TeSys

TeSys Control
Electronically-Controlled Contactors
up to 800 A (AC-3)
Catalog 2025

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se.com/tesys

Life Is On Schneider Electric

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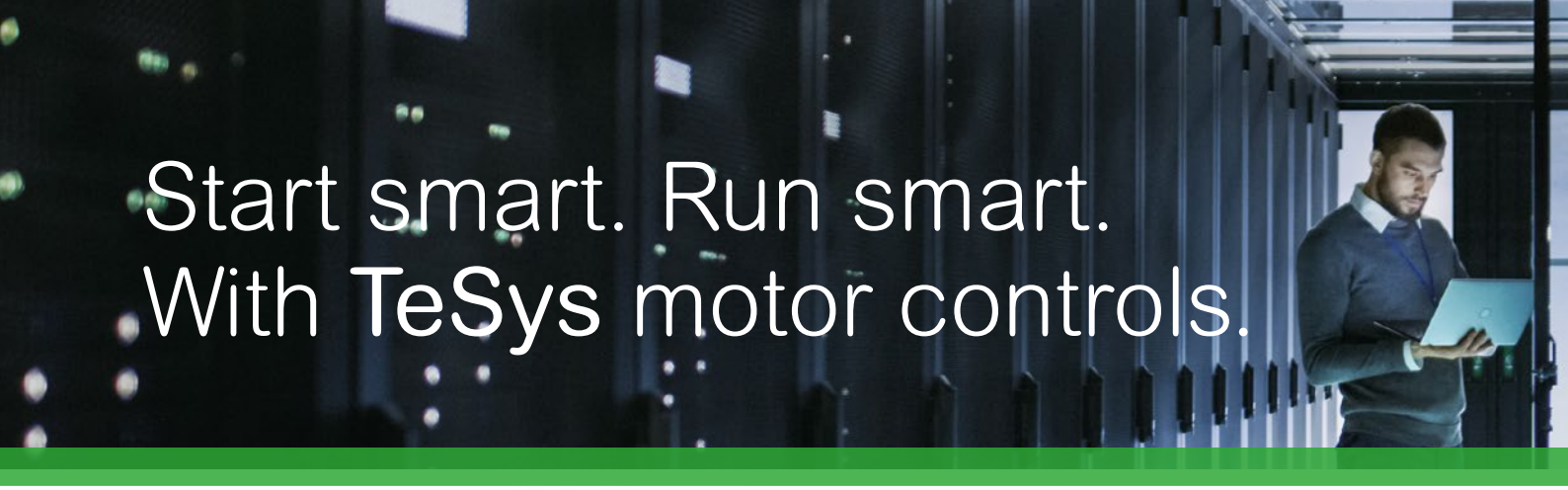


Start smart. Run smart. With **TeSys** motor controls.

Stay smart with the world's best-selling motor control solutions from the inventor of the world's first contactor - Schneider Electric™.

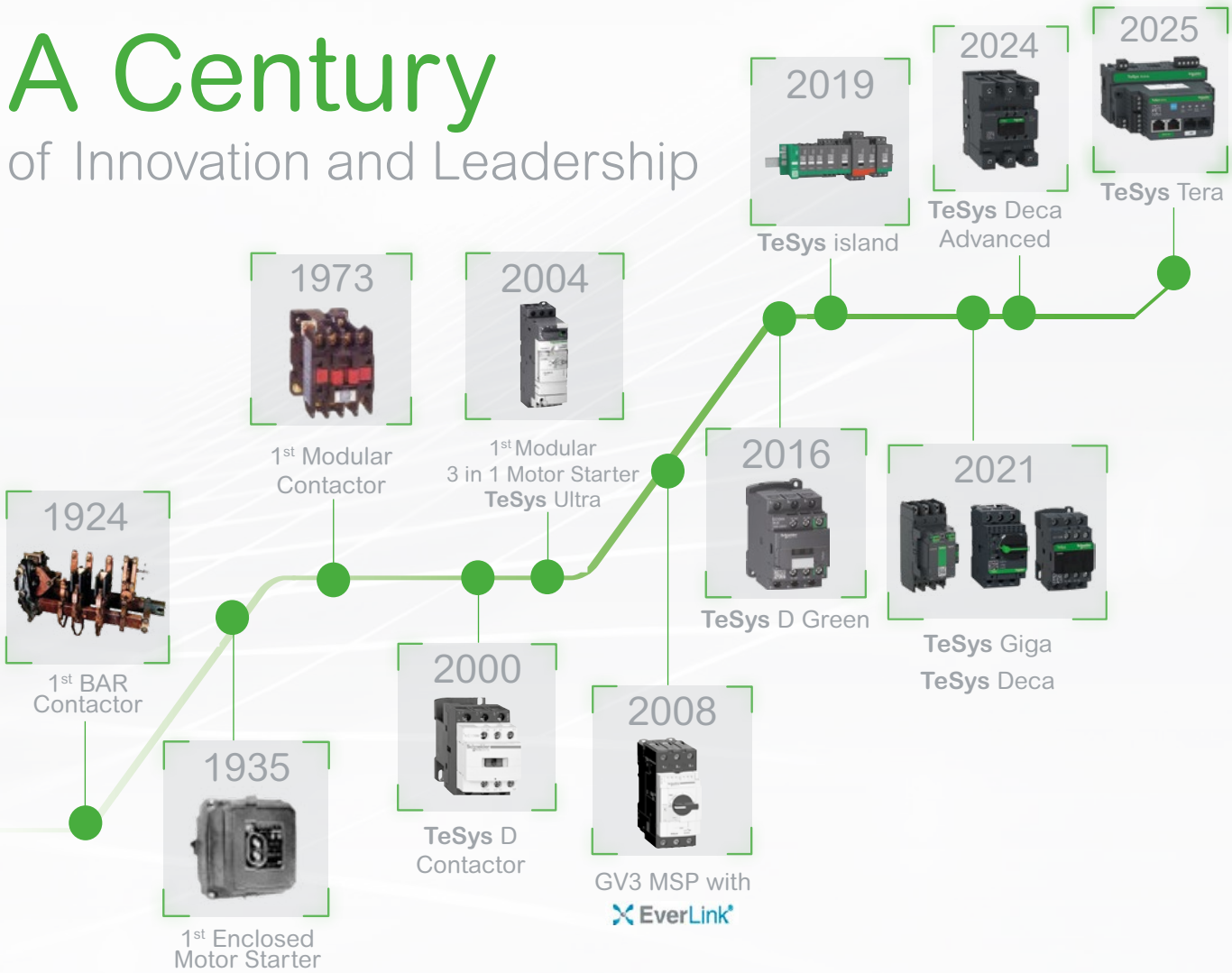
For almost a century, TeSys motor controls have driven the industry with innovations in motor protection, monitoring, and control.

It started with the introduction of the industry's first BAR contactor in 1924, and today, the legacy of innovation is built into every **TeSys** motor control device.

Best-in-class robustness and reliability, plug-and-play architecture, and flexible functionality mean TeSys motor control solutions can meet your requirements across a wide range of applications, from the most common to the most advanced.

A Century

of Innovation and Leadership



Introducing **TeSys** Deca Advanced & **TeSys** Giga

The electronically-controlled contactors series up to 800 A (AC-3e) & 1050 A (AC-1)

From electro-mechanical...

TeSys Deca

TeSys F

9 - 12 - 18 A | 25 - 32 - 38 A | 40 - 50 - 65 - 80 A | 115 - 150 A | 115 - 800 A

to electronically-controlled

TeSys Deca Advanced

TeSys Giga

9 - 12 - 18 A | 25 - 32 - 38 A | 40 - 50 - 65 - 80 A | 115 - 150 A | 115 - 800 A

Enhanced robustness

The adoption of electronic coils in contactors offers a range of benefits that collectively contribute to extending product lifetime and enhancing robustness.
It provides more consistent and reliable operation which helps to reduce stress on mechanical components. The wide-band coil design covers control voltage input from 24 V to 500 V AC/DC, reducing accidental downtime caused by voltage fluctuations and providing conditions for continuous and optimum operation of the load.

Designed for efficiency

Reduced coil power consumption enhances energy efficiency, optimizes operational costs and extends the lifespan of the contactor by minimizing heat generation. That contributes significantly to achieving sustainability goals and promoting environmentally responsible practices. With innovative mechanical architecture supporting a compact product size, these contactors help minimize wiring complexity and optimize panel design, enhancing the overall system efficiency.

Simplified customer journey

The number of commercial references is reduced by **80%**

This makes for simpler, more convenient product selection and inventory management. TeSys complies with multiple global certifications and industry standards and is suitable for various load applications, supported by a high range of accessories.

All applications

Electronically-controlled contactors are suitable for a broad range of applications to provide dependable switching and control, enhancing the system's efficiency and robustness across varied electrical environments.

- Industrial automation
- Heavy machinery
- Building management systems
- Renewable energy systems
- Transportation infrastructure
- ...

Robustness and Efficiency Powered by Electronic Coils

A simple selection of electronic coil

80% reduction in commercial references

TeSys Deca Advanced

BBE: 24 V DC (1)
BNE: 24 V - 60 V AC/DC
EHE: 48 V - 130 V AC/DC
KUE: 100 V - 250 V AC/DC
LSE: 200 V - 500 V AC/DC (2)

TeSys Giga

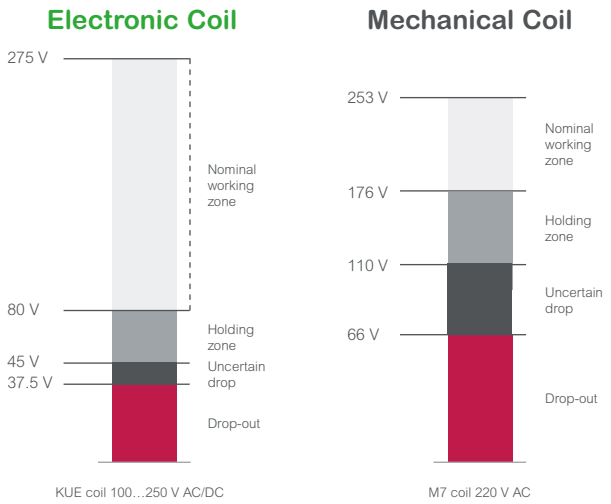
BEE: 24 V - 48 V AC/DC
EHE: 48 V - 130 V AC/DC
KUE: 100 V - 250 V AC/DC
LSE: 200 V - 500 V AC/DC

Ready to connect with PLC

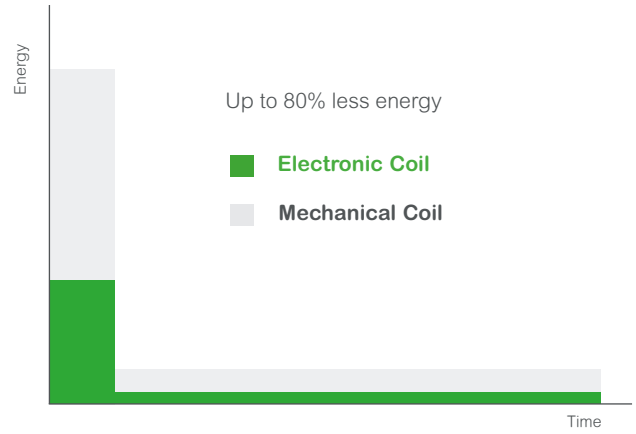
All **TeSys** electronic coils are embedded with an integrated surge suppressor, enhancing its resilience against transient voltage spikes and providing superior protection against electrical surges. **TeSys** Deca Advanced BBE coil (1) and BNE coil (3), **TeSys** Giga BEEA, LSEA & EHEA coils allow direct control by 24 V DC 500 mA PLC-output.

Robustness to thrive through voltage fluctuations

The wide-band coil design exhibits strong resistance to voltage fluctuations, providing robust performance and durability under electrical stress.



Maximized efficiency by minimizing energy consumption



TeSys electronic coil with lower inrush and holding consumption reduces energy usage, minimizes heat generation for enhanced longevity, and improves overall efficiency. This design contributes to operational cost savings and environmental sustainability.

(1) Available for LC1D40A...80A, LC1DT60A...80A
(2) Available for LC1D115A...150A, LC1DT200A
(3) BNE for LC1D09...38

Simplicity Engineered by Product Architecture

Always embed 1 NO + 1 NC auxiliary

TeSys Deca Advanced and **TeSys** Giga are always integrated with 1 NO + 1 NC auxiliaries, enhancing the versatility to support a wider range of control and signaling tasks and thus provide a more cohesive and efficient solution for managing electrical loads.

Simple wiring with all front access to control circuit

TeSys Deca Advanced and **TeSys** Giga are designed with all front access for control circuit wiring and positioning the control circuit in front of the main power lines, This design:

1. Enhances accessibility: simplifies the installation process, making it faster and more straightforward.

2. Improves security: provides easier interactions with the contactor during adjustments or inspections, thus minimizes the need for technicians to reach around or through power lines, reducing the probability of electrical accidents.

3. Increases operational efficiency: allows for a more compact design of electrical panels and control system with easy access even during maintenance or trouble shooting, reducing downtime and labor costs.

Continuing to Innovate for greater Robustness, Efficiency, and Simplicity

Robust and Durable connection EverLink (1)

Power connections are the basis of electrical installations. Reliable connections are critical in terms of protecting installations against electrical fires, which can inadvertently start as a result of poor or loose connections.

Schneider Electric's EverLink™ technology provides a long-lasting connection by mitigating the loosening effects of heat cycling or vibrations. It is achieved by the user tightening the lug around the cable and loading a spring which compensates the loss of space due to creeping effect.

EverLink™ is designed to offer customers peace of mind in terms of maintenance and continuity of service.

Wear diagnosis and predictive maintenance (2)

Contact wear is monitored by a dedicated module and shown in the front panel through LED, as well as under or over control voltage indication.

Therefore, the predictive maintenance can be planned for replacing the complete set of switching modules, thus avoiding breakdown maintenance. Switching modules can be replaced quickly and easily thanks to their Plug and Play design.

(1) EverLink available on TeSys Deca Advanced LC1D40A...150A, LC1DT60A...200A
(2) Wear diagnosis function is embedded on TeSys Giga series

Full load management solution

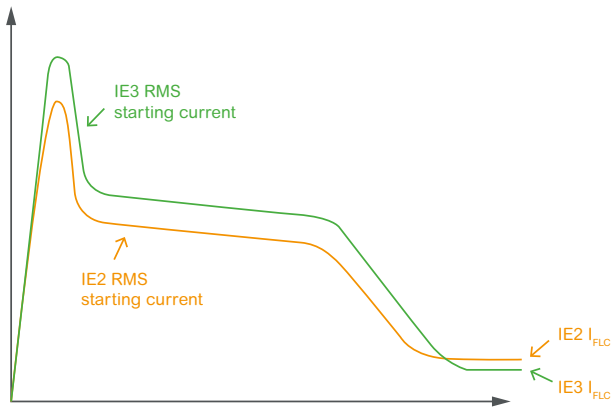
3-pole & 4-pole

TeSys Deca Advanced and **TeSys** Giga are available in both 3-pole and 4-pole versions, which allows that a wide array of power management needs can be met with precision, from standard 3-phase power control to more specialized applications (like power switch) that requires an additional pole for enhanced functionality.

Ideal for high efficiency motor (IE3 & IE4)

As industries move towards more sustainable solutions and high-efficiency motors become more prevalent, having a contactor capable of handling these motors means that infrastructure is already in place to accommodate technological advancements without requiring significant modifications or replacements.

TeSys Deca Advanced and **TeSys** Giga with a higher making capacity can handle the initial inrush current of high-efficiency motors without degradation. This capability reduces wear and tear on the contactor, extending its lifespan and decreasing the need for frequent replacements or maintenance. They support the motor potential for energy savings and reduced operational costs to be fully realized.



New Coming **TeSys** Deca Advanced 115 A - 150 A

TeSys Deca Advanced 115 A - 150 A product references and coding principle

LC1	D	115	A(6)	KUE
Contactor		**AC3 Rating** 115: 115 A 150: 150 A	**Main Terminal** A: EverLink +6: Lug	
TeSys Deca Advanced 3 Poles				
Coil voltage (AC/DC)	BNE: 24...60 V AC/DC EHE: 48...130 V AC/DC KUE: 100...250 V AC/DC LSE: 200...500 V AC/DC			

TeSys Deca Advanced 115 A - 150 A product references and coding principle

LC1	DT	200	A(6)	KUE
Contactor		**AC1 Rating** 200: 200 A	**Main Terminal** A: EverLink +6: Lug	
TeSys Deca Advanced 4 Poles				
Coil voltage (AC/DC)	BNE: 24...60 V AC/DC EHE: 48...130 V AC/DC KUE: 100...250 V AC/DC LSE: 200...500 V AC/DC			

TeSys Deca Advanced core values

Efficient concept

- Reduced coil consumption contributes to sustainability
- Compact size
- Side by side installation allowed
- Optimized accessories design enhances space saving from system level

Robust connection

- Patented EverLink main power terminals avoid maintenance
- By default full IP20 with EverLink

Simple installation

- Front access to control and aux circuits
- Both-side wiring slot for control circuit guidance

Reliable operation

- Withstand wider operation temperature
- Improved robustness under demanding environment (e.g. dust, humidity, shock...)

New Coming High Reliability Auxiliary Contact Blocks

TeSys Deca auxiliary contact blocks for use in harsh industrial environment

Product references: coding principle

LA	D	N	22	R

- LA: Accessory
- D: TeSys Deca
- N: Type:
  - 11: 1NO + 1NC
  - 20: 2NO
  - 40: 4NO
  - 31: 3NO + 1NC
  - 22: 2NO + 2NC
- 22
- R: Reliability PRO

Note: There are differences in NO/NC position between LADN●●R and LADN●●. Please refer to page A1/42 for wiring diagram details.
This auxiliary module only supports the installation on contactors with standard power consumption.

Product core values

Dustproof, Ultra-fine grain silver contacts, Improved Reliability, 17 V/1 mA

New upgrade, with innovative design

20% stability increased on contacts
Improves contact reliability between mobile and static contacts

Fully sealed design benefits on reduced dust access
Comprehensive blocking of dust and external pollution

5X granularity refinement on silver alloy
Innovative binary alloy refinement process provides precise conduction for each operation

10^{-8} level on reliability
Capacity 17 V/1 mA

Target industries and applications

- For elevator, textile machinery and other harsh industrial applications
- For low voltage and low current high sensitive applications

Product variants:

LADN11R

LADN20R

LADN22R

LADN31R

LADN40R

Guideline for product upgrading

Existing products	
LADN•• Standard applications 17 V/5 mA	
Product type	**Product description**
LADN11	Auxiliary module 1NO+1NC, screw terminals
LADN20	Auxiliary module 2NO, screw terminals
LADN22	Auxiliary module 2NO + 2NC, screw terminals
LADN31	Auxiliary module 3NO + 1NC, screw terminals
LADN40	Auxiliary module 4NO, screw terminals

New products	
LADN••R for harsh environment 17 V/1 mA	
Product type	**Product description**
LADN11R	Auxiliary module 1NO +1NC, screw terminals
LADN20R	Auxiliary module 2NO, screw terminals
LADN22R	Auxiliary module 2NO + 2NC, screw terminals
LADN31R	Auxiliary module 3NO + 1NC, screw terminals
LADN40R	Auxiliary module 4NO, screw terminals

On-line tools to configure your **motor starters**

EcoStruxureTM Motor Control Configurator

Scan or click
on the QR code

Build your starter configuration

- Build your motor starter configuration with different solutions
- Complete offer base suited for different countries.

Enhanced customer's journey

- Easy selection, replacing complex paper catalogs
- Covert into Bill of Materials (BoM) by adding the products to the cart.

Answers to customer needs

- Option to save and re-work your configurations
- Direct access to products documentation in one place
- Possibility with unique configurations ID and share.

Product Selector for TeSys Contactors

TeSys Deca
Scan or click
on the QR code

TeSys Giga
Scan or click
on the QR code

Offer selection

- Easy selection of **TeSys** Control contactors
- Intuitive tool to configure the devices to suit your needs
- Helps to select the right devices for your application.

Configure your motor starter components

- Options to select auxiliaries and accessories
- Configure reversers and changeover contactors with ease
- Get the extensive bill of material, export it in standard format (PDF, XLS), or drop it into the product cart
- Access to technical information and documentations for every item.

EcoStruxure Motor Management Design

Scan or click
on the QR code

Electrical design calculations for high-power motors

Easily perform basic calculations related to transformer size, short-circuit current and voltage drop, comparing direct-on-line, Star-Delta, soft-starter, and variable speed drive. Verify starting feasibility from mechanical standpoint and allows power quality objectives to be met, for power factor or harmonic levels. Check energy saving potential of using a variable speed drive for centrifugal pumps and fans.

Offer selection and report

Select among latest compatible offers to build a complete motor management solution: circuit breakers, contactors, MCC panels, drives, protection relays, power factor capacitors, active filters, power quality monitoring and services.
Get a summary report with calculations and recommended offers.

General Contents

Electronically-Controlled Contactors up to 800 A (AC-3)

A1

TeSys Deca Advanced Contactors

A2

TeSys Giga High Power Contactors

A3

Complementary Technical Information

TeSys Control
Deca Advanced Contactors

Product reference - coding principle

> **TeSys** Deca Advanced Contactors

LC1	D	09	A(6)	KUE
Contactor **TeSys** Deca Advanced series, 3P		**AC3 Rating** 09: 09 A 12: 12 A 18: 18 A 25: 25 A 32: 32 A 38: 38 A 40: 40 A 50: 50 A 65: 65 A 80: 66 A 115: 115 A 150: 150 A	**Main Terminal** Blank: Screw A: EverLink +6: Lug	**Coil voltage (AC/DC)** BBE(1): 24 V DC BNE: 24…60 V AC/DC EHE: 48…130 V AC/DC KUE: 100…250 V AC/DC LSE(2): 200…500 V AC/DC

(1) BBE only for LC1D40A…D80A
(2) LSE only for LC1D115A…D150A

LC1	DT	200	A(6)	KUE
Contactor **TeSys** Deca Advanced series, 4P		**AC1 Rating** 60: 60 A 80: 80 A 200: 200 A	**Main Terminal** A: EverLink +6: Lug	**Coil voltage (AC/DC)** BBE(3): 24 V DC BNE: 24…60 V AC/DC EHE: 48…130 V AC/DC KUE: 100…250 V AC/DC LSE(4): 200…500 V AC/DC

(3) BBE only for LC1DT60A…DT80A
(4) LSE only for LC1DT200A

Introduction

Reliability with efficiency and simplicity

TeSys Deca Advanced
One step further to a sustainable future

For decades, **TeSys** Deca has set the standard for reliable motor management, powering millions of motors and loads across more than 50 countries.

However, today's industries are facing new challenges: climate change, escalating energy costs, and constantly changing industrial standards.
Our customers are under pressure to reduce operating costs, speed up engineering, and minimize complexity, all while adhering to stricter regulations.

TeSys Deca Advanced contactors are designed to meet these challenges head-on.

With new technologies and innovative architecture, this advanced series aims to simplify the customer journey from design to maintenance. Whether you're looking to streamline installation, increase operational efficiency, or boost reliability, **TeSys** Deca Advanced delivers.

In a world where efficiency and reliability are paramount, **TeSys** Deca Advanced stands out as a trusted partner for load management. Choose **TeSys** Deca Advanced to meet today's challenges and prepare for tomorrow's opportunities.

Key values and features

Easy selection
With only five wide-band coil references, the **TeSys** Deca Advanced contactors cover the entire voltage range from 24 to 500 V for both AC and DC applications. This streamlined selection process ensures you can quickly and easily find the right component for your needs, saving you time and reducing complexity in inventory management.

Compact & robust
The **TeSys** Deca Advanced contactors deliver top-tier performance, including robust durability and rigorous industrial environments withstand, within a compact footprint. This combination of performance and space-saving design allows for more flexibility in system layouts and applications.

Ready for digitalization
Designed for seamless integration, the **TeSys** Deca Advanced contactors offer BNE & BBE coil that can connect directly to a PLC without requiring additional interface relays for loads up to 80 A. This feature simplifies wiring, reduces installation time, leading to a more efficient system setup.

Superior Uptime
Reliability is a hallmark of the **TeSys** Deca Advanced series. The wide-band coil has high resistance to voltage surges which helps ensure high uptime, reducing the probability of unexpected downtime and associated costs.

More sustainability
The low-consumption coil in the **TeSys** Deca Advanced contactors uses up to 80% less energy compared to traditional electromechanical contactors. This significant reduction in energy usage not only contributes to lower operating costs but also supports sustainability goals by reducing your overall carbon footprint.

Introduction

EverLink Connection (1) for main power robust connection throughout product lifetime

Wiring slot for control cable guidance

Front face A1 - A2 control circuit terminal

Built-in 1 NO + 1 NC auxiliary contact block

Unique QR code providing quick access to complete product data

TeSys Deca Advanced contactors


9…18 A


25…38 A


40…80 A


115…150 A

Power & switch

- 3 or 4 power poles
- 9 to 150 A (AC-3/AC-3e)
- 25 to 200 A (AC-1)
- Embedded 1 NO + 1 NC auxiliary contacts
- Patent EverLink main power terminals (1)

Efficient design

- Low consumption coils
- High rating within compact size
- Ready for IE3/IE4 high efficiency motor

Remote control

- 24 V DC (2), 24…60 V, 48…130 V, 100…250 V, 200…500 V (3) AC/DC coils
- PLC direct control available (4)
- High resistance to voltage fluctuation
- Embedded surge suppressor

Standards & Certifications

- Multiple standards
- International certifications

(1) For LC1D40A…D150A.
(2) BBE coil for LC1D40A…D80A for PLC direct input.
(3) LSE coil for LC1D115A…D150A.
(4) BNE coil for LC1D09…D38, BBE coil for LC1D40A...D80A.

Introduction

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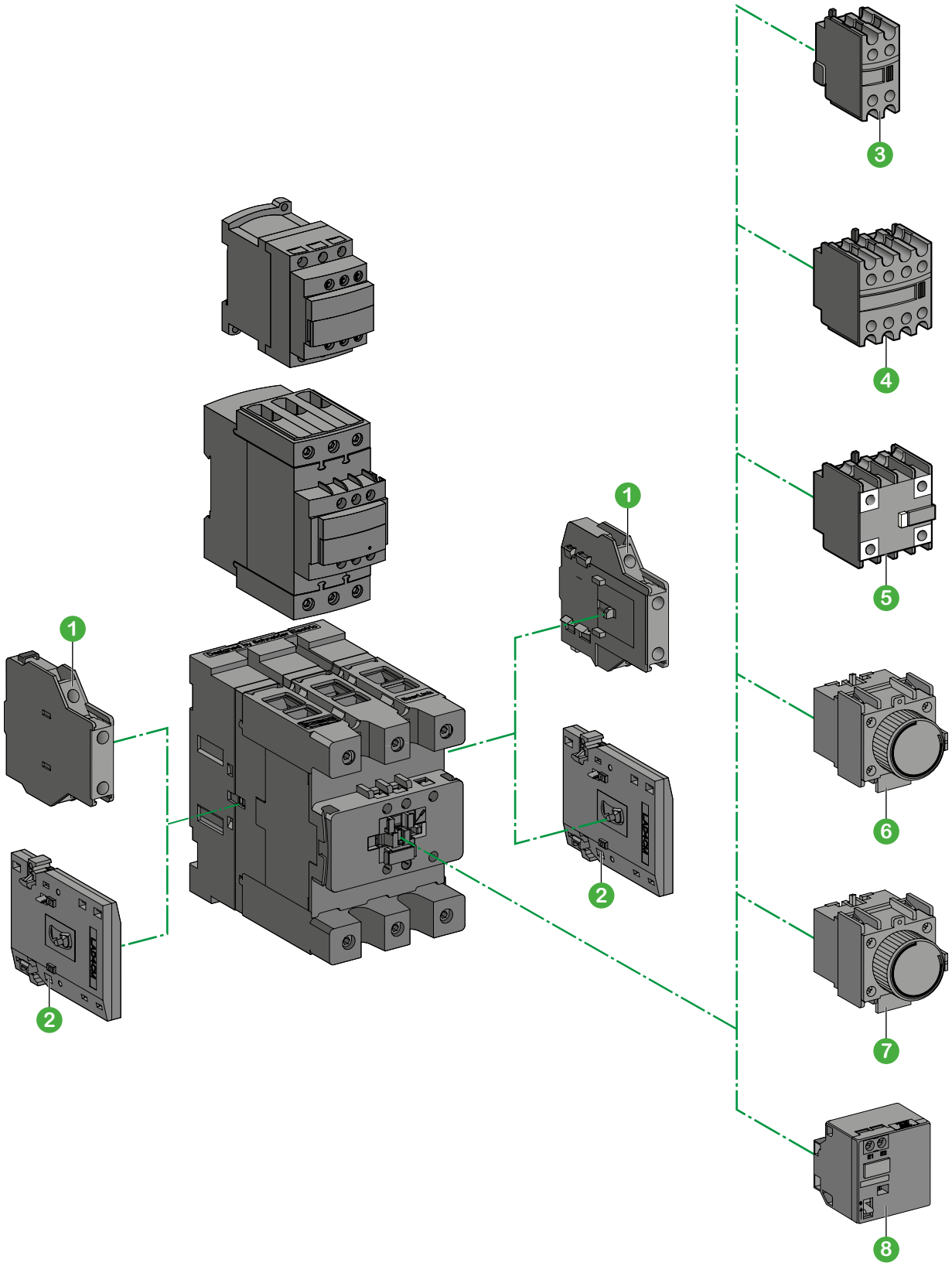


1 Side-mounted auxiliary block, please refer to pages A1/14 and A1/15.
2 Mechanical interlock, please refer to page A1/20.
3 4 5 Front-mounted auxiliary block, please refer to pages A1/14 and A1/15.
6 7 Time delay auxiliary contact blocks, please refer to pages A1/16 and A1/17.
8 Mechanical latch blocks, please refer to pages A1/16 and A1/17.

TeSys Deca Advanced 3-pole contactors - For motor control (9 to 150 A)




Motor ratings (kW) θ ≤ 60 °C												Reference [1]				
IEC												3-pole				
AC-3							AC-3e [1]									
230 V	400 V	415 V	440 V	500 V	690 V	230 V	400 V	415 V	440 V	500 V	690 V	24 V DC [2]	24…60 V [2]	48…130 V	100…250 V	200…500 V
kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW					
2.2	4	4	4	5.5	5.5	2.2	4	4	4	5.5	5.5		LC1D09BNE	LC1D09EHE	LC1D09KUE	
3	5.5	5.5	5.5	7.5	7.5	3	5.5	5.5	5.5	7.5	7.5		LC1D12BNE	LC1D12EHE	LC1D12KUE	
4	7.5	9	9	10	10	4	7.5	9	9	10	10		LC1D18BNE	LC1D18EHE	LC1D18KUE	
5.5	11	11	11	15	15	5.5	11	11	11	15	15		LC1D25BNE	LC1D25EHE	LC1D25KUE	
7.5	15	15	15	18.5	18.5	7.5	15	15	15	18.5	18.5		LC1D32BNE	LC1D32EHE	LC1D32KUE	
9	18.5	18.5	18.5	18.5	18.5	9	18.5	18.5	18.5	18.5	18.5		LC1D38BNE	LC1D38EHE	LC1D38KUE	
11	18.5	22	22	22	30	11	18.5	22	22	22	30	LC1D40A(6)BBE	LC1D40A(6)BNE	LC1D40A(6)EHE	LC1D40A(6)KUE	
15	22	25	30	30	33	15	22	25	30	30	33	LC1D50A(6)BBE	LC1D50A(6)BNE	LC1D50A(6)EHE	LC1D50A(6)KUE	
18.5	30	37	37	37	37	18.5	30	37	37	37	37	LC1D65A(6)BBE	LC1D65A(6)BNE	LC1D65A(6)EHE	LC1D65A(6)KUE	
22	37	37	37	37	37	22	37	37	37	37	37	LC1D80A(6)BBE	LC1D80A(6)BNE	LC1D80A(6)EHE	LC1D80A(6)KUE	
30	55	59	59	75	80	30	55	59	59	75	80		LC1D115A(6)BNE	LC1D115A(6)EHE	LC1D115A(6)KUE	LC1D115A(6)LSE
40	75	80	90	90	100	40	75	80	90	90	100		LC1D150A(6)BNE	LC1D150A(6)EHE	LC1D150A(6)KUE	LC1D150A(6)LSE

(1) For screw terminal type, no need of "6" in the commercial reference. For lug terminal type, add "6" in the commercial reference, before the coil code. For example, LC1D40ABBE is for screw terminal, LC1D40A6BBE is for lug type terminal. For reverser contactors LC2D, please see pages A1/9 to A1/12.

Motor ratings (kW) θ ≤ 60 °C						Motor ratings (HP)				Reference [1]				
IEC						UL - 3phase				3-pole				
AC-4														
230 V	400 V	415 V	440 V	500 V	690 V	200/208 V	230/240 V	460/480 V	575/600 V	24 V DC [2]	24…60 V [2]	48…130 V	100…250 V	200…500 V
kW	kW	kW	kW	kW	kW	Hp	Hp	Hp	Hp					
2.2	4	4	4	5.5	5.5	2	2	5	7.5		LC1D09BNE	LC1D09EHE	LC1D09KUE	
3	5.5	5.5	5.5	7.5	7.5	3	3	7.5	10		LC1D12BNE	LC1D12EHE	LC1D12KUE	
4	7.5	9	9	10	10	5	5	10	15		LC1D18BNE	LC1D18EHE	LC1D18KUE	
5.5	11	11	11	15	15	7.5	7.5	15	20		LC1D25BNE	LC1D25EHE	LC1D25KUE	
7.5	15	15	15	18.5	18.5	10	10	20	25		LC1D32BNE	LC1D32EHE	LC1D32KUE	
9	18.5	18.5	18.5	18.5	18.5	10	10	20	25		LC1D38BNE	LC1D38EHE	LC1D38KUE	
11	18.5	22	22	22	30	10	10	30	30	LC1D40A(6)BBE	LC1D40A(6)BNE	LC1D40A(6)EHE	LC1D40A(6)KUE	
15	22	25	30	30	33	15	15	40	40	LC1D50A(6)BBE	LC1D50A(6)BNE	LC1D50A(6)EHE	LC1D50A(6)KUE	
18.5	30	37	37	37	37	20	20	40	50	LC1D65A(6)BBE	LC1D65A(6)BNE	LC1D65A(6)EHE	LC1D65A(6)KUE	
22	37	37	37	37	37	20	20	40	50	LC1D80A(6)BBE	LC1D80A(6)BNE	LC1D80A(6)EHE	LC1D80A(6)KUE	
30	55	55	55	63	65	30	40	75	100		LC1D115A(6)BNE	LC1D115A(6)EHE	LC1D115A(6)KUE	LC1D115A(6)LSE
37	75	75	75	75	80	40	50	100	125		LC1D150A(6)BNE	LC1D150A(6)EHE	LC1D150A(6)KUE	LC1D150A(6)LSE

(1) For screw terminal type, no need of "6" in the commercial reference. For lug terminal type, add "6" in the commercial reference, before the coil code. For example, LC1D40ABBE is for screw terminal, LC1D40A6BBE is for lug type terminal. For reverser contactors LC2D, please see pages A1/9 to A1/12.
(2) LC1D40A…D80ABBE & LC1D09…D38BNE for PLC direct control.

TeSys Deca Advanced 3-pole and 4-pole contactors - For load control (non-motor, 25 to 200 A)

Maximum current (A) (θ ≤ 60 °C)	General purpose continuous current (A)	Reference (1)									
		3-pole					4-pole				
IEC AC-1	UL	24 V DC (2)	24…60 V (2)	48…130 V	100…250 V	200…500 V	24 V DC (2)	24…60 V (2)	48…130 V	100…250 V	200…500 V
25	25		LC1D09BNE	LC1D09EHE	LC1D09KUE						
25	25		LC1D12BNE	LC1D12EHE	LC1D12KUE						
32	32		LC1D18BNE	LC1D18EHE	LC1D18KUE						
40	40		LC1D25BNE	LC1D25EHE	LC1D25KUE						
50	50		LC1D32BNE	LC1D32EHE	LC1D32KUE						
50			LC1D38BNE	LC1D38EHE	LC1D38KUE						
60	60	LC1D40A(6)BBE	LC1D40A(6)BNE	LC1D40A(6)EHE	LC1D40A(6)KUE		LC1DT60A(6)BBE	LC1DT60A(6)BNE	LC1DT60A(6)EHE	LC1DT60A(6)KUE	
80	70	LC1D50A(6)BBE	LC1D50A(6)BNE	LC1D50A(6)EHE	LC1D50A(6)KUE						
80	80	LC1D65A(6)BBE	LC1D65A(6)BNE	LC1D65A(6)EHE	LC1D65A(6)KUE						
80	80	LC1D80A(6)BBE	LC1D80A(6)BNE	LC1D80A(6)EHE	LC1D80A(6)KUE		LC1DT80A(6)BBE	LC1DT80A(6)BNE	LC1DT80A(6)EHE	LC1DT80A(6)KUE	
200	160		LC1D115A(6)BNE	LC1D115A(6)EHE	LC1D115A(6)KUE	LC1D115A(6)LSE		LC1DT200A(6)BNE	LC1DT200A(6)EHE	LC1DT200A(6)KUE	LC1DT200A(6)LSE
200	160		LC1D150A(6)BNE	LC1D150A(6)EHE	LC1D150A(6)KUE	LC1D150A(6)LSE					

(1) For screw terminal type, no need of "6" in the commercial reference. For lug terminal type, add "6" in the commercial reference, before the coil code. For example, LC1D40ABBE is for screw terminal, LC1D40A6BBE is for lug type terminal. For reverser contactors LC2D, please see pages A1/9 to A1/12.
(2) LC1D40A…D80ABBE & LC1DT60A...DT80ABBE & LC1D09…D38BNE for PLC direct control.


LC1D09●●●


LC1D40A●●●


LC1D115A●●●

Deca Advanced contactors have a dark grey casing and a 3-character code voltage.

3-pole & 4-pole contactors - Motor control up to 37 kW/400 V - Category AC-3/AC-3e

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3/AC-3e (θ ≤ 60 °C)						Rated operational current in AC-3/AC-3e 440 V up to	Instantaneous auxiliary contacts		Basic reference, to be completed by adding the control voltage code [1] / Fixing [2]	Weight
220 V 230 V	380 V 400 V	415 V	440 V	500 V	660 V 690 V					
kW	kW	kW	kW	kW	kW	A				kg
Connection by screw clamp terminals										
2.2	4	4	4	5.5	5.5	9	1	1	**LC1D09●●●**	0.368
3	5.5	5.5	5.5	7.5	7.5	12	1	1	**LC1D12●●●**	0.373
4	7.5	9	9	10	10	18	1	1	**LC1D18●●●**	0.378
5.5	11	11	11	15	15	25	1	1	**LC1D25●●●**	0.433
7.5	15	15	15	18.5	18.5	32	1	1	**LC1D32●●●**	0.438
9	18.5	18.5	18.5	18.5	18.5	38	1	1	**LC1D38●●●**	0.442
Power connections by EverLink® BTR [3] screw connectors and control by screw clamp terminal										
11	18.5	22	22	22	30	40	1	1	**LC1D40A●●●, LC1DT60A●●●** [4]	0.992
15	22	25	30	30	33	50	1	1	**LC1D50A●●●**	0.997
18.5	30	37	37	37	37	65	1	1	**LC1D65A●●●**	1.002
22	37	37	37	37	37	66	1	1	**LC1D80A●●●, LC1DT80A●●●** [4]	1.002
30	55	59	59	75	80	115	1	1	**LC1D115A●●●, LC1DT200A●●●**	2.600
40	75	80	90	90	100	150	1	1	**LC1D150A●●●**	2.600
Connection for lugs or bars										

For LC1D40A to LC1D150A, insert a figure 6 before the voltage code.
Example: LC1D40A●●● becomes LC1D40A6●●●

Auxiliary contact blocks and add-on modules

See pages A1/14 to A1/19.

Control voltage codes

AC/DC or 24 V DC supply

Volts	24 (PLC control)	24…60	48…130	100…250	200…500
LC1D09 ...D38					
U 0.85...1.1 Uc	BNE	BNE	EHE	KUE	
LC1D40A ... D80A					
U 0.85...1.1 Uc	BBE [5]	BNE	EHE	KUE	
LC1D115A…150A					
U 0.8…1.1 Uc		BNE	EHE	KUE	LSE

(1) Please check the availability of your variant in the index page A1/23.The SEARCH function of your viewer can be used.
*(2) **LC1D09** to **D80A**: clip-on mounting on 35 mm ⊔ rail **NSYSDR** or screw fixing.*
(3) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference LADALLEN4, please refer to page A1/19).
(4) AC-3 category for LC1DT60A & LC1DT80A. For AC-3e category please contact your technical support.
(5) BBE: U 0.8…1.2 Uc.


LC1D09BNE.eps

LC1D09●●●


LC1D40ABNE.eps

LC1D40A●●●


LC1DT60ABNE.eps

LC1DT60A●●●


LC1DT200ABNE_Image.eps

LC1DT200A●●●

Deca Advanced contactors have a dark grey casing and a 3-character code voltage.

3-pole contactors - Load control from 25 to 200 A - Category AC-1

Non inductive loads maximum current ($\theta \leq 60$ °C) utilisation category AC-1	Number of poles	Instan-taneous auxiliary contacts		Partial reference, to be completed by adding the control voltage code (1)	Weight
				Fixing (2)	
A					kg
Connection by screw clamp terminals					
25	3	1	1	**LC1D09●●●**	0.368
				or **LC1D12●●●**	0.373
32	3	1	1	**LC1D18●●●**	0.378
40	3	1	1	**LC1D25●●●**	0.433
50	3	1	1	**LC1D32●●●**	0.438
				or **LC1D38●●●**	0.442
Connection by EverLink®, BTR screw connectors (3)					
60	3	1	1	**LC1D40A●●●**	0.992
80	3	1	1	**LC1D50A●●●**	0.997
				or **LC1D65A●●●** (4)	1.002
				or **LC1D80A●●●** (4)	1.002
200	3	1	1	**LC1D115A●●●**	2.600
				or **LC1D150A●●●**	2.600
Connection for lugs or bars					

For LC1D40A to LC1D150A, insert a figure 6 before the voltage code.
Example: LC1D40A●●● becomes LC1D40A6●●●

4-pole contactors

Connection by EverLink®, BTR (3) screw connectors					
60	4	1	1	**LC1DT60A●●●**	1.230
80	4	1	1	**LC1DT80A●●●**	1.290
200	4	1	1	**LC1DT200A●●●**	3.300
Connection for lugs or bars					

For LC1DT60A to LC1DT200A, insert a figure 6 before the voltage code.
Example: LC1DT60A●●● becomes LC1DT60A6●●●

Control voltage codes

AC/DC or 24 V DC supply

Volts	24 (PLC control)	24…60	48…130	100…250	200…500
LC1D09 .... D38					
U 0.8 .... 1.2 Uc	BNE	BNE	EHE	KUE	
LC1D40 to LC1D80A, LC●DT60A to LC●DT80A					
U 0.85...1.1 Uc	BBE (5)	BNE	EHE	KUE	
LC1D115A to 150A, LC1DT200A					
U 0.8…1.1 Uc		BNE	EHE	KUE	LSE

(1) Please check the availability of your variant in the index page A1/23 The SEARCH function of your viewer can be used.
*(2) **LC1D09** to **D80A**, **LC●DT60A** and **LC●DT80A**: clip-on mounting on 35 mm ⊥⊥ rail **NSYSDR** or screw fixing.*
*(3) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference **LADALLEN4**, please refer to page A1/19).*
(4) Coordination tables according to the number of operation cycles, consult online datasheets for values.
(5) BBE: U 0.8…1.2 Uc.


LC1D09BNE.eps

LC1D09●●●


LC1D40ABNE.eps

LC1D40A●●●


LC1D115ALSE_image.eps

LC1D115A●●●

Deca Advanced contactors have a dark grey casing and a 3-character code voltage.

3-pole contactors conforming to UL and CSA standards (North American market) - 25 to 200 A

Standard power ratings of motors 50/60 Hz						Associated cable type 75 °C-Cu	Continuous current	Type of contactor required Partial reference, to be completed by adding the control voltage code [1]
Single-phase 1 Ø		3-phase 3 Ø						Fixing, connection [2]
115 V	230 V 240 V	200 V 208 V	230 V 240 V	460 V 480 V	575 V 600 V			
HP	HP	HP	HP	HP	HP		A	
Connection by screw clamp terminals								
1/3	1	2	2	5	7.5	AWG 18 - 10	25	**LC1D09●●●**
0.5	2	3	3	7.5	10	AWG 18 - 10	25	**LC1D12●●●**
1	3	5	5	10	15	AWG 18 - 8	32	**LC1D18●●●**
2	3	7.5	7.5	15	20	AWG 14 - 6	40	**LC1D25●●●**
2	5	10	10	20	25	AWG 14 - 6	50	**LC1D32●●●**
Power connections by EverLink® BTR [3] screw connectors								
3	5	10	10	30	30	AWG 16 - 2	60	**LC1D40A●●●**
3	7.5	15	15	40	40	AWG 16 - 2	70	**LC1D50A●●●**
5	10	20	20	40	50	AWG 16 - 2	80	**LC1D65A●●●**
5	10	20	20	40	50	AWG 16 - 2	80	**LC1D80A●●●**
		30	40	75	100	AWG 8 - 250kcmil	160	**LC1D115A●●●**
		40	50	100	125	AWG 8 - 250kcmil	160	**LC1D150A●●●**

Connection for lugs or bars

For LC1D40A to LC1D150A, insert a figure 6 before the voltage code.
Example: LC1D40A●●● becomes LC1D40A6●●●

Applications with High-Fault Short-Circuit Current ratings

High-fault short-circuit current ratings are: 100 kA at 600 V with Class J fuses and 85 kA (D09…D38), 100 kA (D40A…D65A, D115A…D150A) at 480 V and 50 kA at 600 V with circuit breakers.

Control voltage codes

AC/DC or 24 V DC supply

Volts	24 (PLC control)	24-60	48-130	100-250	200…500
LC1D09 ... D32					
U 0.85 .... 1.1 Uc	BNE	BNE	EHE	KUE	
LC1D40A ... D80A					
U 0.85...1.1 Uc	BBE [4]	BNE	EHE	KUE	
LC1D115A to 150A					
U 0.8…1.1 Uc		BNE	EHE	KUE	LSE

(1) Please check the availability of your variant in the index page A1/23. The SEARCH function of your viewer can be used.
*(2) **LC1D09** to **D80**: clip-on mounting on 35 mm ⊔ rail **NSYSDR** or screw fixing.*
*(3) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference **LADALLEN4**, please refer to page A1/19).*
(4) BBE: U 0.8…1.2 Uc.

LC2D09BNE.eps

LC2D40ABNE.eps

Deca Advanced contactors have a dark grey casing and a 3-character code voltage.

3-pole reversing contactors - Motors up to 37 kW / 400 V in category AC-3/AC-3e

Pre-wired power connections

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3/AC-3e (θ ≤ 60 °C)						Rated operational current in AC-3/AC-3e 440 V up to	Instantaneous auxiliary contacts per contactor		Contactors supplied with coil Partial reference, to be completed by adding the control voltage code [1] Fixing [2]	Weight
220 V 230 V	380 V 400 V	415 V	440 V	500 V	660 V 690 V					
kW	kW	kW	kW	kW	kW	A				kg
With mechanical interlock, without electrical interlocking, for connection by screw clamp terminals or Everlink BTR screw connectors [3] [4]										
2.2	4	4	4	5.5	5.5	9	1	1	**LC2D09●●●**	0.783
3	5.5	5.5	5.5	7.5	7.5	12	1	1	**LC2D12●●●**	0.793
4	7.5	9	9	10	10	18	1	1	**LC2D18●●●**	0.803
5.5	11	11	11	15	15	25	1	1	**LC2D25●●●**	0.913
7.5	15	15	15	18.5	18.5	32	1	1	**LC2D32●●●**	0.923
9	18.5	18.5	18.5	18.5	18.5	38	1	1	**LC2D38●●●**	0.933
11	18.5	22	22	22	30	40	1	1	**LC2D40A●●●** [3]	2.154
15	22	25	30	30	33	50	1	1	**LC2D50A●●●** [3]	2.164
18.5	30	37	37	37	37	65	1	1	**LC2D65A●●●** [3]	2.174
22	37	37	37	37	37	66	1	1	**LC2D80A●●●** [3]	2.174

Auxiliary contact blocks and add-on modules

See pages A1/14 to A1/19.

Coil voltage codes

AC/DC or 24 V DC supply

Volts	24 (PLC control)	24-60	48-130	100-250
LC2D09...D32, LC2D40A ... D80A				
U 0.85...1.1 Uc		BNE	EHE	KUE
LC2D09...D38				
U 0.85...1.1 Uc	BNE			
LC2D40A ...D80A				
U 0.8...1.1 Uc	BBE			

(1) Please check the availability of your variant in the index page A1/23. The SEARCH function of your viewer can be used.
*(2) **LC2D09** to **D80A**: clip-on mounting on 35 mm ⊥ rail **NSYSDR** or screw fixing.*
*(3) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference **LADALLEN4**, please refer to page A1/19).*
(4) Electrical interlocking is recommended when 2 orders (direct and reverse) could appear at the same time.

Deca Advanced contactors - Coordination with PLC output modules (static/relay/triac)

Selection of PLC coordinated contactors

Laboratory tests have been carried out in order to validate trouble free contactor closings and openings with different PLC output modules.
The coil must be defined according to the contactor rating range and output module.
See selection table below.

The PLC your are using				>>>	Compatible contactors (1)	Coil code
PLC type	**Output type**	**Output I (A)**	**Output module commercial reference**			
M221 / M241 / M251	Static output: 24 V DC	0.5	TM3DQ8●●● and Q16●●● (T, TG, U, UG)	>>>	LC1D09●● to LC1D38●●,	BL, BNE
					LC1D40A●●● to LC1D80A●●●, LC1DT60A●●● to LC1DT80A●●●	BBE
		0.3 (sealed) 0.8 (inrush)	TM3XTYS4	>>>	LC1D40A●●● to LC1D80A●●●, LC1DT60A●●● to LC1DT80A●●●	BBE, BD, BNE
		0.1	TM3DQ16●● and Q32●● (TK, UK)	>>>	LC1D09●● to LC1D38●●	BL
	Relay output: 24 V DC / 230 V AC	2	TM3DQ8 and DQ16 (R,RG), TM3DM8 and DM24 (R,RG)	>>>	LC1D09●● to LC1D38●●, LC1D40A●●● to LC1D80A●●●, LC1DT60A●●● to LC1DT80A●●●	Code of any DC coil up to 24 V or any AC coil up to 230 V
M340 / M580	Static output: 24 V DC	0.5	BMXDDO1602 and DM16022	>>>	LC1D09●● to LC1D38●●	BL, BNE
					LC1D40A●●● to LC1D80A●●●, LC1DT60A●●● to LC1DT80A●●●	BBE
		0.1	BMXDDO3202, BMXDDM3202K, BMXDDO6402K	>>>	LC1D09●● to LC1D38●●	BL
	Relay output: 24 V DC / 230 V AC	2	BMXDRA0805H and DM16025	>>>	LC1D09●● to LC1D38●●, LC1D40A●●● to LC1D80A●●●, LC1DT60A●●● to LC1DT80A●●●	Code of any DC coil up to 24 V or any AC coil up to 230 V
	Triac output: 230 V AC	0.6	BMXDAO1605	>>>	LC1D09●● to LC1D38●●, LC1D40●●● to LC1D80A●●●, LC1DT60A●●● to LC1DT80A●●●	Code of any AC coil up to 230 V (P7 code = 230 V)
ADVANTYS	Static output: 24 V DC	0.5	STBDDO3200K	>>>	LC1D09●● to LC1D38●●	BL, BNE
					LC1D40A●●● to LC1D80A●●●, LC1DT60A●●● to LC1DT80A●●●	BBE
	Triac output: 230 V AC	2	STBDAO8210K	>>>	LC1D09●● to LC1D38●●, LC1D40A●●● to LC1D80A●●●, LC1DT60A●●● to LC1DT80A●●●	Code of any AC coil up to 230 V (P7 code = 230 V AC)

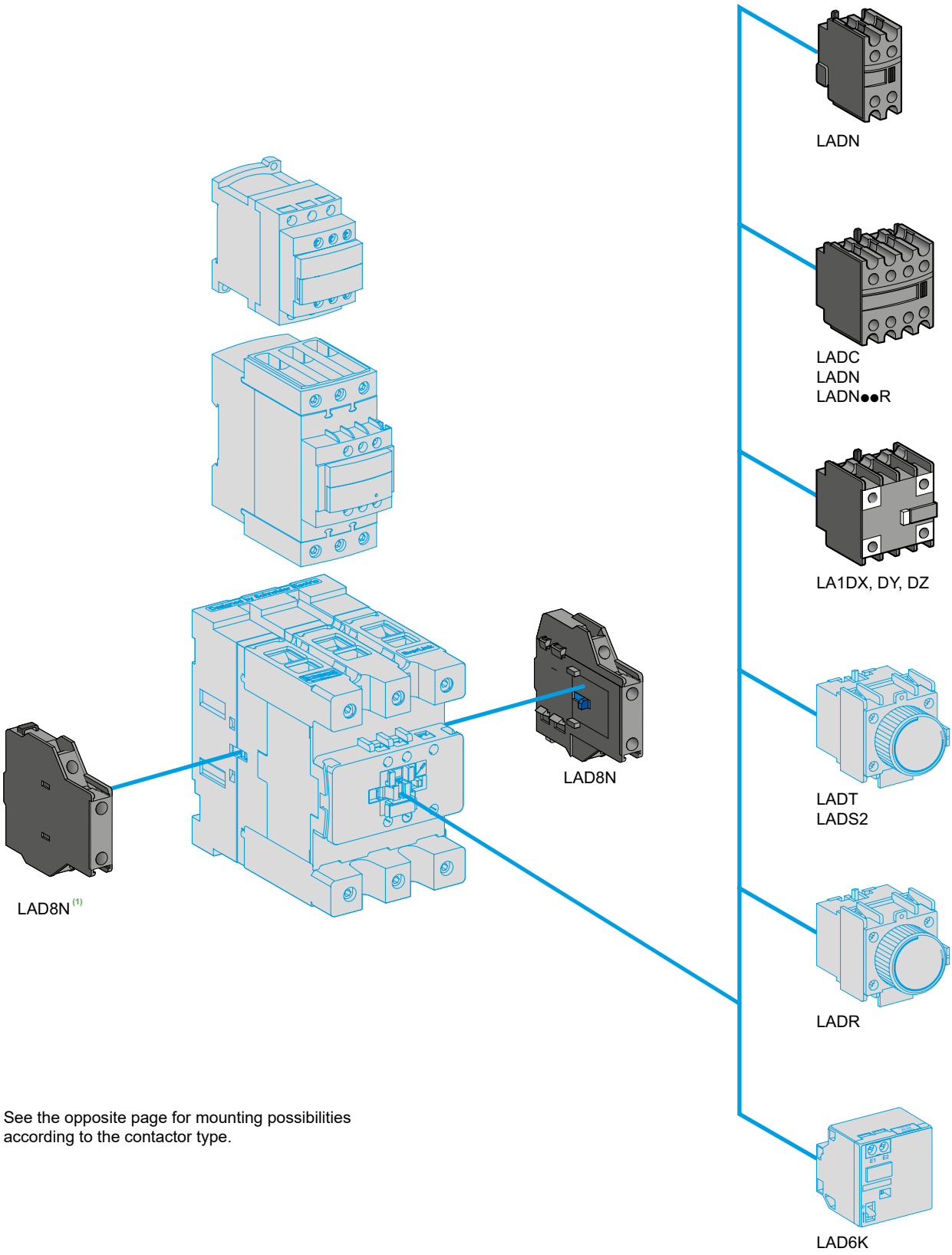
Coils consumption characteristics

Coil type	Uc DC - min - max	Average consumption at Uc DC / 20 °C	
		Inrush	Sealed
BL	24 V - 0.8 Uc to 1.1 Uc	2.4 W - 2.4 VA	2.4 W - 2.4 VA
BNE		14 W - 14 VA	0.7 W - 0.7 VA
BBE		11 W - 12 VA	0.5 W - 0.5 VA

*(1) Replace dot by coil code. Ex **LC1D09●●** becomes **LC1D09BL**.*

Product references

DB433843.eps



See the opposite page for mounting possibilities according to the contactor type.

(1) No left side mounting on Deca Advanced contactors up to LC1D38.

Product references

PB121689.eps

LADN22

PB123773.eps

LAD8N11

PB123989.eps

LADN22R

PB123821.eps

LA1DX●●, LA1DZ●●

Instantaneous auxiliary contact blocks for connection by screw clamp terminals

For use in normal operating environments

Clip-on mounting	Number of contacts per block	Composition					Reference	
Front	2	–	–	–	1	1	**LADN11**	
		–	–	–	2	–	**LADN20**	
		–	–	–	–	2	**LADN02**	
	4	–	–	–	2	2	**LADN22**	**LADN22S** (1)
		–	–	–	1	3	**LADN13**	
		–	–	–	4	–	**LADN40**	
		–	–	–	–	4	**LADN04**	
		–	–	–	3	1	**LADN31**	
	4 incl. 1 N/O & 1 N/C make before break	–	–	–	2	2	**LADC22**	
Side (contact blocks compatible with AC coil and AC/DC Deca Advanced contactors)	2	–	–	–	1	1	**LAD8N11**	
		–	–	–	2	–	**LAD8N20**	
		–	–	–	–	2	**LAD8N02**	
For use in harsh industrial environment								
Front	2	–	–	–	1	1	**LADN11R**	
		–	–	–	2	–	**LADN20R**	
	4	–	–	–	2	2	**LADN22R**	
		–	–	–	4	–	**LADN40R**	
		–	–	–	3	1	**LADN31R**	
For terminal referencing conforming to EN 50012								
Front on 3P contactors and 4P contactors 60 A, 80 A, 200 A	2	–	–	–	1	1	**LADN11G**	
	4	–	–	–	2	2	**LADN22G**	
With dust and damp protected contacts, for use in harsh industrial environment								
Front	2	2	–	–	–	–	**LA1DX20**	
		1	1	–	–	–	**LA1DX11**	
		–	2	–	–	–	**LA1DX02**	
		2	–	2	–	–	**LA1DY20** (2)	
	4	2	–	–	2	–	**LA1DZ40**	
		2	–	–	1	1	**LA1DZ31**	

Instantaneous auxiliary contact blocks for connection by lugs

This type of connection is not possible for blocks with 1 contact or blocks with dust and damp protected contacts. For all other instantaneous auxiliary contact blocks, add the figure **6** to the end of the references selected above. Example: **LADN11** becomes **LADN116**.

Instantaneous auxiliary contact blocks for connection by spring terminals

This type of connection is not possible for LAD8, LADN with 1 contact or blocks with dust and damp protected contacts. For all other contact blocks, add the figure **3** to the end of the references selected above.
Example: **LADN11** becomes **LADN113**.

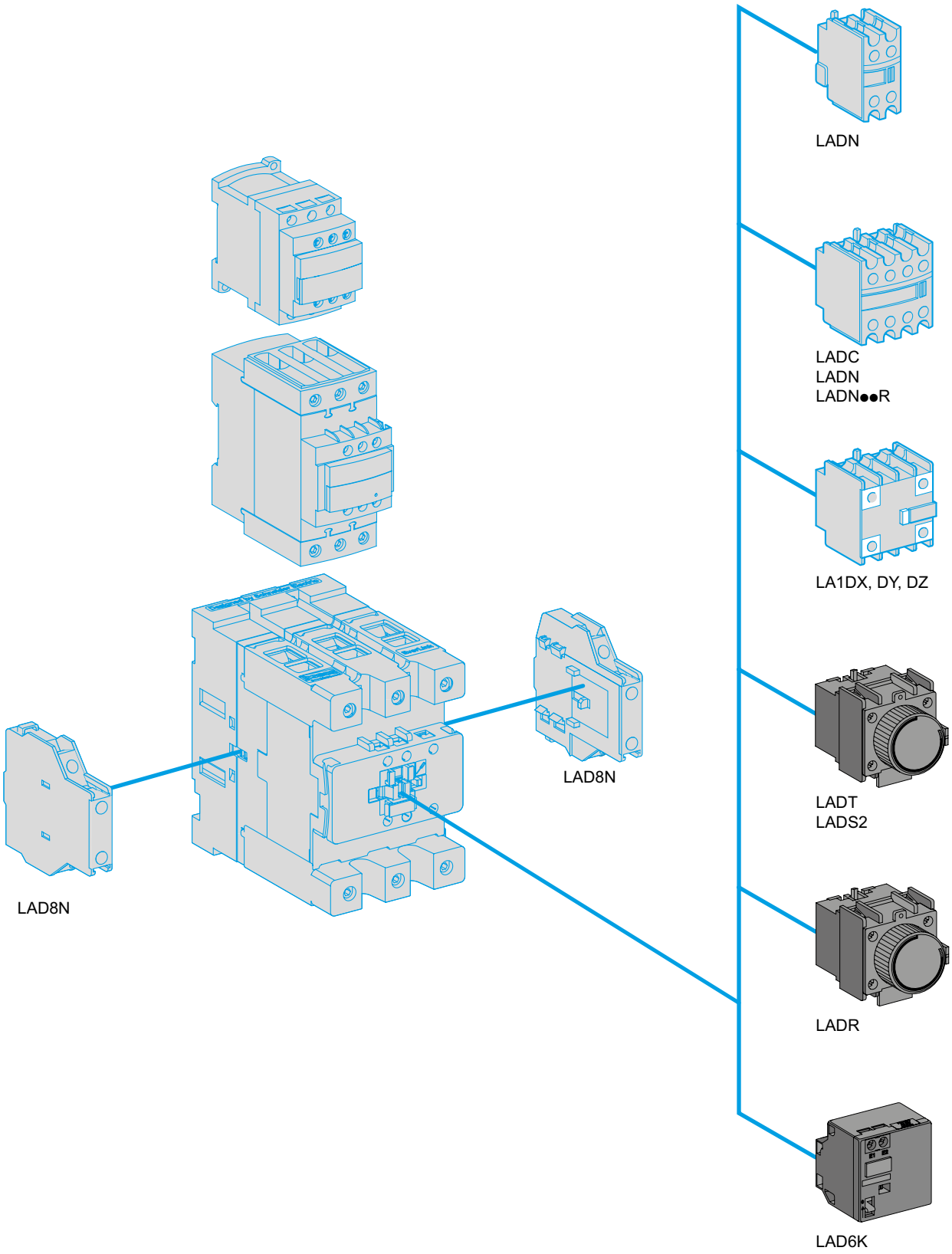
Maximum number of auxiliary contacts that can be fitted:

Contactors			Instantaneous auxiliary contacts					Time delay
Type		Number of poles and size	Side mounted		Front mounted			
					1 contact	2 contacts	4 contacts	1 block
AC/DC	3P	LC1D09…D38	1 on RH side	and	–	1	or 1	or 1
		LC1D40A…D80A	1 on LH or 1 on RH side	and	–	1	or 1	or 1
		LC1D115A and D150A	1 on each side	and	–	1		or 1
			1 on LH or 1 on RH side	and	–	1	or 1	or 1
	4P	LC1DT60A and DT80A	1 on LH or 1 on RH side	and	–	1	or 1	or 1
		LC1DT200A	1 on each side	and	–	1		or 1
			1 on LH or 1 on RH side	and	–	1	or 1	or 1

(1) With red front face - for safety chain indication.
(2) Device fitted with 4 earth screen continuity terminals.

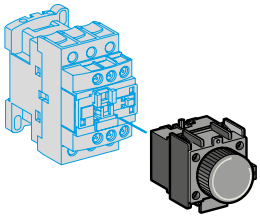
Product references

DB433944.eps



PB123803_R.eps

DB439399.eps



LADT●

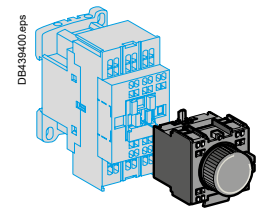
Time delay auxiliary contact blocks for connection by screw clamp terminals

Maximum number of auxiliary contact blocks that can be fitted per contactor, see page A1/15.
Sealing cover to be ordered separately, see page A1/19.
LADS2: with switching time of 40 ms ± 15 ms between opening of the N/C contact and closing of the N/O contact.

Clip-on mounting	Number of contacts	Time delay		Reference
		Type	Setting range	
Front	1 N/O + 1 N/C	On-delay	0.3…3 s (4)	**LADT0**
			1…30 s	**LADT2**
			10…180 s	**LADT4**
			1…30 s	**LADS2**
		Off-delay	0.3…3 s (4)	**LADR0**
			1…30 s	**LADR2**
			10…180 s	**LADR4**

PB124070.eps

DB439400.eps



LADT●3

Time delay auxiliary contact blocks for connection by lugs

Add the figure **6** to the end of the references selected above. Example: **LADT0** becomes **LADT06**.

Time delay auxiliary contact blocks for connection by spring terminals

Add the figure **3** to the end of the references selected above. Example: **LADT0** becomes **LADT03.**

Time delay auxiliary contact blocks for connection by Faston connectors

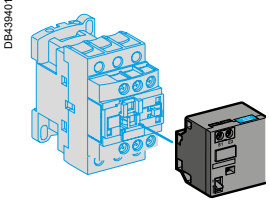
Add the figure **9** to the end of the references selected above. Example: **LADT0** becomes **LADT09**.

Mechanical latch blocks (1)

Clip-on mounting	Unlatching control	For use on contactor	Basic reference, to be completed by adding the control voltage code (2) (3)
Front	Manual or electric	LC1D09…D38 (AC/DC)	**LAD6K10●**
		LC1D40A…D80A (3P AC/DC) LC1DT60A and DT80A (4P AC/DC)	**LAD6K10●**
		LC1D115A…D150A (3P AC/DC) LC1DT200A (4P AC/DC)	**LAD6K20●** (5)

PB123772_R.eps

DB439401.eps



LAD6K10●

(1) The mechanical latch block must not be powered up at the same time as the contactor. The duration of the control signal for the mechanical latch block and the contactor should be:
≥ 100 ms for a contactor operating on an a.c. supply,
≥ 250 ms for a contactor operating on a d.c. supply.
Maximum impulse duration for the mechanical latch block: 10 seconds.
(2) Standard control circuit voltages (for other voltages, please consult your Local Schneider Electric Technical Support):

Volts 50/60 Hz, ⎓	24	32/36	42/48	60/72	100	110/127	220/240	256/277	380/415
Code	B	C	E	EN	K	F	M	U	Q

(3) Please check the availability of your variant in the index page A1/23. The SEARCH function of your viewer can be used.
(4) With extended scale from 0.1 to 6 s.
(5) Available in Q2 2025.

Product references


PB121360.eps

Accessories for main pole and control connections

Description		For use with contactors LC1 AC/DC	Sold in lots of	Unit reference
Connectors for cable, size (1 connector)	3-pole 6...25 mm²	D09…D38	1	**LA9D3260**
EverLink® terminal block (2)	3-pole	D40A…D80A	1	**LAD96560**
	3-pole	D115A…D150A	1	**LAD91503A**
	4-pole	DT200A	1	**LAD91154A**
Connectors for lug type terminals (2 connectors)	3-pole	D115A6, D150A6	1	**LAD915036**
	4-pole	DT200A6	1	**LAD911546**
Protective covers for connectors for lug type terminals	3-pole	D40A6…D80A6	1	**LAD96570**
	4-pole	DT60A6…DT80A6	1	**LAD96580**
IP20 covers for lug type terminals (for mounting with circuit breakers GV3 P●●6 and GV3 L●●6)	3 poles	D40A6…D80A6	1	**LAD96575**
Links for parallel connection of	2 poles	D09…D38	10	**LA9D2561**
		D40A…D80A	1	**LAD9P32**
	3 poles	D09…D38	10	**LAD9P3** (1)
		D40A…D80A	1	**LAD9P33**
Control circuit take-off from main pole		D115A, D150A	10	**LA9D11567**
Spreaders for increasing the pole pitch to 45 mm		D115A, D150A	1	**GV7AC03**
Flexible terminal extensions to connect with GV5, NSX160…NSX250	3 poles	D115A, D150A	1	**LAD91503111**
Flexible terminal extensions to connect with NSX160…NSX250	4 poles	DT200A	1	**LAD91154111**
Flexible terminal extensions to connect with LR9G115…LR9G225	3 poles	D115A, D150A	1	**LAD91503211**

(1) Separate connecting bar for connecting 2 poles in parallel.
(2) 1 connector within LAD96560, 2 connectors within LAD91503A and LAD91154A.


PB121362.eps

LAD96570


PB121365.eps

LA9D80962


PB121366.eps

LA9D11567

Product references

PB121367.eps

GV2G245

PB121368.eps

GV1G09

PB121369.eps

GV3S

Power connection accessories

Terminal block	For supply to one or more GV2G busbar sets	**GV1G09**
Set of 63 A busbars for parallelling of contactors	2 contactors LC1D09…D18 or D25…D38	**GV2G245**
	4 contactors LC1D09…D18 or D25…D38	**GV2G445**
Set of 115 A busbars for parallelling of contactors	2 contactors LC1D40A…D80A	**GV3G264**
	3 contactors LC1D40A…D80A	**GV3G364** (1)
Set of S-shape busbars	For circuit breakers GV3P●● and GV3L●● (3) and contactors LC1D40A…D65A	**GV3S**

PB123823.eps

LAD9ET1

PB123804.eps

LAD9ET1S

PB123824.eps

LAD21...22

PB123825.eps

LAD90

Protection accessories

Description	Use	Sold in lots of	Reference
Sealing cover	For LADT, LADR	1	**LA9D901**
Safety cover preventing access to the moving contact carrier	LC1D09…D80A and DT60A…DT80A	1	**LAD9ET1**
	Red cover (for safety chain indication)	1	**LAD9ET1S**
	LC1D115A…D150A, LC1DT200A	1	**LAD9ET5**
	Red cover (for safety chain indication)	1	**LAD9ET5S**

Marking accessories

Description	Use	Sold in lots of	Unit reference
Sheet of 64 blank legends, self-adhesive, 8 x 33 mm (2)	LADN (4 contacts), LA6DK	10	**LAD21**
Sheet of 112 blank legends, self-adhesive, 8 x 12 mm (2)	LADN (2 contacts), LADT, LADR, LRD	10	**LAD22**
Marker holder snap-in, 8 x 22 mm	LC1D115A…D150A, LC1DT200A	100	**LA9D92**
Marker holder snap-in, 8 x 18 mm	LC1D09...D65A, LC1DT60A…DT80A, LADN (4 contacts), LADT, LADR	100	**LAD90**
Bag of 300 blank legends self-adhesive, 7 x 21 mm	On holder LA9D92	1	**LA9D93**

PB121374.eps

LAD7X3

LAD9150RFB1_Image.eps

LAD9150RFB1

LAD9150RFT_Image.eps

LAD9150RFT

Mounting accessories

Description	Use	Sold in lots of	Reference
Retrofit plate for screw fixing	For replacement of LC1D40 to D80 with LC1D40A to D80A	1	**LAD7X3**
	For replacement of LC1D115 or D150 with LC1D115A or LC1D150A	1	**LAD9150RFB1**
	For replacement of LC2D115 or D150 with LC1D115A or LC1D150A	1	**LAD9150RFB2**
Retrofit connection terminal for bar upstream & downstream	For terminal adaptation from LC1D1156 or D1506 to LC1D115A6 or 150A6	1	**LAD9150RFT**
Size 4 Allen key, insulated, 1000 V	For use on contactors LC1D40A to LC1D150A	5	**LADALLEN4**

*(1) With this set of busbars, any one contactor can be supplied directly by its EverLink® double cage power terminal block. The other two contactors are supplied by the busbar set. The 115 A limitation is therefore applied to these two contactors. Example: 1 **LC1D65A** supplied directly + 1 contactor **LC1D65A** and 1 contactor **LC1D50A** supplied via the busbar set = 115 A. This combination is compatible with busbar set **GV3G364**.*
(2) These legends are for sticking onto the safety cover of the contactors or add-on block, if fitted.
*(3) With 73 A current limit for **GV3L73**, **GV3P73**.*

Product references

PB121375.eps

LAD9R1

PB121376.eps

LAD9R3

PB121377.eps

LA9D8069

PB123826.eps

LAD91217

PB121378.eps

LAD91218

For 3-pole reversing contactors for motor control

Contactors with screw clamp terminals or connectors. Horizontally mounted, assembled by customer.

Description	For contactors [1] (2 identical contactors)	Reference
Kits for assembly of reversing contactors		
Kit comprising: ■ a mechanical interlock **LAD9V2** with electrical interlocking **LAD9V1** ■ a set of power connections **LAD9V5** (parallel) and **LAD9V6** (reversing).	LC1D09 to D38	**LAD9R1V**
Kit comprising: ■ a mechanical interlock **LAD9V2** without electrical interlocking ■ a set of power connections **LAD9V5** (parallel) and **LAD9V6** (reversing).	LC1D09 to D38	**LAD9R1**
Kit comprising: ■ a mechanical interlock **LAD4CM** ■ a set of power connections **LA9D65A69**.	LC1D40A to D80A	**LAD9R3**
Mechanical interlocks		
Mechanical interlock without integral electrical interlocking	LC1D09 to D38	**LAD9V2**
	LC1D40A to D80A	**LAD4CM**
	LC1D115A to D150A	**LAD5CM**
Sets of power connections		
Comprising: ■ a set of parallel bars ■ a set of reverser bars.	LC1D09 to D38 with screw clamp terminals or connectors	**LAD9V5** + **LAD9V6**
	LC1D09…D32 with spring terminal connections	**LAD9V12** + **LAD9V13**
	LC1D40A to D80A	**LA9D65A69**
	LC1D115A and D150A	**LAD9150369**

For Star-Delta starter

Description	For contactors	Kit with timer	Kit **without timer LADS2**
Kits for assembly of Star-Delta contactors			
Mounting kit comprising: ■ 1 time delay contact block **LADS2** (**LC1D09…D95**), ■ power circuit connections (**LC1D09…D95**), ■ hardware required for fixing the contactors onto the mounting plate, ■ mechanical interlocks, ■ electrical interlocks.	LC1D09 to D38 [3]	**LAD91217**	**LAD91218**
	LC1D25 to D38 [4]	**LAD93217**	**LAD93218**
	LC1D40A to D80A	**LAD9SD3** [2]	**–**
Mechanical interlocks			
Mechanical interlock without integral electrical interlocking	LC1D09 to D38	**LAD9V2**	
	LC1D40A to D80A	**LAD4CM**	
	LC1D115A to D150A	**LAD5CM**	
Sets of power connections			
Comprising: ■ a short circuit bar ■ 2 sets of reverser bars.	LC1D40A to D150A [5]		**LAD9150SD17**
	LC1D115A and D150A [3]		**LAD9150SD19**

(1) To order the 2 contactors: see pages A1/9 and A1/11.
(2) LAD9SD3 without electrical interlocks.
(3) For assembly of 3 contactors of the same physical size (depth).
*(4) For assembly of Main + Delta contactors **LC1D25** to **LC1D38** with Star contactor **LC1D09** to **LC1D18.***
*(5) For assembly of Main + Delta contactors **LC1D115A** to **LC1D150A** with Star contactor **LC1D40A** to **LC1D65A**.*

Product references

LAD5CM_Image.eps

LAD5CM

For 4-pole changeover contactor pairs (3-phase distribution + neutral)

Contactors with screw clamp terminals or connectors. Horizontally mounted, assembled by customer.

Description	For contactors [1] (2 identical contactors)	Reference
Mechanical interlocks		
Without integral electrical interlocking	LC1DT60A and DT80A	**LAD4CM**
	LC1DT200A	**LAD5CM**
Sets of power connections		
Comprising a set of parallel bars	LC1DT200A	**LAD9115471**

PB121382.eps

LAD9R3S

For 3-pole changeover contactor pairs

Contactors with screw clamp terminals or connectors. Horizontally mounted, assembled by customer.

Description	For contactors [1] (2 identical contactors)	Reference
Kits for assembly of changeover contactor pairs		
Kit comprising: ■ a mechanical interlock LAD4CM ■ a set of parallel bars LA9D65A6	LC1D40A…D80A	**LAD9R3S**
Mechanical interlocks		
Without integral electrical interlocking	LC1D40A…D80A	**LAD4CM**
With integral electrical interlocking	LC1D115A and D150A	**LAD5CM**
Sets of power connections		
Comprising a set of parallel bars	LC1D40A…D80A	**LA9D65A6**
	LC1D115A...D150A	**LAD9150371**

LAD9150371_Image.eps

LAD9150371

(1) To order the 2 contactors: see pages A1/9 and A1/11.
*(2) Order 2 contact blocks **LADN●1** to build the electrical interlock, see page A1/15.*

Control module

LX1D83BNE_Image.psd

LX1D83BNE

LX1D84BNE_Image.psd

LX1D84BNE

Wide band electronic control
24 V…500 V 50/60 Hz or DC control input
Accessible for easy and quick replacement

The range of control modules is organized:
- per contactor size and for each rating,
- per control voltage range.

Control modules

Description		For contactors	References per voltage range (V AC/DC)			
			24…60	48…130	100…250	200…500
Control modules	3-pole	LC1D115A...D150A	**LX1D83BNE**	**LX1D83EHE**	**LX1D83KUE**	**LX1D83LSE**
	4-pole	LC1DT200A	**LX1D84BNE**	**LX1D84EHE**	**LX1D84KUE**	**LX1D84LSE**

Replaceable switching modules

LA5D1153SM_Image.psd

LA5D1153SM

- Replace worn-out poles with a new switching module in minutes, without having to disassemble the whole product
- No special tools are needed for the replacement.

Switching modules for TeSys Deca Advanced contactors

Description		For contactors	Quantity Set of	Reference
3 or 4 switching module kits	3-pole	LC1D115A	1	**LA5D1153SM**
		LC1D150A	1	**LA5D1503SM**
	4-pole	LC1DT200A	1	**LA5D1154SM**

(1) Available in Q2 2025.

Product references

A9A15922	LAD4BB	LAD9722	LADN13G	LC1D115ALSE (1)	LC1DT200AKUE (1)
A9A15923	LAD4BB3	LAD9723	LADN13P	LC1D12BNE	LC1DT200ALSE (1)
GV3S	LAD4BBVE	LAD9744	LADN20	LC1D12EHE	LC1DT60A6BBE
GV7AC03	LAD4BBVG	LAD9BB18	LADN203	LC1D12KUE	LC1DT60A6BNE
LA1DX02	LAD4BBVU	LAD9BB32	LADN206	LC1D150A6BNE (1)	LC1DT60A6EHE
LA1DX11	LAD4CM	LAD9ET1	LADN20R	LC1D150A6EHE (1)	LC1DT60A6KUE
LA1DX20	LAD5CM (1)	LAD9ET1S	LADN22	LC1D150A6KUE (1)	LC1DT60ABBE
LA1DY20	LAD6K10B	LAD9ET2	LADN223	LC1D150A6LSE (1)	LC1DT60ABNE
LA1DZ31	LAD6K10E	LAD9ET3S	LADN223G	LC1D150ABNE (1)	LC1DT60AEHE
LA1DZ40	LAD6K10F	LAD9ET4	LADN226	LC1D150AEHE (1)	LC1DT60AKUE
LA1KN223M	LAD6K10J	LAD9ET4S	LADN22G	LC1D150AKUE (1)	LC1DT80A6BBE
LA1KN316	LAD6K10K	LAD9ET5 (1)	LADN22P	LC1D150ALSE (1)	LC1DT80A6BNE
LA4DBL	LAD6K10M	LAD9ET5S (1)	LADN22R	LC1D18BNE	LC1DT80A6EHE
LA4DFB	LAD6K20B (3)	LAD9P3	LADN22S	LC1D18EHE	LC1DT80A6KUE
LA4DT0U	LAD6K20E (3)	LAD9P32	LADN31	LC1D18KUE	LC1DT80ABBE
LA4DT2U	LAD6K20F (3)	LAD9P33	LADN313	LC1D25BNE	LC1DT80ABNE
LA4DT4U	LAD6K20J (3)	LAD9R1	LADN313G	LC1D25EHE	LC1DT80AEHE
LA4DWB	LAD6K20M (3)	LAD9R11	LADN316	LC1D25KUE	LC1DT80AKUE
LA5D1153SM (2)	LAD6K20Q (3)	LAD9R1V	LADN31G	LC1D32BNE	LC2D09BNE
LA5D1154SM (2)	LAD7X3	LAD9R3	LADN31P	LC1D32EHE	LC2D09EHE
LA5D1503SM (2)	LAD8N02	LAD9R3S	LADN31R	LC1D32KUE	LC2D09KUE
LA6DK10C	LAD8N026	LAD9SD3	LADN40	LC1D38BNE	LC2D12BNE
LA6DK10J	LAD8N11	LAD9SD3S	LADN403	LC1D38EHE	LC2D12EHE
LA6DK10U	LAD8N116	LAD9V1	LADN403G	LC1D38KUE	LC2D12KUE
LA7D902	LAD8N11G	LAD9V10	LADN406	LC1D40A6BBE	LC2D18BNE
LA9D0921	LAD8N20	LAD9V11	LADN40G	LC1D40A6BNE	LC2D18EHE
LA9D09966	LAD8N206	LAD9V12	LADN40R	LC1D40A6EHE	LC2D18KUE
LA9D09976	LAD90	LAD9V13	LADR0	LC1D40A6KUE	LC2D25BNE
LA9D09981	LAD901	LAD9V14	LADR03	LC1D40ABBE	LC2D25EHE
LA9D1263	LAD9011	LAD9V15	LADR06	LC1D40ABNE	LC2D25KUE
LA9D1269	LAD903	LAD9V16	LADR2	LC1D40AEHE	LC2D32BNE
LA9D12974	LAD904	LAD9V17	LADR23	LC1D40AKUE	LC2D32EHE
LA9D15017	LAD91154111 (1)	LAD9V2	LADR26	LC1D50A6BBE	LC2D32KUE
LA9D16906	LAD911546 (1)	LAD9V5	LADR4	LC1D50A6BNE	LC2D38BNE
LA9D1860	LAD9115470 (1)	LAD9V6	LADR43	LC1D50A6EHE	LC2D38EHE
LA9D1869	LAD9115471 (1)	LAD9VP1	LADR46	LC1D50A6KUE	LC2D38KUE
LA9D2561	LAD91154A (1)	LAD9VP2	LADS2	LC1D50ABBE	LC2D40ABBE
LA9D2569	LAD91209	LAD9VP3	LADS23	LC1D50ABNE	LC2D40ABNE
LA9D3260	LAD91217	LAD9VP4	LADS26	LC1D50AEHE	LC2D40AEHE
LA9D3269	LAD91218	LADALLEN4	LADT0	LC1D50AKUE	LC2D40AKUE
LA9D32974	LAD912GV	LADC22	LADT03	LC1D65A6BBE	LC2D50ABBE
LA9D4002	LAD91503111 (1)	LADC223	LADT06	LC1D65A6BNE	LC2D50ABNE
LA9D40961	LAD91503211 (1)	LADC226	LADT2	LC1D65A6EHE	LC2D50AEHE
LA9D40963	LAD915036 (1)	LADN01	LADT23	LC1D65A6KUE	LC2D50AKUE
LA9D5017	LAD9150369 (1)	LADN02	LADT26	LC1D65ABBE	LC2D65ABBE
LA9D50978	LAD9150370 (1)	LADN023	LADT4	LC1D65ABNE	LC2D65ABNE
LA9D511	LAD9150371 (1)	LADN026	LADT46	LC1D65AEHE	LC2D65AEHE
LA9D6567	LAD91503A (1)	LADN04	LADT9R1	LC1D65AKUE	LC2D65AKUE
LA9D65A6	LAD9150RFB1 (1)	LADN043	LADT9R1V	LC1D80A6BBE	LC2D80ABBE
LA9D65A69	LAD9150RFB2 (1)	LADN046	LAZR90M	LC1D80A6BNE	LC2D80ABNE
LA9D730	LAD9150RFT (1)	LADN10	LAZR90Q	LC1D80A6EHE	LC2D80AEHE
LA9D894	LAD9150SD17 (1)	LADN11	LAZR91F	LC1D80A6KUE	LC2D80AKUE
LA9D898	LAD9150SD19 (1)	LADN113	LC1D09BNE	LC1D80ABBE	LX1D83BNE (2)
LA9D90	LAD92560	LADN113G	LC1D09EHE	LC1D80ABNE	LX1D83EHE (2)
LA9D901	LAD93217	LADN113P	LC1D09KUE	LC1D80AEHE	LX1D83KUE (2)
LA9D92	LAD93218	LADN116	LC1D115A6BNE (1)	LC1D80AKUE	LX1D83LSE (2)
LA9D93	LAD96061	LADN11G	LC1D115A6EHE (1)	LC1DT200A6BNE (1)	LX1D84BNE (2)
LA9D99	LAD96560	LADN11P	LC1D115A6KUE (1)	LC1DT200A6EHE (1)	LX1D84EHE (2)
LA9E01	LAD96566	LADN11R	LC1D115A6LSE (1)	LC1DT200A6KUE (1)	LX1D84KUE (2)
LA9E02	LAD96570	LADN13	LC1D115ABNE (1)	LC1DT200A6LSE (1)	LX1D84LSE (2)
LAD21	LAD96575	LADN133	LC1D115AEHE (1)	LC1DT200ABNE (1)	
LAD22	LAD96580	LADN136	LC1D115AKUE (1)	LC1DT200AEHE (1)	

(1) China available in October 2024. Europe, the Americas, the Middle East, India, East Asia and other regions available in January 2025.
(2) Available in Q2 2025.
(3) Available in Q2 2025.

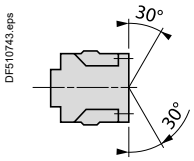
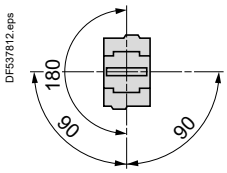
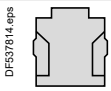
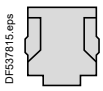
This document is current. Click on the product reference to get the most recent availability status (hyperlink to **se.com** product datasheet). If your product variant is no longer available, please consult your distributor or regional sales office.

Technical Data for Designers

Contents

Characteristics

Environment

Contactor type LC1			D09…D18	D25…D38	D40A…D80A DT60A and DT80A	D115A...D150A and DT200A
Rated insulation voltage (Ui)	Conforming to IEC 60947-4-1, overvoltage category III, degree of pollution: 3	**V**	690			1000
	Conforming to UL, CSA	**V**	600			
Rated impulse withstand voltage (Uimp)	Conforming to IEC 60947	**kV**	6			8
Conforming to standards			IEC/EN 60947-4-1, UL 60947-4-1, CSA C22.2 n° 60947-4-1, GB/T 14048.4			
Product certifications			CB scheme, CCC, cULus (UL + CSA standards compliance), EAC, EU-RO-MR by DNV [6], CE and UKCA markings			
Voltage sag immunity (in complete product as well)			Conforming to SEMI-F47			
Degree of protection [1] (front face)	Conforming to IEC 60529					
	Power circuit connections		Protection against direct finger contact IP20			
	Coil connection		Protection against direct finger contact IP20			
Climatic withstand			IACS E10, IEC 60947-1 Annex Q category C & D			
Ambient air temperature around the device	Storage	**°C**	-60…+80			
	Operation [2]	**°C**	-40...+60			
	Allowed with derating [2] [3]	**°C**	+60…+70			
Maximum operating altitude	Without derating	**m**	3000			
Operating positions [4]	Without derating in the following positions		AC/DC and "BBE" coils 		AC/DC and "BBE" coils 	
	With derating in the following position					
	Positions that are not allowed					
Flame resistance	Conforming to IEC 60695-2-11	**°C**	850			
Shock resistance [5] 1/2 sine wave = 11 ms Conforming to IEC/EN 60068-2-27	Contactor open		10 gn	8 gn	10 gn	10 gn
	Contactor closed		15 gn	15 gn	15 gn	15 gn
Vibration resistance [5] 5…300 Hz Conforming to IEC/EN 60068-2-6	Contactor open		2 gn			
	Contactor closed		4 gn	4 gn	4 gn	4 gn

(1) Protection provided for the cabling c.s.a.'s indicated on the next page and for connection by cable. For lug type: add a protective cover.
(2) As per IEC60947-4-1, operating time and drop out voltage given and tested for -5...+40 °C.
(3) Refer to operational current in AC1 (page A3/44).
(4) When mounting on a vertical rail, use a stop.
(5) Without modifying the power contact states, in the most unfavourable direction (coil energised at Ue). In case of vibration, it is recommended to mount the devices separately by screws on metal plate.
(6) EU-RO-MR certification of LC1D115A…D150A and DT200A will be ready in Q1 2025.

Characteristics

Pole characteristics Deca Advanced contactors

Contactor type		LC1		D09	D12	D18	D25
Rated operational current (Ie) (Ue ≤ 440 V)	In AC-3/AC-3e, θ ≤ 60 °C		**A**	9	12	18	25
	In AC-1, θ ≤ 60 °C		**A**	25 (1)	25 (1)	32 (1)	40 (1)
Rated operational voltage (Ue)	Up to (as per IEC 60947-1)		**V**	690	690	690	690
Frequency limits	Of the operational current		**Hz**	25…400	25…400	25…400	25…400
Conventional thermal current (Ith)	θ ≤ 60 °C		**A**	25 (1)	25 (1)	32 (1)	40 (1)
Rated making capacity (440 V)	Conforming to IEC 60947		**A**	250	250	300	450
Rated breaking capacity (440 V)	Conforming to IEC 60947		**A**	250	250	300	450
Permissible short time rating No current flowing for preceding 15 minutes with θ ≤ 40 °C	For 1 s		**A**	210	210	240	380
	For 10 s		**A**	105	105	145	240
	For 1 min		**A**	61	61	84	120
	For 10 min		**A**	30	30	40	50
Fuse protection against short-circuits (U ≤ 690 V)	Without thermal overload relay, gG fuse	type 1	**A**	25	40	50	63
		type 2	**A**	20	25	35	40
	With thermal overload relay		**A**	See pages B11/4 and B11/5 of TeSys Catalog, ref. MKTED210011EN, for aM or gG fuse ratings corresponding to the associated thermal overload relay			
Average impedance per pole	At Ith and 50 Hz		**mΩ**	2.5	2.5	2.5	2
Power dissipation per pole for the above operational currents	AC-3/AC-3e		**W**	0.20	0.36	0.8	1.25
	AC-1		**W**	1.56	1.56	2.5	3.2

(1) The closing time "C" is measured from the moment the coil supply is switched on to closure of the main poles. The opening time "O" is measured from the moment the coil supply is switched off to the moment the main poles separate
(2) AC-3 category for LC1DT60A & LC1DT80A. For AC-3e category please contact your technical support.

Characteristics

	D32	D38	D40A	DT60A	D50A	D65A	D80A	DT80A	D115A	D150A	DT200A
	32	38	40	40 (2)	50	65	66	50 (2)	115	150	115
	50 (1)	50	60	60	80	80	80	80	200	200	200
	690	690	690	690	690	690	690	690	1000 (3)	1000 (3)	1000 (3)
	25…400	25…400	25…400	25…400	25…400	25…400	25…400	25…400	16.67…400	16.67…400	16.67…400
	50	50	60	60	80	80	80	80	200	200	200
	550	550	800	800	900	1000	1000	1000	1560	1885	1260
	550	550	800	800	900	1000	1000	1000	1100	1440	1100
	430	430	720	720	810	900	900	900	1800	1800	1800
	260	310	320	320	400	640	640	640	1280	1280	1280
	138	150	165	165	208	260	260	260	600	600	600
	60	60	72	72	84	110	110	110	350	350	350
	63	63	80	80	100	125	125	125	250	315	315
	63	63	80	80	100	125	125	125	200	250	250
	See pages B11/4 and B11/5 of TeSys Catalog, ref. MKTED210011EN, for aM or gG fuse ratings corresponding to the associated thermal overload relay										
	2	2	1.5	1.6	1.5	1.5	1.5	1.6	0.45	0.45	0.45
	2	3	2.4	2.4 (2)	3.7	6.3	6.3	6.3 (2)	6	8	6
	5	5	5.4	5.8	9.6	9.6	9.6	10.2	22	22	28

(1) The closing time "C" is measured from the moment the coil supply is switched on to closure of the main poles. The opening time "O" is measured from the moment the coil supply is switched off to the moment the main poles separate.
(2) AC-3 category for LC1DT60A & LC1DT80A. For AC-3e category please contact your technical support.
(3) LC1D115A, D150A and DT200A are currently certified for Ue up to 690 V, with the design capabilities for Ue up to 1000 V. Certification process is ongoing for Ue = 1000 V.

Wide band Deca Advanced contactors AC/DC coil circuit characteristics

Rated control circuit voltage (Uc)		**V**	AC/DC 24…250 for **LC1D09…D38, LC1D40A…D80A, LC1DT60A, LC1DT80A** AC/DC 24…500 for **LC1D115A…D150A, LC1DT200A**
	Operation	**V**	**LC1D09…D80A**: 0.85 Uc mini…1.1 Uc maxi at 60 °C in AC or DC (1). **LC1D115A…D150A, LC1DT200A**: 0.8 Uc mini…1.1 Uc maxi at 60 °C in AC or DC.
	Drop-out	**V**	0.1 Uc maxi (e.g. 100 to 250 V = 25 V at 60 °C)

Contactor type			**LC1D09...D38**			**LC1D40A...D80A, LC1DT60A, LC1DT80A**			
Coil code			**BNE**	**EHE**	**KUE**	**BBE**	**BNE**	**EHE**	**KUE**
Rated control circuit voltage (Uc)			24...60	48...130	100...250	24 DC	24...60	48...130	100...250
Rated operational voltage	Conforming to IEC 60947-1	**V**	250 max						
	Conforming to UL, CSA	**V**	250 max						
AC supply at 20°C	Consumption inrush	**VA**	15	25	25	-	18	25	22
	Consumption sealed	**VA**	0.9	1.3	1.6	-	1.2	1.8	2.1
	Consumption sealed	**mA**	28	15	9	-	38	21	11.3
	Heat dissipation	**W**	0.6	0.8	1.1	-	0.8	0.9	1.3
DC supply at 20°C	Consumption inrush	**W**	14	24	18	11.5	18	20	20
	Consumption sealed	**mA**	23	13	7	22	33	18	10.7
	Heat dissipation	**W**	0.6	0.8	1.1	0.5	0.7	0.9	1.2
Max operating time (3)	Closing "C"	**ms**	50 ±5			60 ±5			
	Opening "O"	**ms**	20...90			20...80			
EMC immunity			Meets IEC 60947-4-1 standard, table 12						
EMC emission	IEC 60947-4-1 §9.4.3		Environment A (2)						
Maximum operating rate at ambient temperature ≤ 60°C		**cycle/h**	3600						
Mechanical durability at Uc In millions of operating cycles			15			10			

Contactor type			**LC1D115A…D150A, LC1DT200A**			
Coil code			**BNE**	**EHE**	**KUE**	**LSE**
Rated control circuit voltage (Uc)			24...60	48...130	100...250	200...500
Rated operational voltage	Conforming to IEC 60947-1	**V**	500 max			
	Conforming to UL, CSA	**V**	500 max			
AC supply at 20°C	Consumption inrush	**VA**	170	170	170	170
	Consumption sealed	**VA**	7.5	7.5	8	16.5
	Consumption sealed	**mA**	200	109	40	38
	Heat dissipation	**W**	2.2	1.5	1.1	3
DC supply at 20°C	Consumption inrush	**W**	136	120	105	120
	Consumption sealed	**mA**	130	76	25	26
	Heat dissipation	**W**	2.2	1.5	1.1	3
Max operating time (3)	Closing "C"	**ms**	20...90			
	Opening "O"	**ms**	10...80			
EMC immunity			Meets IEC 60947-4-1 standard, table 12			
EMC emission	IEC 60947-4-1 §9.4.3		Environment A (2)			
Maximum operating rate at ambient temperature ≤ 60°C		**cycle/h**	2400			
Mechanical durability at Uc In millions of operating cycles			8			

*(1) **LC1D09**…**D38**: **BNE coil**: 0.8 Uc mini at 24 V DC, 0.85 Uc mini in AC*
__LC1D40A__…__D80A__, __LC1DT60A__, __LC1DT80A__: __BBE coil__: 0.8 Uc mini.
(2) Use of this product in EMC environment B may require mitigation measures to avoid unwanted disturbance.
(3) The closing time "C" is measured from the moment the coil supply is switched on to closure of the main poles. The opening time "O" is measured from the moment the coil supply is switched off to the moment the main poles separates.

Characteristics

Power circuit connections

Screw clamp terminal connections Deca, Deca Advanced contactors

Contactor type		LC1	D09 and D12	D18 (3P)	D25 (3P)	D32	D38	D18	D40A to D80A DT60A and DT80A (1)	D115A, D150A and DT200A
Tightening			Screw clamp terminals					Connector 2 inputs	Screw clamp terminals	Connector 2 inputs
Flexible cable without cable end	1 conductor	mm²	1…4	1.5…6	2.5…10			2.5…10	1…35	10…120
	2 conductors	mm²	1…4	1.5…6	2.5…10			2.5…10	1…25 and 1…35	10…120 + 10…50
Flexible cable with cable end	1 conductor	mm²	1…4	1…6	1…10			2.5…10	1…35	10…120
	2 conductors	mm²	1…2.5	1…4	1.5…6			2.5…10	1…25 and 1…35	10…120 + 10…50
Solid cable without cable end	1 conductor	mm²	1…4	1.5…6	1.5…10			2.5…16	1…35	10…120
	2 conductors	mm²	1…4	1.5…6	2.5…10			2.5…16	1…25 and 1…35	10…120 + 10…50
Screwdriver	Philips / Pozidriv		N° 2	N° 2	N° 2			N° 2	–	–
	Flat screwdriver Ø		Ø6	Ø6	Ø6			Ø6	–	–
Hexagonal key			–	–	–			–	4	4
Tightening torque		N.m	1.7	1.7	2.5			1.8	5: ≤ 25 mm² 8: 35 mm²	12

Spring terminal connections (2) Deca contactors

Flexible cable without cable end	1 conductor	mm²	2.5 (4: DT25)	4	4	4	–	10	–	
	2 conductors	mm²	2.5 (except DT25)	4	4	4	–	–	–	

Connection by bars or lugs Deca contactors

Bar c.s.a.			–	–	–	–		–	–	5 x 25
Lug external Ø		mm	8	8	10	10		8	16.5	25
Ø of screw		mm	M3.5	M3.5	M4	M4		M3.5	M6	M8
Screwdriver	Philips / Pozidriv		N° 2	N° 2	N° 2	N° 2		N° 2	–	–
	Flat screwdriver Ø		Ø6	Ø6	Ø6	Ø6		Ø6	–	–
Key for hexagonal headed screw			–	–	–	–		–	10	–
Hexagonal key			–	–	–	–		–	–	6
Tightening torque		N.m	1.7	1.7	2.5	2.5		1.8	6	12

Control circuit connections

Connection by cable (tightening via screw clamps) Deca, Deca Advanced contactors

Flexible cable without cable end	1 conductor	mm²	1…4	1…4	1…4	1…4		1…4	1…4	1…4
	2 conductors	mm²	1…4	1…4	1…4	1…4		1…4	1…4	1…4
Flexible cable with cable end	1 conductor	mm²	1…4	1…4	1…4	1…4		1…4	1…4	1…4
	2 conductors	mm²	1…2.5	1…2.5	1…2.5	1…2.5		1…2.5	1…2.5	1…2.5
Solid cable without cable end	1 conductor	mm²	1…4	1…4	1…4	1…4		1…4	1…4	1…4
	2 conductors	mm²	1…4	1…4	1…4	1…4		1…4	1…4	1…4
Screwdriver	Philips / Pozidriv		N° 2	N° 2	N° 2	N° 2		N° 2	N° 2	N° 2
	Flat screwdriver Ø		Ø6	Ø6	Ø6	Ø6		Ø6	Ø6	Ø6
Tightening torque		N.m	1.7	1.7	1.7	1.7		1.7	1.7	1.7

Spring terminal connections (2) Deca contactors

Flexible cable without cable end	1 conductor	mm²	2.5	2.5	2.5	2.5	–	2.5	0.75…2.5	–
	2 conductors	mm²	2.5	2.5	2.5	2.5	–	2.5	0.75…2.5	–

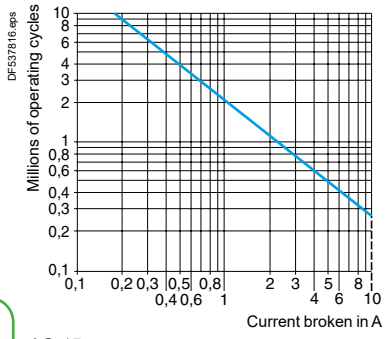
Connection by bars or lugs Deca contactors

Lug external Ø		mm	8	8	8	8		8	8	–
Ø of screw		mm	M3.5	M3.5	M3.5	M3.5		M3.5	M3.5	–
Screwdriver	Philips / Pozidriv		N° 2	N° 2	N° 2	N° 2		N° 2	N° 2	–
	Flat screwdriver Ø		Ø6	Ø6	Ø6	Ø6		Ø6	Ø6	–
Tightening torque		N.m	1.7	1.7	1.7	1.7		1.7	1.7	–

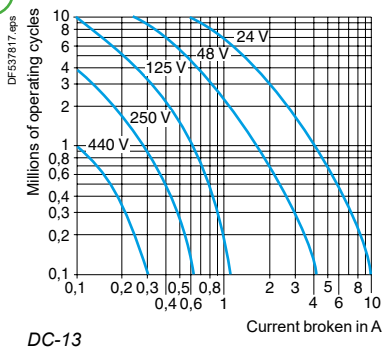
*(1) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference **LADALLEN4**, see page A1/19).*
(2) If cable ends are used, choose the next size down (example: for 2.5 mm², use 1.5 mm²) and square crimp the cable ends using a special tool.

Characteristics of auxiliary contacts incorporated in the contactor

Mechanically linked contacts	Conforming to IEC 60947-5-1			Each contactor has 2 N/O and N/C contacts mechanically linked on the same movable contact holder
Mirror contact	Conforming to IEC 60947-4-1			The N/C contact on each contactor represents the state of the power contacts and can be connected to a PREVENTA safety module
Rated operational voltage (Ue)	Up to		**V**	690 (2)
Rated insulation voltage (Ui)	Conforming to IEC 60947-1		**V**	690
	Conforming to UL, CSA		**V**	600
Conventional thermal current (Ith)	For ambient temperature ≤ 60 °C		**A**	10
Frequency of the operational current			**Hz**	25…400
Minimum switching capacity $\lambda = 10^{-8}$	U min		**V**	17
	I min		**mA**	5
Short-circuit protection	Conforming to IEC 60947-5-1			gG fuse: 10 A
Rated making capacity	Conforming to IEC 60947-5-1, I rms		**A**	∼: 140, ⎓: 250
Short-time rating	Permissible for	1 s	**A**	100
		500 ms	**A**	120
		100 ms	**A**	140
Insulation resistance			**MΩ**	> 10
Non-overlap time	Guaranteed between N/C and N/O contacts		**ms**	1.5 (on energisation and on de-energisation)
Tightening torque	Pozidriv / Philips head n° 2 and Ø6		**N.m**	1.7



AC-15



DC-13

Operational power of contacts conforming to IEC 60947-5-1

a.c. supply, categories AC-14 and AC-15

Electrical durability (valid for up to 3600 operating cycles/hour) on an inductive load such as the coil of an electromagnet: making current (cos ϕ 0.7) = 10 times the power broken (cos ϕ 0.4).

Operating cycles	V	24	48	115	230	400	440	600
1 million	**VA**	60	120	280	560	960 (1)	1050	1440
3 million	**VA**	16	32	80	160	280	300	420
10 million	**VA**	4	8	20	40	70	80	100

d.c. supply, category DC-13

Electrical durability (valid for up to 1200 operating cycles/hour) on an inductive load such as the coil of an electromagnet, without economy resistor, the time constant increasing with the load.

Operating cycles	V	24	48	125	250	440
1 million	**W**	96	76	76	76	44
3 million	**W**	48	38	38	32	–
10 million	**W**	14	12	12	–	–

(1) LC1D115A, D150A and DT200A are validated under 780 VA up to 1200 operating cycles/hour.
(2) LC1D115A, D150A and DT200A are currently certified for Ue up to 600 V, with the design capabilities for Ue up to 690 V. Certification process is ongoing for Ue = 690 V.

Characteristics

Environment

Contact block type				LADN or LADC	LADT and LADS	LADR	LAD8	LADN●●R
				Non protected				Protected
Conforming to standards				IEC/EN 60947-5-1, UL 60947-5-1, CSA C22.2 n° 60947-5-1, GB/T 14048.5				
Product certifications				UL, CSA, CCC, EAC, UKCA, CB certification				
Degree of protection	Conforming to IEC 60529			Protection against direct finger contact IP 2X				
Ambient air temperature around the device	Storage		°C	-60…+80				
	Operation		°C	-5…+60				-25…+70 (1)
Maximum operating altitude	Without derating		m	3000				
Connection by cable	Phillips n° 2 and Ø6 mm Flexible or solid cable with or without cable end		mm²	Min: 1 x 1; Max: 2 x 2.5				Max: 2 x 2.5
Tightening torque			N.m	1.7				
Spring terminal connections	Flexible or solid cable without cable end		mm²	Max: 2 x 2.5				

Instantaneous and time delay contact characteristics

Number of contacts				1, 2 or 4	2	2	2	2 or 4
Rated operational voltage (Ue)	Up to		V	690				
Rated insulation voltage (Ui)	Conforming to IEC 60947-5-1		V	690				
	Conforming to UL, CSA		V	600				
Conventional thermal current (Ith)	For ambient temperature ≤ 60 °C		A	10				
Frequency of the operational current			Hz	25…400				
Minimum switching capacity		U min	V	17				
		I min	mA	5				1
Short-circuit protection	Conforming to IEC 60947-5-1 gG fuse		A	10				
Rated making capacity	Conforming to IEC 60947-5-1	I rms	A	∼: 140; ⎓: 250				
Short-time rating	Permissible for	1 s	A	100				
		500 ms	A	120				
		100 ms	A	140				
Insulation resistance			MΩ	> 10				
Non-overlap time	Guaranteed between N/C and N/O contacts		ms	1.5 (on energisation and on de-energisation)				
Overlap time	Guaranteed between N/C and N/O contacts on LADC22		ms	1.5	–	–	–	–
Time delay (LADT, R and S contact blocks) Accuracy only valid for setting range indicated on the front face	Ambient air temperature for operation		°C	–	-40…+70	-40…+70	–	–
	Repeat accuracy			–	±2 %	±2 %	–	–
	Drift up to 0.5 million operating cycles			–	+15 %	+15 %	–	–
	Drift depending on ambient air temperature			–	0.25 % per °C	0.25 % per °C	–	–
Mechanical durability	In millions of operating cycles			30	5	5	30	30
Operational power of contacts				See page A1/35				See page A1/36
Degree of pollution				IP20				IP50 (2)

(1) NC on-delay up to 200 ms under extreme low temperature: -40 to -25 °C.
(2) IP50 for the contacts only, after installed on contactor.

Characteristics

Environment

Contact block type (dust/damp protected)			LA1DX	LA1DZ (4 contacts: 2 protected + 2 non protected)		LA1DY
			Protected	Protected	Non protected	Protected
Conforming to standards			IEC/EN 60947-5-1, UL 60947-5-1, CSA C22.2 n° 60947-5-1, GB/T 14048.5			
Product certifications			UL, CSA, CCC, EAC, UKCA, CB certification			
Degree of protection	Conforming to IEC 60529		Protection against direct finger contact IP 2X			
Ambient air temperature	Storage and operation	**°C**	-25…+70			
Cabling	Phillips n° 2 and Ø6 mm Flexible or solid conductor with or without cable end	**mm²**	Min: 1 x 1; max: 2 x 2.5			
Tightening torque		**N.m**	1.7			
Number of contacts			2	2	2	2

Contact characteristics

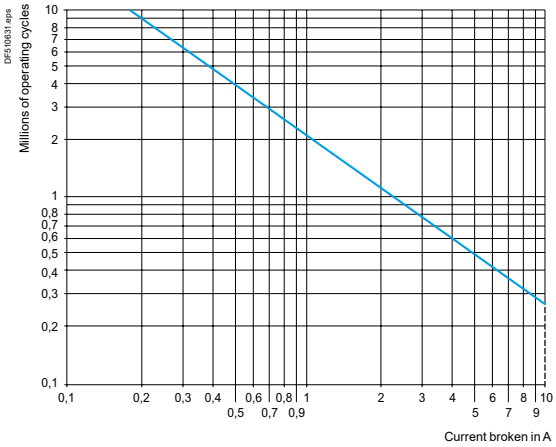
Rated operational voltage (Ue)	Up to		**V AC**	125	125	690	125
			V DC	30	30		30
Rated insulation voltage (Ui)	Conforming to IEC 60947-5-1		**V**	250	250	690	250
	Conforming to UL, CSA		**V**	–	–	600	–
Conventional thermal current (Ith)	For ambient temperature ≤ 40 °C		**A**	–	–	10	–
Maximum operational current (Ie)			**mA**	100	100	–	100
Frequency of the operational current			**Hz**	–	–	25…400	–
Minimum switching capacity		U min	**V**	5	5	17	5
		I min	**mA**	1	1	5	1
Short-circuit protection	Conforming to IEC 609475-1 gG fuse		**A**	–	–	10	–
Rated making capacity	Conforming to IEC 609475-1	I rms	**A**	–	–	∿:140; ⎓: 250	–
Short-time rating	Permissible for	1 s	**A**	–	–	100	–
		500 ms	**A**	–	–	120	–
		100 ms	**A**	–	–	140	–
Insulation resistance			**MΩ**	> 10	> 10	> 10	> 10
Mechanical durability	In millions of operating cycles			5	5	30	5
Materials and technology used for dust and damp protected contacts				Gold alloy - Single break	Gold alloy - Single break	–	Gold alloy - Single break with crossed bars

Rated operational power of not dust/damp protected contacts (conforming to IEC 60947-5-1)

a.c. supply, categories AC-14 and AC-15

Electrical durability (valid for up to 3600 operating cycles/hour) on an inductive load such as the coil of an electromagnet: making current (cos ϕ 0.7) = 10 times the power broken (cos ϕ 0.4).

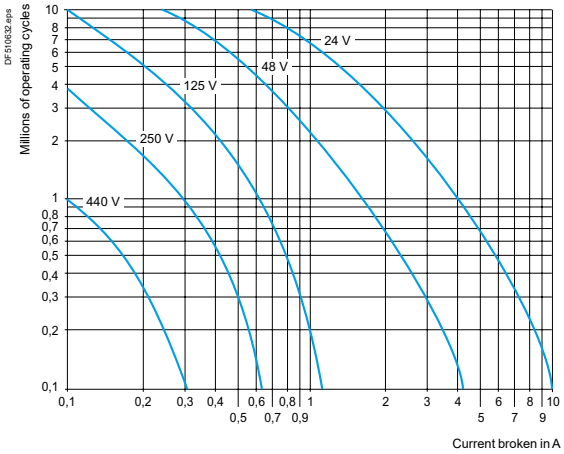
Operating cycles	V	24	48	115	230	400	440	600
1 million	**VA**	60	120	280	560	960	1050	1440
3 million	**VA**	16	32	80	160	280	300	420
10 million	**VA**	4	8	20	40	70	80	100



d.c. supply, category DC-13

Electrical durability (valid for up to 1200 operating cycles/hour) on an inductive load such as the coil of an electromagnet, without economy resistor, the time constant increasing with the load.

Operating cycles	V	24	48	125	250	440
1 million	**W**	96	76	76	76	44
3 million	**W**	48	38	38	32	–
10 million	**W**	14	12	12	–	–

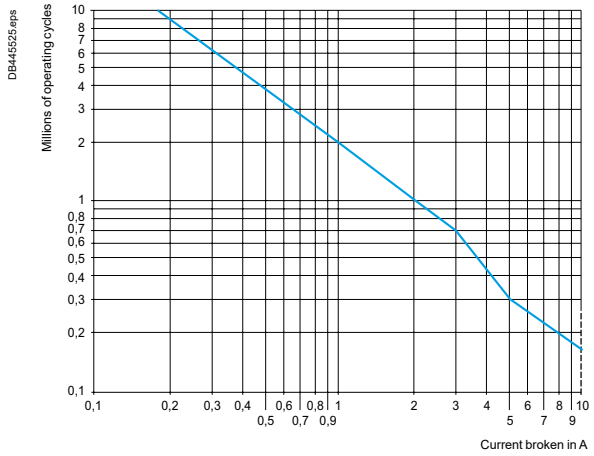


LADN...R Rated operational power of dust/damp protected contacts (conforming to IEC 60947-5-1)

a.c. supply, categories AC-14 and AC-15

Electrical durability (valid for up to 3600 operating cycles/hour when current less than 1A, up to 1800 operation cycles/hour when current more than 1A) on an inductive load such as the coil of an electromagnet: making current (cos ϕ 0.7) = 10 times the power broken (cos ϕ 0.4) same with LADN

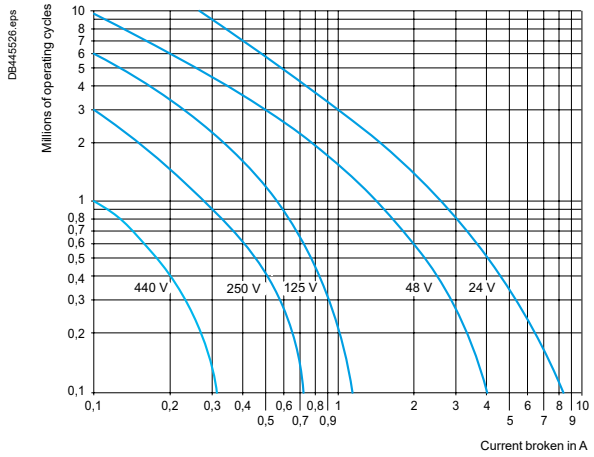
Operating cycles	V	24	48	115	230	400	440	600
1 million	**VA**	60	120	280	560	800	880	1200
2 million	**VA**	20	40	92	184	320	352	480
3 million	**VA**	16	32	80	160	280	300	420



d.c. supply, category DC-13

Electrical durability (valid for up to 1200 operating cycles/hour) on an inductive load such as the coil of an electromagnet, without economy resistor, the time constant increasing with the load.

Operating cycles	V	24	48	125	250	440
0.5 million	**W**	96	100	95	110	70
1 million	**W**	54	60	60	60	44
2 million	**W**	34	36	38	38	–
3 million	**W**	24	24	25	25	–



Characteristics

Environment

Conforming to standards			IEC/EN 60947-5-1, UL 60947-5-1, CSA C22.2 n° 60947-5-1, GB/T 14048.5
Product certifications			UL, CSA
Degree of protection	Conforming to IEC 60529		Protection against direct finger contact IP2X
Ambient air temperature around the device	Storage	°C	-40…+80
	Operation	°C	-25…+55
	Permissible for operation at Uc	°C	-25…+70

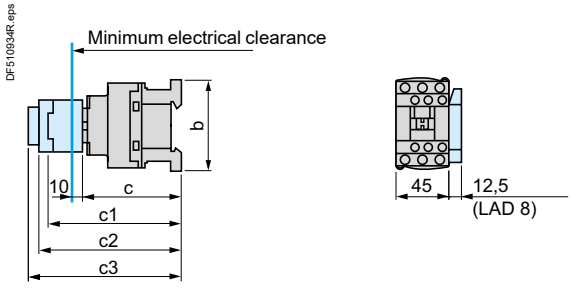
Mechanical latch blocks (1) Deca Advanced contactors

Mechanical latch block type			LAD6K10	LAD6K20
For use on contactor			LC1D09…D80A LC1DT60A...DT80A	LC1D115A…D150A LC1DT200A
Product certifications			UL, CSA	UL, CSA
Rated insulation voltage	Conforming to IEC 60947-5-1	V	690	690
Rated control circuit voltage	∿ 50/60 Hz and ⎓	V	24…415	24…415
Power required	For unlatching ∿	VA	25	25
	⎓	W	30	30
Maximum operating rate	In operating cycles/hour		1200	1200
On-load factor			10 %	10 %
Mechanical durability at Uc	In millions of operating cycles		0.5	0.1

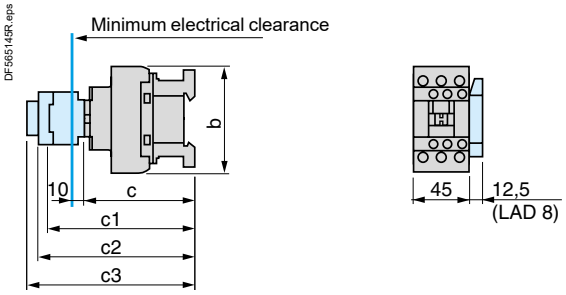
(1) Unlatching can be manually operated or electrically controlled (pulsed).
*The **LAD6K** latch coil and the **LC1D** operating coil must not be energised simultaneously.*
*The duration of the **LAD6K** and **LC1D** control signals must be ⩾ 100 ms.*

Dimensions

LC1D09…D18 (3-pole), with AC/DC compatible coil

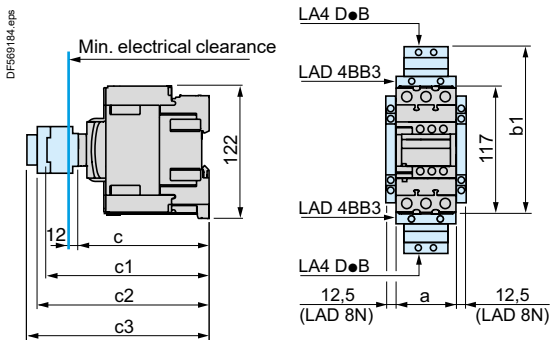


LC1D25…D38 (3-pole), with AC/DC compatible coil



LC1		**D09…D18**	**D25…D38**
b	without add-on blocks	77	85
c	without cover or add-on blocks	84	90
	with cover, without add-on blocks	86	92
c1	with LADN or C (2 or 4 contacts)	117	123
c2	with LAD6K10	129	135
c3	with LADT, R, S	137	143
	with LADT, R, S and sealing cover	141	147

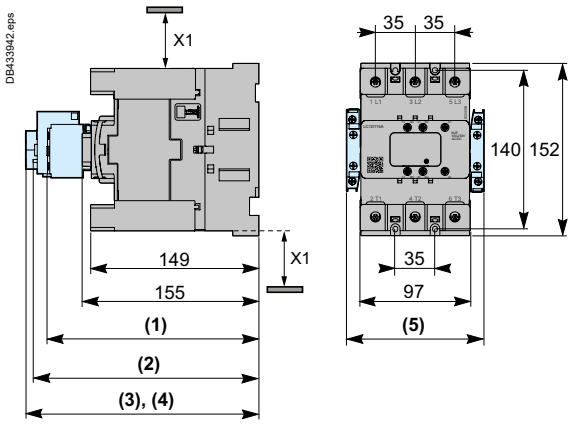
LC1D40A…D80A (3-pole), **LC1DT60A…DT80A** (4-pole), with AC/DC compatible coil



LC1		**D40A…D80A**	**DT60A…DT80A**
a		55	70
b1	LAD4BB3	136	–
c	without cover or add-on blocks	118	118
	with cover, without add-on blocks	120	120
c1	with LADN (1 contact)	–	–
	with LADN or C (2 or 4 contacts)	150	150
c2	with LAD6K10	163	163
c3	with LADT, R, S	171	171
	with LADT, R, S and sealing cover	175	175

Dimensions

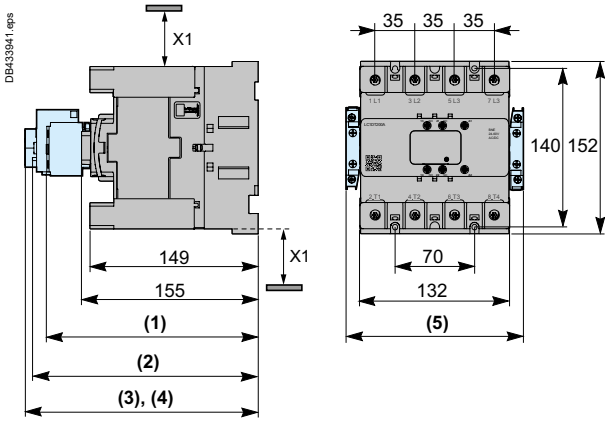
LC1D115A & D150A (3-pole)



All dimensions are in mm.

(1)	LC1D●●●A+LADN+LADC	187
(2)	LC1D●●●A+LAD6K20	196
(3)	LC1D●●●A+LADT+LADR+LADS	205
(4)	LC1D●●●A+LADT+LADR+LADS+LA9D901	209
(5)	LC1D●●●A+(2x LAD8N)	120
X1	Minimum electrical clearance	40

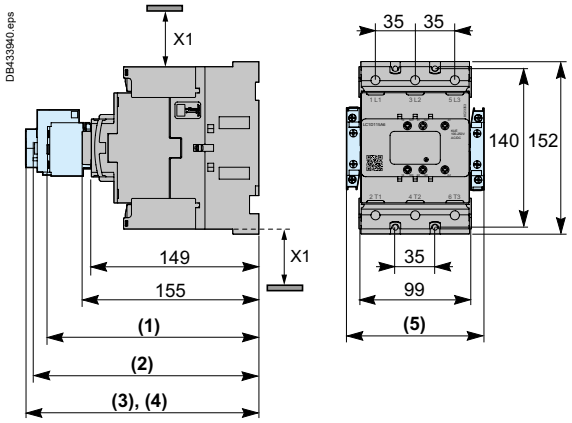
LC1DT200A (4-pole)



All dimensions are in mm.

(1)	LC1DT200A+LADN+LADC	187
(2)	LC1DT200A+LAD6K20	196
(3)	LC1DT200A+LADT+LADR+LADS	205
(4)	LC1DT200A+LADT+LADR+LADS+LA9D901	209
(5)	LC1DT200A+(2x LAD8N)	155
X1	Minimum electrical clearance	40

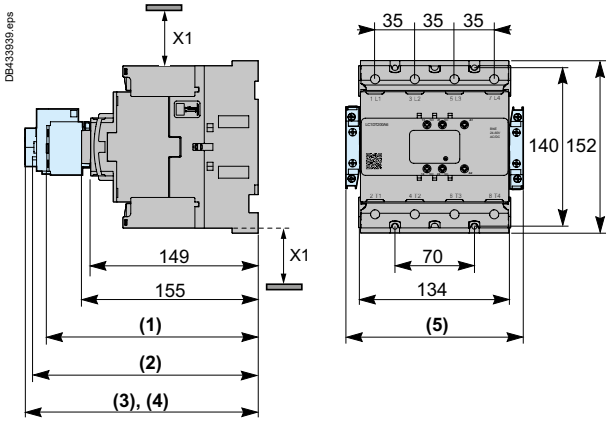
LC1D115A6 & D150A6 (3-pole)



All dimensions are in mm.

(1)	LC1D●●●A6+LADN+LADC	187
(2)	LC1D●●●A6+LAD6K20	196
(3)	LC1D●●●A6+LADT+LADR+LADS	205
(4)	LC1D●●●A6+LADT+LADR+LADS+LA9D901	209
(5)	LC1D●●●A6+(2x LAD8N)	120
X1	Minimum electrical clearance	40

LC1DT200A6 (4-pole)



All dimensions are in mm.

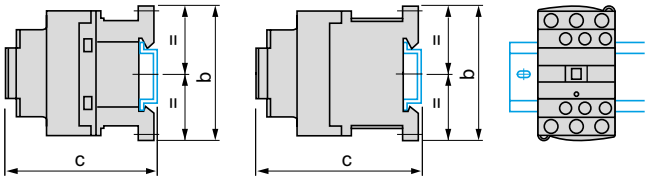
(1)	LC1DT200A6+LADN+LADC	187
(2)	LC1DT200A6+LA6DK20	196
(3)	LC1DT200A6+LADT+LADR+LADS	205
(4)	LC1DT200A6+LADT+LADR+LADS+LA9D901	209
(5)	LC1DT200A6+(2x LAD8N)	155
X1	Minimum electrical clearance	40

Mounting

LC1D09…D38 (3-pole), with AC/DC compatible coil

On mounting rail NSYSDR200B, NSYSDR200BD or NSYSDR200 (width 35 mm)

8106l0.eps

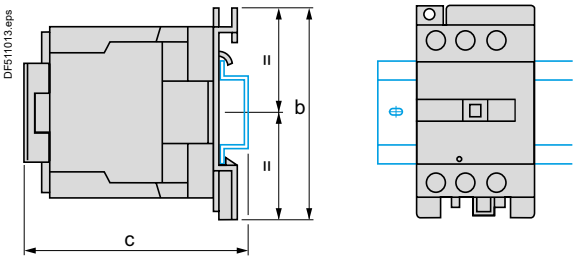


LC1	D09…D18	D25…D38
b	77	85
c (NSYSDR200B or NSYSDR200BD)	88	94
c (NSYSDR200)	96	102

LC1D40A…D80A (3-pole), **LC1DT60A** and **DT80A** (4-pole), with AC/DC compatible coil

On mounting rail AM1DL201 (width 75 mm) [2]
On mounting rail NSSDPR●● or NSYSDR200 (width 35 mm)

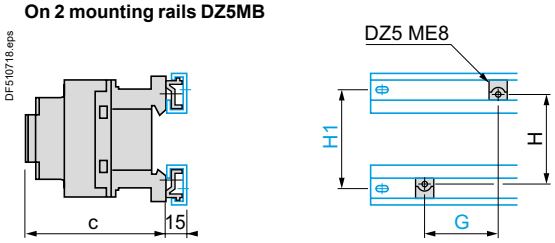
DF511013.eps



LC1	D40A…D80A DT60A…DT80A
b	122
c	–
c (AM1DL201)	–
c (NSSDPR●● or NSYSDR200)	128

LC1D09…D38 (3-pole), with AC/DC compatible coil

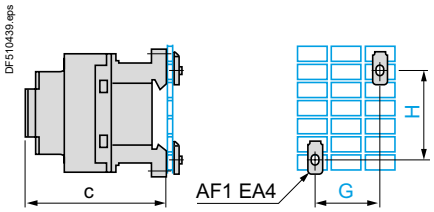
On 2 mounting rails DZ5MB



LC1	D09…D18	D25…D38
c with cover	86	92
G	35	35
H	60	60
H1	70	70

LC1D09…D38 (3-pole), with AC/DC compatible coil

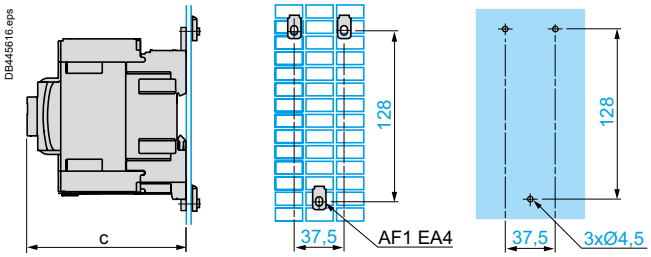
On pre-slotted mounting plate AM1PA, PB, PC



LC1	D09…D18	D25…D38
c with cover	86	92
G	35	35
H	60/70	60/70

LC1D40A…D80A (3-pole), **LC1DT60A…DT80A** (4-pole), with AC/DC compatible coil

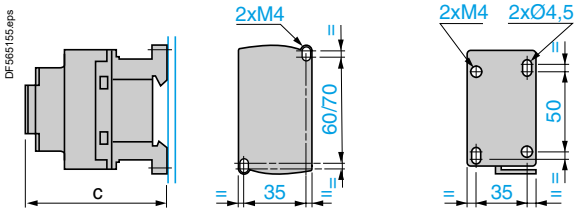
On pre-slotted mounting plate AM1PA, PB, PC or panel mounted



LC1	D40A…D80A, DT60A…DT80A
c with cover	120

LC1D09…D38 (3-pole), with AC/DC compatible coil

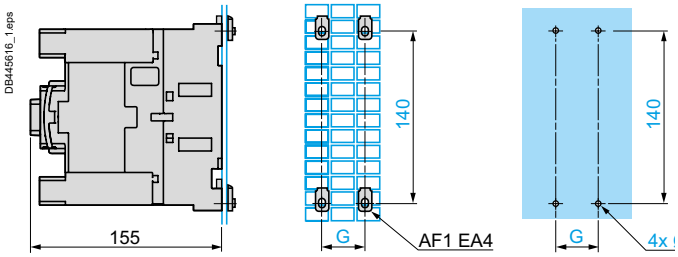
Panel mounted



LC1	D09…D18	D25…D38
c with cover	86	92

LC1D115A…D150A (3-pole), **LC1DT200A** (4-pole), with AC/DC compatible coil

On pre-slotted mounting plate AM1PA, PB, PC and panel mounted



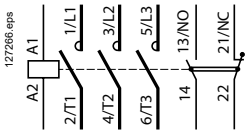
LC1	D115A	D115A6	D150A	D150A6	DT200A	DT200A6
G (3-pole)	35	35	35	35		
G (4-pole)					70	70

Schemes

Contactors

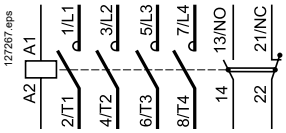
Deca Advanced 3-pole contactors (References: pages A1/9 to A1/10)

LC1D09 to D150A



Deca 4-pole contactors (References: page A1/10)

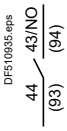
LC1DT60 to DT200A



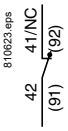
Front mounting add-on contact blocks

Instantaneous auxiliary contacts for Deca Advanced contactors (References: page A1/15)

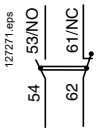
1 N/O LADN10 (1)



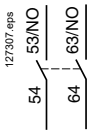
1 N/C LADN01 (1)



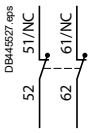
1 N/O + 1 N/C LADN11, LADN11R



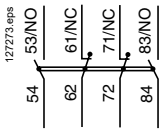
2 N/O LADN20, LADN20R



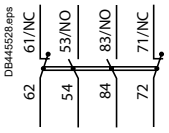
2 N/C LADN02



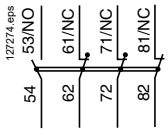
2 N/O + 2 N/C LADN22



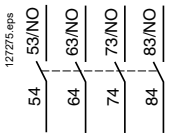
2 N/O + 2 N/C LADN22R



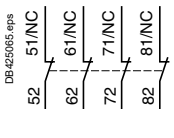
1 N/O + 3 N/C LADN13



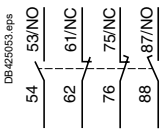
4 N/O LADN40, LADN40R



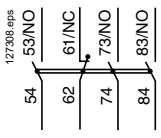
4 N/C LADN04



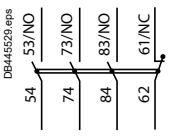
2 N/O + 2 N/C including 1 N/O + 1 N/C make before break LADC22



3 N/O + 1 N/C LADN31

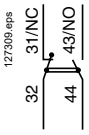


3 N/O + 1 N/C LADN31R

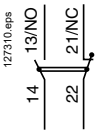


Instantaneous auxiliary contacts conforming to standard EN 50012 for Deca Advanced contactors (References: page A1/15)

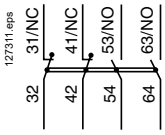
1 N/O + 1 N/C LADN11G



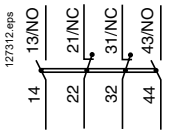
1 N/O + 1 N/C LADN11P



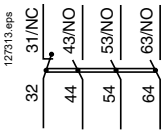
2 N/O + 2 N/C LADN22G



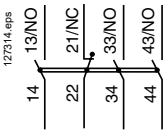
2 N/O + 2 N/C LADN22P



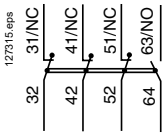
3 N/O + 1 N/C LADN31G



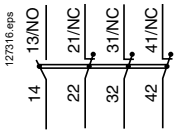
3 N/O + 1 N/C LADN31P



1 N/O + 3 N/C LADN13G



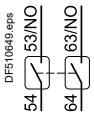
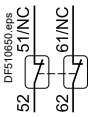
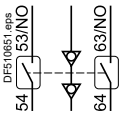
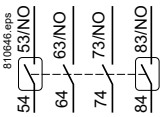
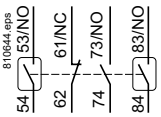
1 N/O + 3 N/C LADN13P



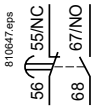
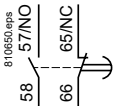
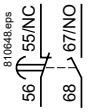
(1) Items in brackets refer to blocks mounted on right-hand side of contactor.

Front mounting add-on contact blocks for Deca Advanced contactors

Dust and damp protected instantaneous auxiliary contacts (References: page A1/15)

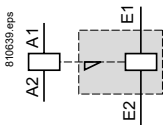
2 N/O (24-50 V) LA1DX20	2 N/C (24-50 V) LA1DX02	2 N/O (5-24V) with 2 cable screen terminals LA1DY20	2 N/O protected (24-50 V) 2 N/O standard LA1DZ40	2 N/O protected (24-50 V) + 1 N/O + 1 N/C standard LA1DZ31
				

Time delay auxiliary contacts (References: page A1/17)

On-delay 1 N/O + 1 N/C LADT	Off-delay 1 N/O + 1 N/C LADR	On-delay 1 N/C + 1 N/O break before make LADS
		

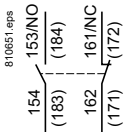
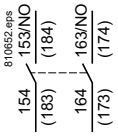
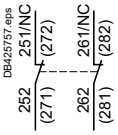
Mechanical latch blocks for Deca Advanced contactors (References: page A1/17)

LAD6K10 and LA6DK20



Side mounting add-on contact blocks for Deca Advanced contactors

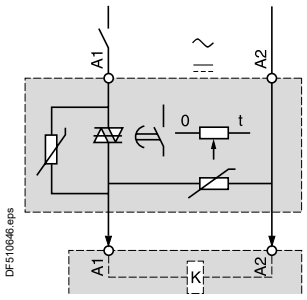
Instantaneous auxiliary contacts (References: page A1/15)

1 N/O + 1 N/C LAD8N11 (1)	2 N/O LAD8N20 (1)	2 N/C LAD8N02 (1)
		

(1) Items in brackets refer to blocks mounted on right-hand side of contactor.

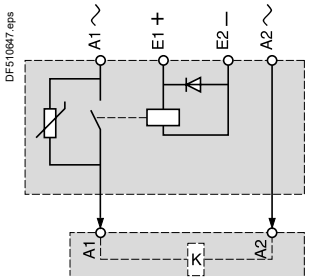
Electronic serial timer modules for Deca Advanced contactors

On-delay LA4DT●U

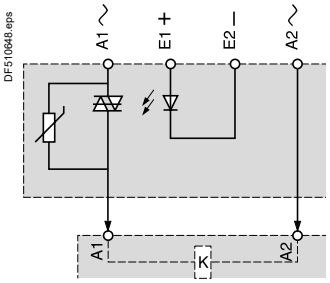


Interface modules

Relay output for Deca contactors
LA4DFB



Solid state for Deca Advanced contactors
LA4DWB

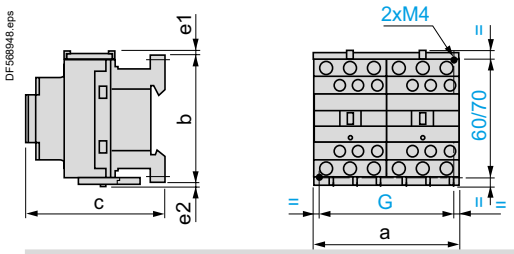


References: page A1/43.

Dimensions

LC2D09 to D38 Deca Advanced contactors

2 x **LC1D09 to D38**



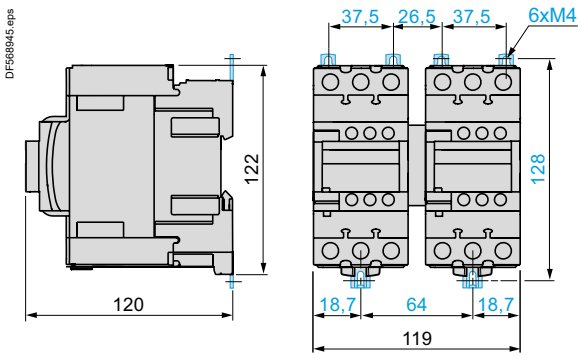
LC2 or 2 x **LC1**	**a**	**b**	**c** (1)	**e1**	**e2**	**G**
D09 to D18 AC, AC/DC	90	77	86	4	1.5	**80**
D093 to D123 AC	90	99	86	–	–	**80**
D09 to D18 DC	90	77	95	4	1.5	**80**
D093 to D123 DC	90	99	95	–	–	**80**
D25 to D38 AC, AC/DC	90	85	92	9	5	**80**
D183 to D383 AC	90	99	92	–	–	**80**
D25 to D32 DC	90	85	101	9	5	**80**
D183 to D383 DC	90	99	101	–	–	**80**

e1 and e2: including cabling.

(1) With safety cover, without add-on block.

LC2D40A to D80A for Deca Advanced contactors

2 x **LC1D40A to D80A**

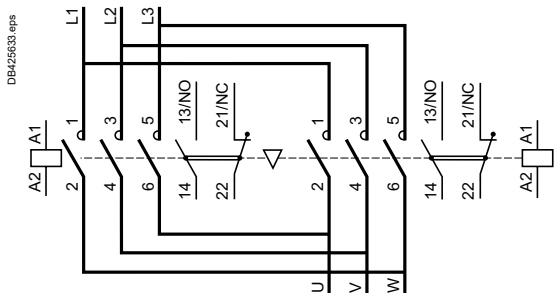


Schemes

Reversing contactors for motor control

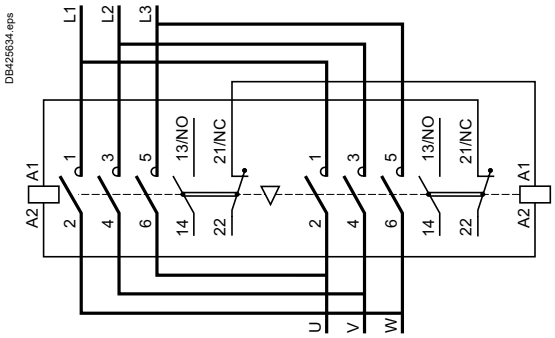
LC2D09...D80A Deca Advanced contactors

Horizontally mounted



LAD9R1V, Deca Advanced contactors

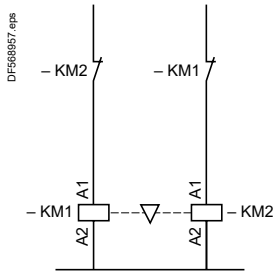
With integral electrical interlocking



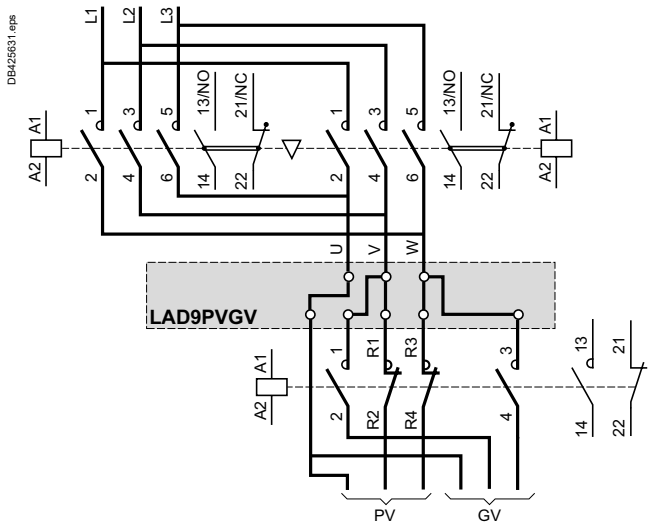
Electrical interlocking of Deca Advanced reversing contactors fitted with:

Mechanical interlock without integral electrical contacts

LAD9V2, LAD4CM, LAD5CM



Low speed - High speed cabling kit, screw clamp terminals for LC1D09... D38 contactors (Deca Advanced)



TeSys Control
Giga High Power Contactors

Chapter
A2

Product references – coding principle

> TeSys Giga Contactors

LC1	G	185	4	EHE	N
Contactor	**TeSys Giga series**	**Contactor rating** 115: 115 A 150: 150 A 185: 185 A 225: 225 A 265: 265 A 330: 330 A 400: 400 A 500: 500 A 630: 630 A 800: 800 A	**Poles** Blank: 3-pole 4: 4-pole	**Control voltage (AC/DC)** **Advanced version (A)** BEE: 24…48 V (1) EHE: 48...130 V LSE: 200…500 V **Standard version (N)** EHE: 48…130 V KUE: 100…250 V	**Offer type** A: Advanced version N: Standard version

Example:

LC1G4004LSEA - TeSys Giga Contactor Advanced version 400 A, 4-pole, 200…500 V AC/DC coil, with PLC control.

LC1G1854EHEN - TeSys Giga Contactor Standard version 185 A, 4-pole, 48…130 V AC/DC coil, without PLC control.

(1) 24...48 V AC/DC control voltage option is available for LC1G115...LC1G500 ratings.

> Quality and Performance as high priority

TeSys Giga
A new Generation series with digital innovation

Over more than 4 decades, the **TeSys F** range of contactors has built a high reputation for performance, reliability, and quality. The **TeSys F** range set the industrial standard for high power contactors with an installed base of millions of products. **TeSys F** contactors were the first choice of many OEMs, control panel builders and industrial users.

But industry requirements have evolved to demand process performance monitoring through data networks and online expert services.

TeSys Giga is Schneider Electric's new range of contactors that answer these evolving needs. TeSys Giga High power contactors support the evolution of processes and offer new services to reduce non-production time to a minimum. Replacing **TeSys F** Contactors, TeSys Giga High power contactors address a wide range of demanding applications with built-in advanced features and functionalities.

Futuristic ready…

TeSys Giga High power contactors are designed to work with components and accessories with advanced performance. The characteristics of robustness and longevity are maintained, both in the connectors and in the switching.

Continuous local and remote monitoring of contact wear optimizes predictive maintenance by allowing you to replace contacts only when necessary, facilitated by diagnostic visual indicator.

Every customer will benefit from the innovative design and feature, including the compact size, wideband electronic coils, embedded auxiliary contact blocks, ergonomic design, or flexibility in connections.

> Applications

AC-3/AC-3e utilization category

AC-1 utilization category

- TeSys Giga High power contactors provide robust control solutions for AC-3/AC-3e applications up to 800 A and AC-1 applications up to 1050 A.
- TeSys Giga High power contactors can be part of a direct-on-line motor starter, reversing motor starter or a Star-Delta motor starter and power switching application.
- TeSys Giga High power contactors provide contact wear diagnostic and wideband AC/DC control.
- Suitable for type 2 coordination as per IEC 60947-4-1.

> Right choice for a wide range of demanding applications

TeSys Giga High power contactors ' unique design meets the common requirements of demanding high power applications:

- Conform to multi standards to suit global needs
- Long life expectancy in harsh environments
- Suitable for high efficiency motors
- Very good resistance to vibrations
- High uptime thanks to predictive maintenance
- Optimized installation and maintainability.

> Intelligent design for greater advantages

- Interlock location, with knock-out cover
- On/Off switch for PLC input
- Push-in type control terminals enabling quick wiring and assembly
- Diagnosis LED for contact wear & voltage abnormality
- Built-in 1 NO + 1 NC auxiliary contact block
- Unique QR code providing quick access to complete product data
- Mechanical indicator for contactor open and closed status

Higher flexibility

TeSys Giga High power contactors can be mounted in different orientation without derating, providing high flexibility of your panel design.

Control wiring, auxiliary contacts and control module are accessible from the front.

Contact wear diagnostic and predictive maintenance

Contact wear is monitored by a dedicated module and shown in the front panel through LED, therefore the, predictive maintenance can be planned for replacing the complete set of switching modules, thus avoiding break-down maintenance. Switching modules (1) can be replaced quickly and easily thanks to their Plug and Play design.

(1) Refer to page A2/21 for details on switching modules.

> Key features

Advanced contactor control

- The electronic control module provides wideband AC/DC coil control voltage, from 24 V to 500 V, allowing quick adaptation of existing industrial processes as well as new projects.
- The low power consumption of the coils could lead to significant savings on automation equipment. It's now possible to use interface relays with a lower rating, resulting in lower heat emission in the panel.
- The low power consumption of the coils also takes up less space in the panel and simplifies the diagrams by connecting these coils directly to the output cards of the PLCs.

Simplified wiring

- The pole pitch of the power terminals allows direct mounting and connection to **TeSys** Giga Electronic Overload Relays. Standardization of panel mounting and assembly reduces costs and assembly time.
- Push-in connection for control terminals provides flexibility, ease of connections, and reduced assembly and installation time.

Enhanced durability

- Durability is a top priority. **TeSys** Giga High power contactors are designed to offer uncompromising robustness and maintenance accessibility to site technicians. The duration of production down-time is reduced, resulting in improved profitability on your investment.

Advanced diagnostic features

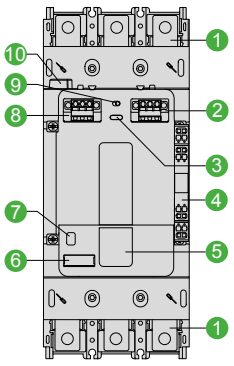
- On-board diagnostics is a new feature in our latest generation of high power contactors. Counting the number of operations as well as monitoring duration of use and pole condition provides numerous benefits for the customer and improves reliability and maintenance planning.

Compact size

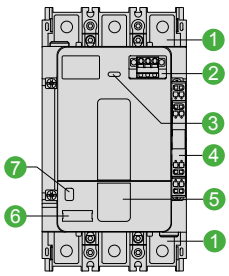
- Compact size provides easy access to power connections for connecting cables and busbars.

Easy maintenance

- The poles are designed as replaceable switching modules, so the performance of a used contactor can be fully restored. The modular design allows a quick and long-lasting replacement.
- Coils are accessible from the front and maintained with very low down times.



Advanced (*A) version



Standard (*N) version

1. Power connection (cable memory kit provided with Advanced version contactor)
2. A1-A2 coil terminal
3. Contact wear diagnosis LED
4. 1 NO + 1 NC auxiliary contact
5. QR code
6. Label holder
7. Status indicator
8. PLC control terminal
9. PLC control ON/OFF switch
10. Connector for Remote Wear Diagnostic (RWD) module

*: contactor references finishing by A or by N.

A comprehensive range of TeSys Giga High power contactors that are available in 'Advanced' and 'Standard' versions, in 3 sizes, covering several ratings.
A common range of auxiliary contacts and accessories, enabling high flexibility and simplicity.

> **TeSys** Giga High power contactors – Advanced version

115…225 A

265…500 A

630…800 A

Power & control
- 3 or 4 power poles
- 115 to 800 A (AC-3)
- 250 to 1050 A (AC-1)
- Embedded 1 NO + 1 NC auxiliary contacts
- Push-in type terminals for coils & control

Remote control
- 24-48 V, 48-130 V, 200-500 V AC/DC coils
- Low consumption coils
- Wide voltage range coils (direct coil control)
- Digital control input (PLC output digital coil control)
- Embedded surge suppressor

Diagnostic
- Embedded wear diagnostic
- Embedded control voltages diagnostic
- Self diagnosis function
- Local alarm signaling (LED)
- Remote wear diagnostic signaling kit (accessory)

Mounting
- 'Cable memory' adapter enables maintenance without removing power cables and busbar connections.

Standards and Certifications
- Multiple standards
- International certifications

> **TeSys** Giga High power contactors – Standard version

115…225 A

265…500 A

630…800 A

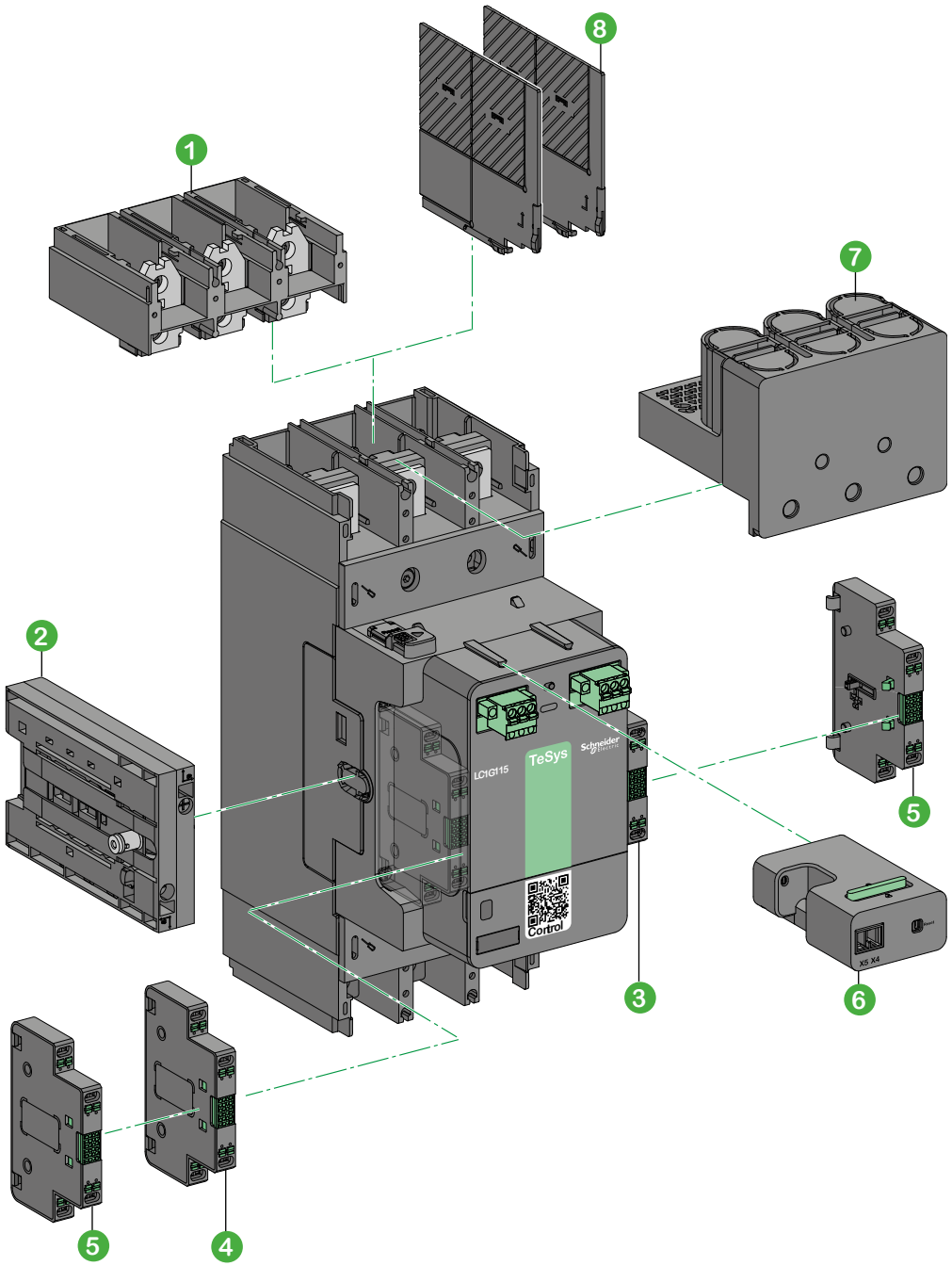
Power & control
- 3 or 4 power poles
- 115 to 800 A (AC-3)
- 250 to 1050 A (AC-1)
- Embedded 1 NO + 1 NC auxiliary contacts
- Push-in type terminals for coils & control

Remote control
- 48-130 V, 100-250 V AC/DC coils
- Wide voltage range coils (direct coil control)
- Embedded surge-suppressor

Diagnostic
- Embedded wear diagnostic
- Embedded control voltages diagnostic
- Self diagnosis function
- Local alarm signaling (LED)

Certifications
- Multiple standards
- International certifications

DB438441.ai



1 Cable memory kit **LA9G3102,** is always supplied along with Advanced version, and it's an optional accessory for Standard version.
2 Mechanical interlock **LA9G970**, can be installed on either side of the contactor.
3 Auxiliary contact module **LAG8N113P** (1 NO + 1 NC) supplied with LC1G contactor.
4 Auxiliary contact modules **LAG8N113P/ LAG8N203P,** can be installed on the contactor lateral faces (1)
5 Auxiliary contact modules **LAG8N113 / LAG8N203**, can be installed on either side as 2nd set of contacts.
6 Remote Wear Diagnostic (RWD) Module **LA9GRD01/ LA9GRD10**, can be installed and used only in Advanced version.
7 IP20 terminal shroud **LA9G3701.**
8 Phase separators **LA9G3801**, please refer to pages A2/14 to A2/18 for complete details of available accessories.

Note: a maximum of 2 auxiliary contact modules can be mounted on each side of the contactor.
(1) Does not increase the contactor dimensions when fitted on both sides.

TeSys Giga 3-pole Advanced contactors – For motor control (115 to 800 A)

Motor ratings (kW) θ ≤ 60 °C IEC																						
AC-3							AC-3e [1]							AC-4								
230 V	400 V	415 V	440 V	500 V	690 V	1000 V	230 V	400 V	415 V	440 V	500 V	690 V	1000 V	230 V	400 V	415 V	440 V	500 V	690 V	1000 V		
kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW		
30	55	55	75	75	75	-	30	55	55	75	75	75	-	30	55	55	65	65	75	-		
37	75	75	90	90	90	75	37	75	75	90	90	90	75	37	75	75	80	90	90	75		
55	90	90	110	110	110	75	55	90	90	110	110	110	75	55	90	90	100	110	110	75		
55	110	110	132	132	160	132	55	110	110	132	132	160	132	55	110	110	129	132	132	110		
75	132	132	160	160	200	160	75	132	132	160	160	200	160	75	132	132	150	160	160	160		
90	160	160	200	200	220	185	90	160	160	185	200	220	185	90	160	160	185	200	220	185		
110	200	200	250	250	315	220	110	200	200	250	250	315	220	110	200	200	220	250	315	220		
160	250	250	315	355	355	335	147	250	250	280	315	355	335	150	250	250	295	295	355	280		
200	335	375	400	400	500	450	180	315	335	355	375	500	450	180	315	335	355	375	450	355		
250	450	450	450	500	560	450	200	335	355	375	425	560	450	200	375	355	375	400	475	400		

Double Page Table

TeSys Giga 3-pole and 4-pole Advanced contactors for load control only (non motor) – (250 to 1050 A)

Maximum current (A) (θ ≤ 40 °C)	General purpose continuous current (A)	Reference Advanced version contactors AC/DC coil voltage					
		3-pole			4-pole		
IEC AC-1	UL	24…48 V	48…130 V	200…500 V	24…48 V	48…130 V	200…500 V
250	210	LC1G115BEEA	LC1G115EHEA	LC1G115LSEA	LC1G1154BEEA	LC1G1154EHEA	LC1G1154LSEA
275	230	LC1G150BEEA	LC1G150EHEA	LC1G150LSEA	LC1G1504BEEA	LC1G1504EHEA	LC1G1504LSEA
305	250	LC1G185BEEA	LC1G185EHEA	LC1G185LSEA	LC1G1854BEEA	LC1G1854EHEA	LC1G1854LSEA
330	290	LC1G225BEEA	LC1G225EHEA	LC1G225LSEA	LC1G2254BEEA	LC1G2254EHEA	LC1G2254LSEA
385	340	LC1G265BEEA	LC1G265EHEA	LC1G265LSEA	LC1G2654BEEA	LC1G2654EHEA	LC1G2654LSEA
440	390	LC1G330BEEA	LC1G330EHEA	LC1G330LSEA	LC1G3304BEEA	LC1G3304EHEA	LC1G3304LSEA
550	490	LC1G400BEEA	LC1G400EHEA	LC1G400LSEA	LC1G4004BEEA	LC1G4004EHEA	LC1G4004LSEA
700	630	LC1G500BEEA	LC1G500EHEA	LC1G500LSEA	LC1G5004BEEA	LC1G5004EHEA	LC1G5004LSEA
1050	850	-	LC1G630EHEA	LC1G630LSEA	-	LC1G6304EHEA	LC1G6304LSEA
1050	900	-	LC1G800EHEA	LC1G800LSEA	-	LC1G8004EHEA	LC1G8004LSEA

(1) Switching of IE3/IE4 high efficiency squirrel-cage motors.

Product references

Motor ratings (HP) UL- 3-phase				Reference Advanced version contactors AC/DC coil voltage 3-pole		
200/208 V	230/240 V	460/480 V	575/600 V	24-48 V	48-130 V	200-500 V
30	40	75	100	**LC1G115BEEA**	**LC1G115EHEA**	**LC1G115LSEA**
40	50	100	125	**LC1G150BEEA**	**LC1G150EHEA**	**LC1G150LSEA**
50	60	125	150	**LC1G185BEEA**	**LC1G185EHEA**	**LC1G185LSEA**
60	75	150	150	**LC1G225BEEA**	**LC1G225EHEA**	**LC1G225LSEA**
75	100	200	200	**LC1G265BEEA**	**LC1G265EHEA**	**LC1G265LSEA**
100	125	250	300	**LC1G330BEEA**	**LC1G330EHEA**	**LC1G330LSEA**
125	150	300	400	**LC1G400BEEA**	**LC1G400EHEA**	**LC1G400LSEA**
150	200	400	450	**LC1G500BEEA**	**LC1G500EHEA**	**LC1G500LSEA**
250	300	600	700	-	**LC1G630EHEA**	**LC1G630LSEA**
300	350	700	800	-	**LC1G800EHEA**	**LC1G800LSEA**

TeSys Giga 3-pole Standard contactors – For motor control – (115 to 800 A)

Motor ratings (kW) θ ≤ 60 °C IEC																						
AC-3							AC-3e [1]							AC-4								
230 V	400 V	415 V	440 V	500 V	690 V	1000 V	230 V	400 V	415 V	440 V	500 V	690 V	1000 V	230 V	400 V	415 V	440 V	500 V	690 V	1000 V		
kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW		
30	55	55	75	75	75	-	30	55	55	75	75	75	-	30	55	55	65	65	75	-		
37	75	75	90	90	90	75	37	75	75	90	90	90	75	37	75	75	80	90	90	75		
55	90	90	110	110	110	75	55	90	90	110	110	110	75	55	90	90	100	110	110	75		
55	110	110	132	132	160	132	55	110	110	132	132	160	132	55	110	110	129	132	132	110		
75	132	132	160	160	200	160	75	132	132	160	160	200	160	75	132	132	150	160	160	160		
90	160	160	200	200	220	185	90	160	160	185	200	220	185	90	160	160	185	200	220	185		
110	200	200	250	250	315	220	110	200	200	250	250	315	220	110	200	200	220	250	315	220		
160	250	250	315	355	355	335	147	250	250	280	315	355	335	150	250	250	295	295	355	280		
200	335	375	400	400	500	450	180	315	335	355	375	500	450	180	315	335	355	375	450	355		
250	450	450	450	500	560	450	200	335	355	375	425	560	450	200	375	355	375	400	475	400		

Double Page Table

TeSys Giga 3-pole and 4-pole Standard contactors for load control only (non motor) – (250 to 1050 A)

Maximum current (A) (θ ≤ 40 °C)	General purpose continuous current (A)	Reference Standard version contactors AC/DC coil voltage			
		3-pole		4-pole	
IEC AC-1	UL	48…130 V	100…250 V	48…130 V	100…250 V
250	210	LC1G115EHEN	LC1G115KUEN	LC1G1154EHEN	LC1G1154KUEN
275	230	LC1G150EHEN	LC1G150KUEN	LC1G1504EHEN	LC1G1504KUEN
305	250	LC1G185EHEN	LC1G185KUEN	LC1G1854EHEN	LC1G1854KUEN
330	290	LC1G225EHEN	LC1G225KUEN	LC1G2254EHEN	LC1G2254KUEN
385	340	LC1G265EHEN	LC1G265KUEN	LC1G2654EHEN	LC1G2654KUEN
440	390	LC1G330EHEN	LC1G330KUEN	LC1G3304EHEN	LC1G3304KUEN
550	490	LC1G400EHEN	LC1G400KUEN	LC1G4004EHEN	LC1G4004KUEN
700	630	LC1G500EHEN	LC1G500KUEN	LC1G5004EHEN	LC1G5004KUEN
1050	850	LC1G630EHEN	LC1G630KUEN	LC1G6304EHEN	LC1G6304KUEN
1050	900	LC1G800EHEN	LC1G800KUEN	LC1G8004EHEN	LC1G8004KUEN

(1) Switching of IE3/IE4 high efficiency squirrel-cage motors.

Product references

	Motor ratings (HP) UL- 3-phase				Reference Standard version contactors AC/DC coil voltage 3-pole	
	200/208 V	230/240 V	460/480 V	575/600 V	48-130 V	100-250 V
	30	40	75	100	**LC1G115EHEN**	**LC1G115KUEN**
	40	50	100	125	**LC1G150EHEN**	**LC1G150KUEN**
	50	60	125	150	**LC1G185EHEN**	**LC1G185KUEN**
	60	75	150	150	**LC1G225EHEN**	**LC1G225KUEN**
	75	100	200	200	**LC1G265EHEN**	**LC1G265KUEN**
	100	125	250	300	**LC1G330EHEN**	**LC1G330KUEN**
	125	150	300	400	**LC1G400EHEN**	**LC1G400KUEN**
	150	200	400	450	**LC1G500EHEN**	**LC1G500KUEN**
	250	300	600	700	**LC1G630EHEN**	**LC1G630KUEN**
	300	350	700	800	**LC1G800EHEN**	**LC1G800KUEN**

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LAG8N113

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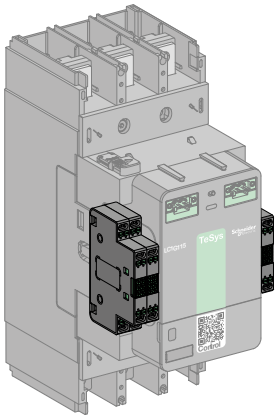

Side mounting – maximum 2 per side

Auxiliary contact modules

Auxiliary contacts give an indication of the contactor status.
They can be used for remote visual signaling, alarming, electrical locking, relay activation, etc...

Each contactor is equipped with 1 NO + 1 NC auxiliary contact block as standard.
■ Mechanically linked mirror contacts
The NC contact of the auxiliary contact block is mirror contact in conformity to IEC 60947-4-1 and it is mechanically linked to reliably represent the state of the main power contacts and wherever auxiliary contact state reliability is essential. The main power contacts and the NC of the auxiliary contact can't be closed at the same time.

Types of connections:
■ Push-in type.

Wide contactor compatibility

TeSys Giga auxiliary contact module is compatible with the whole range of TeSys Giga High power contactors .
Each TeSys Giga Contactor can be equipped with up to 4 auxiliary contact modules.

Electrical characteristics

Characteristics	
Rated thermal current (A)	10
Minimum load	1 mA at 17 V DC
Contact reliability	Failure rate $<10^{-8}$

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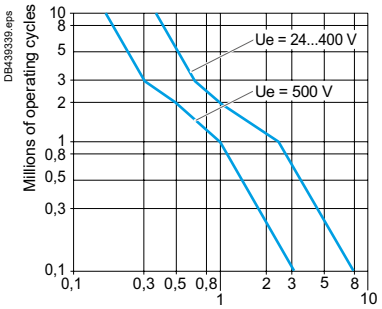

AC-15

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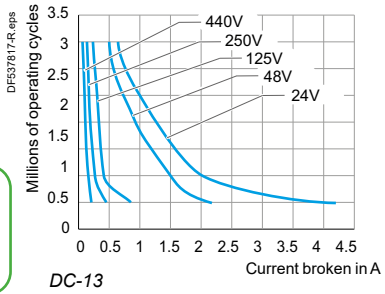

DC-13

Operational power of contacts conforming to IEC 60947-5-1 - Electrical durability

Category AC-15

Operating cycles	V	24	48	115	230	400	500
1 million	**VA**	60	120	280	560	800	500
2 million	**VA**	24	48	115	230	400	250
3 million	**VA**	16	32	80	160	280	150

Category DC-13

Operating cycles	V	24	48	125	250	440
0.5 million	**W**	100	100	105	110	88
1 million	**W**	48	72	54	54	55
2 million	**W**	24	36	38	38	39
3 million	**W**	16	24	25	25	33

Connector characteristics				
Push-in connection - Dual input				Min/max c.s.a.
Flexible cable per input	1 conductor with cable end	**mm²**		0.75...2.5
	2 conductors with Dual Sleeve	**mm²**		0.75...2.5
	Stripping length	**mm²**		10
Solid cable per input	1 conductor	**mm²**		0.75...2.5
	Stripping length	**mm**		12

Auxiliary contact modules

Description	Terminal type	Position	Type of contacts	Sold in lots of	Reference
Auxiliary contact module	Push-in	1st left or right	1 NO + 1 NC	1	**LAG8N113P** (1)
			2 NO	1	**LAG8N203P**
		2nd left or right	1 NO + 1 NC	1	**LAG8N113**
			2 NO	1	**LAG8N203**

(1) Always supplied with TeSys Giga *LC1G contactors, fitted to the right side lateral face.*

Power terminals

'Cable Memory' connection blocks

Cables or busbars can be connected to the contactor by means of the optional cable memory connection blocks. When the contactor is removed for maintenance, the cables or busbars remain connected to these connection blocks, making reinstallation faster and easier.

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LA9G3101

Cable memory (1)

Description	Compatible with contactors	Quantity Set of	Reference
'Cable memory' for 3-pole contactors – for holding cables in place	LC1G115...LC1G225	2	**LA9G3101**
	LC1G265...LC1G500	2	**LA9G3102**
	LC1G630...LC1G800	2	**LA9G3103**
'Cable memory' for 4-pole contactors – for holding cables in place	LC1G115...LC1G225	2	**LA9G4101**
	LC1G265...LC1G500	2	**LA9G4102**
	LC1G630...LC1G800	2	**LA9G4103**

(1) 'Cable memory' connection blocks are always supplied with Advanced contactor version.

Flexible terminal extensions

Flexible connecting bars to connect TeSys Giga High power contactors with MCCBs mounted in the same plane and orientation. These bars can be used along with Advanced or Standard version contactors. They help to get a quick and easy connection between contactor and MCCB with saving in installation time.

PB121735.eps

LA9G3111

'Flexible terminal extensions' for MCCBs

Description	Compatible with contactors	To connect with NSX/NS MCCBs	Quantity Set of	Reference
Flexible terminal extensions 3-pole	LC1G115…LC1G225	**NSX100...NSX250**	3	**LA9G3111**
	LC1G265…LC1G500	**NSX400…NSX630**	3	**LA9G3112**
	LC1G630…LC1G800	**NS800…NS1250**	3	**LA9G3113**
Flexible terminal extensions 4-pole	LC1G115…LC1G225	**NSX100...NSX250**	4	**LA9G4111**
	LC1G265…LC1G500	**NSX400…NSX630**	4	**LA9G4112**
	LC1G630…LC1G800	**NS800…NS1250**	4	**LA9G4113**

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LA9G3601

Straight terminal extensions

Description	Suitable for	Compatible with contactors	Quantity Set of	Reference
Straight terminal extension	3P	LC1G115...LC1G225	3	**LA9G3601**
		LC1G265...LC1G500	3	**LA9G3602**
		LC1G630...LC1G800	3	**LA9G3603**
	4P	LC1G115...LC1G225	4	**LA9G4601**
		LC1G265...LC1G500	4	**LA9G4602**
		LC1G630...LC1G800	4	**LA9G4603**

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LA9G3682

Right angled terminal extensions

Description	Suitable for	Compatible with contactors	Quantity Set of	Reference
Right angled side terminal extension	3P	LC1G115...LC1G225	3	**LA9G3661**
		LC1G265...LC1G500	3	**LA9G3662**
		LC1G630...LC1G800	3	**LA9G3663**
Right angled large terminal extension	3P	LC1G115...LC1G225	3	**LA9G3671**
		LC1G265...LC1G500	3	**LA9G3672**
		LC1G630...LC1G800	3	**LA9G3673**
Right angled rear terminal extension	3P	LC1G115...LC1G225	3	**LA9G3681**
		LC1G265...LC1G500	3	**LA9G3682**
		LC1G630...LC1G800	3	**LA9G3683**

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LA9G3631

Edgewise terminal extensions

Description	Suitable for	Compatible with contactors	Quantity Set of	Reference
Edgewise terminal extension	3P	LC1G115...LC1G225	3	**LA9G3631**
		LC1G265...LC1G500	3	**LA9G3632**
		LC1G630...LC1G800	3	**LA9G3633**
	4P	LC1G115...LC1G225	4	**LA9G4631**
		LC1G265...LC1G500	4	**LA9G4632**
		LC1G630...LC1G800	4	**LA9G4633**

Power terminals

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LA9G3611

Spreader kits

Description	Suitable for	Compatible with contactors	Increase of Pole pitch	Quantity Set of	Reference
Spreader kits	3P	LC1G115...LC1G225	35 to 45 mm	3	**LA9G3611**
		LC1G265...LC1G500	45 to 70 mm	3	**LA9G3612**
	4P	LC1G115...LC1G225	35 to 45 mm	4	**LA9G4611**
		LC1G265...LC1G500	45 to 70 mm	4	**LA9G4612**

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LA9G3613

Terminal extensions for larger power connections

Description	Suitable for	Compatible with contactors	Power connection size	Quantity Set of	Reference
Terminal connections	3P	LC1G400...LC1G500	50 mm width	3	**LA9G3613**
		LC1G630...LC1G800	80 mm width	3	**LA9G3614**
	4P	LC1G400...LC1G500	50 mm width	4	**LA9G4613**
		LC1G630...LC1G800	80 mm width	4	**LA9G4614**

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LA9G4711

Spreader kits suitable for box type connectors

Description	Suitable for	Compatible with contactors	Increase of Pole pitch	Suitable for box connectors	Quantity Set of	Reference
Spreader kits for box connectors	3P	LC1G115...LC1G225	35 to 45 mm	DZ2FJ1/FH1 & AL400	3	**LA9G3711**
		LC1G265...LC1G500	45 to 70 mm	DZ2FJ1/FK1 & AL400/AL600	3	**LA9G3712**
		LC1G630...LC1G800	70 to 80 mm	DZ2FL1/FK1 & Type S/AL600	3	**LA9G3714**
	4P	LC1G115...LC1G225	35 to 45 mm	DZ2FJ1/FH1 & AL400	4	**LA9G4711**
		LC1G265...LC1G500	45 to 70 mm	DZ2FJ1/FK1 & AL400/AL600	4	**LA9G4712**
		LC1G630...LC1G800	70 to 80 mm	DZ2FL1/FK1 & Type S/AL600	4	**LA9G4714**

Power terminal accessories

LA9G4803

Phase separators

Description	Suitable for	Compatible with contactors	Quantity Set of	Reference
Phase separators (1)	3P	LC1G115...LC1G800	2	**LA9G3801**
	4P	LC1G115...LC1G800	3	**LA9G4801**
	3P – with 50/80 mm spreaders	LC1G400...LC1G800	2	**LA9G3803** (2)
	4P – with 50/80 mm spreaders	LC1G400...LC1G800	3	**LA9G4803** (3)

LA9G4701

Terminal shrouds

Description	Compatible with contactors	Quantity Set of	Reference	
			3P	4P
IP 20 Terminal shrouds (1)	LC1G115...LC1G225	1	**LA9G3701**	**LA9G4701**
	LC1G265...LC1G500	1	**LA9G3702**	**LA9G4702**
	LC1G630...LC1G800	1	**LA9G3703**	**LA9G4703**

LA9G4707

IP20 Lug cover for connection kits (4)

Lug covers are used along with IP 20 terminal shrouds and Star-Delta, reverser and changeover connection kit assemblies to improve insulation of the coupling bars and achieve IP 20 for the complete assembly.

IP20 Lug cover for connection kits

Description	Suitable for	Compatible with contactors	Quantity Set of	Reference
IP 20 Lug cover	3P	LC1G115...LC1G800 (4)	6	**LA9G3707**
	4P	LC1G115...LC1G800 (4)	8	**LA9G4707**

LV429252

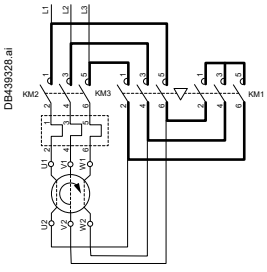
Lugs for cable set

Description	Compatible with contactors	Cable section	Reference	
			Set of 3 for 3P	Set of 4 for 4P
Lugs for cable	LC1G115...LC1G225	120 mm²	**LV429252**	**LV429256**
	LC1G115...LC1G225	150 mm²	**LV429253**	**LV429257**
	LC1G115...LC1G225	185 mm²	**LV429254**	**LV429258**
	LC1G265...LC1G500	240 mm²	**LV432500**	**LV432501**
	LC1G265...LC1G500	300 mm²	**LV432502**	**LV432503**

LA9GQQ330

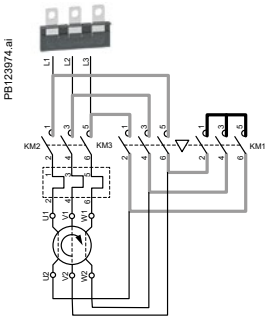
Star-Delta (Wye-Delta) connection kits (5)

Description	Suitable for	for Line (KM2) and Delta (KM3) contactor	+ Star contactor (KM1)	Reference
Connection kit: bars for Line-Delta-Star contactor assembly	3P	LC1G115...LC1G225	LC1G115...LC1G225	**LA9GQQ330**
		LC1G265...LC1G500	LC1G115...LC1G225	**LA9GSQ330**
		LC1G265...LC1G500	LC1G265...LC1G500	**LA9GSS330**
		LC1G630...LC1G800	LC1G265...LC1G500	**LA9GTS330**
		LC1G630...LC1G800	LC1G630...LC1G800	**LA9GTT330**
	with cable memory kit 3P	LC1G265...LC1G500	LC1G115...LC1G225	**LA9GSQ331**
		LC1G630...LC1G800	LC1G265...LC1G500	**LA9GTS331**



Star (Wye) connection kits (5)

Description	Suitable for	Star contactor (KM1)	Reference
Connection kit for star contactor	3P	LC1G115...LC1G225	**LA9GQW601**
		LC1G265...LC1G500	**LA9GSW601**
		LC1G630...LC1G800	**LA9GTW601**



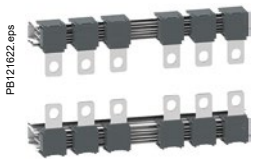
Note: ***RE17RMMWS*** *timer to be used for Star-Delta starter application.*

(1) Either phase separators or terminal shrouds can only be mounted. Phase separators or terminal shrouds are mandatory for operational voltage, Ue ≥ 690 V.
(2) To be used with ***LA9G3613*** *and* ***LA9G3614****.*
(3) To be used with ***LA9G4613*** *and* ***LA9G4614****.*
(4) ***LC1G630*** *&* ***LC1G800*** *contactors need 2 pcs. of IP20 covers per pole. So* ***2 x LA9G3707*** *or* ***2 x LA9G4707*** *need to be ordered for these contactor assemblies. Please contact your technical support for more details.*
(5) UL listed.
(6) Maximum 3 auxiliary contacts can be installed between 2 contactors with mechanical interlock kit.

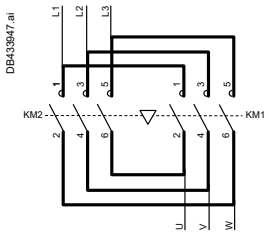
LA9G970

Mechanical interlock

Description	Suitable for	Compatible with contactors		Reference
		Contactor 1	Contactor 2	
Mechanical interlock between contactors (6)	3P and 4P	LC1G115...225	LC1G115...225	**LA9G970**
		LC1G265...500	LC1G265...500	**LA9G970**
		LC1G265...500	LC1G115...225	**LA9G971**
	3P	LC1G630...800	LC1G265...500	**LA9G972**
		LC1G630...800	LC1G630...800	**LA9G973**



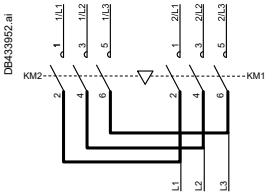
LA9G3760

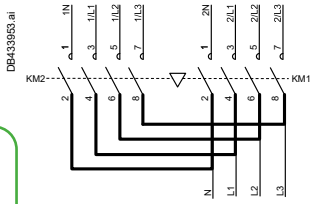


Reverser connection kits

Description	Suitable for	Compatible with contactors	Reference
Connection kit: bars for reverser contactor assembly	3P	LC1G115...LC1G225	**LA9G3760**
		LC1G265...LC1G500	**LA9G3761**
		LC1G630...LC1G800	**LA9G3762**

LA9G3750





Changeover connection kits

Description	Suitable for	Compatible with contactors	Reference
Connection kit: bars for changeover contactor assembly	3P	LC1G115...LC1G225	**LA9G3750**
		LC1G265...LC1G500	**LA9G3751**
		LC1G630...LC1G800	**LA9G3752**
	4P	LC1G115...LC1G225	**LA9G4750**
		LC1G265...LC1G500	**LA9G4751**
		LC1G630...LC1G800	**LA9G4752**

RE17RMMWS

Modular timer relay for Star-Delta starters

- 8 A, 1 CO, multifunction with spring terminals, 12...240 V AC/DC
- 17.5 mm width same size as a 1-pole circuit breaker
- Covers 0.1 s to 100 h timing
- Transparent cover to protect settings from being tampered
- Multi functional gives flexibility in maintenance

Modular timer relay for Star-Delta starters

Description	Suitable for	Compatible with contactors	Reference
Harmony, Modular timing relay	3P	LC1G115...LC1G800	**RE17RMMWS**

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LA9GRFB1

PB121742.eps

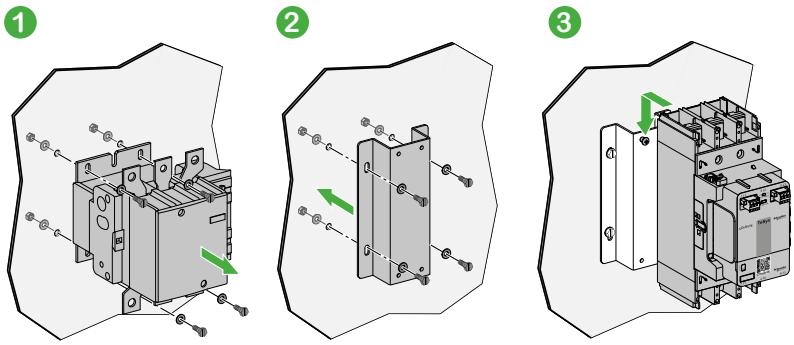
LA9GRFB2

PB121743.eps

LA9GRFB3

Retrofit bases

- Suitable for 3 pole contactors
- Retrofit bases to replace similar ratings of TeSys F contactors with TeSys Giga High power contactors
- Enables quick and simple replacement in the existing installation
- 3 references to cover ranges from LC1F115 to F800



Remove
TeSys F contactor

Install
Retrofit base

Mount TeSys Giga Contactor
on Retrofit base

TeSys Giga retrofit bases are designed for integrating new TeSys Giga High power contactors into installations using TeSys F contactors. The retrofit bases help reduce replacement and reinstallation time when you upgrade your system with the new range of contactors. The bases come in two frame sizes.

Retrofit bases

Description		Reference
Accessory used to replace TeSys F contactors	LC1F115-225 replaced by LC1G115-225	**LA9GRFB1**
	LC1F265-500 replaced by LC1G265-500	**LA9GRFB2**
	LC1F630-800 replaced by LC1G630-800	**LA9GRFB3**

PB121644.eps

LX1G3QLSEA

Control module

Wide band electronic control
24 V…500 V 50/60 Hz or DC control input
Advanced and standard versions
Accessible from the front for easy and quick replacement

The control module is needed for the operation of the contactor.
It performs the following functions:
- proper functioning of contactor based on the input control voltage
- monitoring and diagnostics of the pole condition
- generation of signaling commands.

The range of control modules is organized:
- per contactor size and for each rating,
- per control voltage range.

Each module has connectors for connecting:
- the coil control A1, A2 circuit & PLC output control (advanced version)
- pole status and diagnostic signaling circuits.

PB121744.eps

Control module replacement on a 3-pole contactor

Control modules

Description		For contactors	References per voltage range (V AC/DC)		
			24 - 48	48 - 130	200 - 500
Control modules for Advanced contactors	3-pole	LC1G115...LC1G225	**LX1G3QBEEA**	**LX1G3QEHEA**	**LX1G3QLSEA**
		LC1G265...LC1G330	**LX1G3RBEEA**	**LX1G3REHEA**	**LX1G3RLSEA**
		LC1G400...LC1G500	**LX1G3SBEEA**	**LX1G3SEHEA**	**LX1G3SLSEA**
		LC1G630...LC1G800	-	**LX1G3TEHEA**	**LX1G3TLSEA**
	4-pole	LC1G115...LC1G225	**LX1G4QBEEA**	**LX1G4QEHEA**	**LX1G4QLSEA**
		LC1G265...LC1G330	**LX1G4RBEEA**	**LX1G4REHEA**	**LX1G4RLSEA**
		LC1G400...LC1G500	**LX1G4SBEEA**	**LX1G4SEHEA**	**LX1G4SLSEA**
		LC1G630...LC1G800	-	**LX1G4TEHEA**	**LX1G4TLSEA**
			48 - 130	**100 - 250**	
Control modules for Standard contactors	3-pole	LC1G115...LC1G225	**LX1G3QEHEN**	**LX1G3QKUEN**	
		LC1G265...LC1G330	**LX1G3REHEN**	**LX1G3RKUEN**	
		LC1G400...LC1G500	**LX1G3SEHEN**	**LX1G3SKUEN**	
		LC1G630...LC1G800	**LX1G3TEHEN**	**LX1G3TKUEN**	
	4-pole	LC1G115...LC1G225	**LX1G4QEHEN**	**LX1G4QKUEN**	
		LC1G265...LC1G330	**LX1G4REHEN**	**LX1G4RKUEN**	
		LC1G400...LC1G500	**LX1G4SEHEN**	**LX1G4SKUEN**	
		LC1G630...LC1G800	**LX1G4TEHEN**	**LX1G4TKUEN**	

LA9G81_ISO.eps

LA9G81

Connector for control module

Description	Reference
Push-in terminal connector for control module	**LA9G81**

LA9GRDK_ISO.eps

LA9GRD10

Remote wear diagnostic (RWD) module

Description	Reference
Remote wear diagnostic module for TeSys Giga Contactor - 1 NO	**LA9GRD10** (1)
Remote wear diagnostic module for TeSys Giga Contactor - 1 NC	**LA9GRD01** (1)

(1) Remote Wear Diagnostic (RWD) Module, can be installed and used only on Advanced version.

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Switching module kits

Replaceable switching modules

- Innovative contact switching modules for TeSys Giga High power contactors
- Replace worn-out poles with a new switching module in minutes, without having to disassemble the whole product
- No special tools are needed for the replacement.

TeSys Giga - Switching modules for TeSys Giga High power contactors , Advanced and Standard versions

Description	For contactors		Quantity Set of	Reference
3 or 4 switching module kits	3-pole	LC1G115...LC1G225	3	**LA9G3QA**
		LC1G265...LC1G330	3	**LA9G3RA**
		LC1G400...LC1G500	3	**LA9G3SA**
		LC1G630...LC1G800	3	**LA9G3TA**
	4-pole	LC1G115...LC1G225	4	**LA9G4QA**
		LC1G265...LC1G330	4	**LA9G4RA**
		LC1G400...LC1G500	4	**LA9G4SA**
		LC1G630...LC1G800	4	**LA9G4TA**

Note: *In the event of replacement, replace all switching modules. After replacement, change the position of RESET button on the control module from A to B or B to A.*

Product references

LA9G3101	LA9G3TA	LA9GTT330	LC1G265BEEA	LC1G800LSEA
LA9G3102	LA9G4101	LAG8N113	LC1G265EHEA	LV429252
LA9G3103	LA9G4102	LAG8N113P	LC1G265EHEN	LV429253
LA9G3111	LA9G4103	LAG8N203	LC1G265KUEN	LV429254
LA9G3112	LA9G4111	LAG8N203P	LC1G265LSEA	LV429256
LA9G3113	LA9G4112	LC1G1154BEEA	LC1G3304BEEA	LV429257
LA9G3601	LA9G4113	LC1G1154EHEA	LC1G3304EHEA	LV429258
LA9G3602	LA9G4601	LC1G1154EHEN	LC1G3304EHEN	LV432500
LA9G3603	LA9G4602	LC1G1154KUEN	LC1G3304KUEN	LV432501
LA9G3611	LA9G4603	LC1G1154LSEA	LC1G3304LSEA	LV432502
LA9G3612	LA9G4611	LC1G115BEEA	LC1G330BEEA	LV432503
LA9G3613	LA9G4612	LC1G115EHEA	LC1G330EHEA	LX1G3QBEEA
LA9G3614	LA9G4613	LC1G115EHEN	LC1G330EHEN	LX1G3QEHEA
LA9G3631	LA9G4614	LC1G115KUEN	LC1G330KUEN	LX1G3QEHEN
LA9G3632	LA9G4631	LC1G115LSEA	LC1G330LSEA	LX1G3QKUEN
LA9G3633	LA9G4632	LC1G1504BEEA	LC1G4004BEEA	LX1G3QLSEA
LA9G3650	LA9G4633	LC1G1504EHEA	LC1G4004EHEA	LX1G3RBEEA
LA9G3651	LA9G4701	LC1G1504EHEN	LC1G4004EHEN	LX1G3REHEA
LA9G3652	LA9G4702	LC1G1504KUEN	LC1G4004KUEN	LX1G3REHEN
LA9G3653	LA9G4703	LC1G1504LSEA	LC1G4004LSEA	LX1G3RKUEN
LA9G3661	LA9G4707	LC1G150BEEA	LC1G400BEEA	LX1G3RLSEA
LA9G3662	LA9G4711	LC1G150EHEA	LC1G400EHEA	LX1G3SBEEA
LA9G3663	LA9G4712	LC1G150EHEN	LC1G400EHEN	LX1G3SEHEA
LA9G3671	LA9G4714	LC1G150KUEN	LC1G400KUEN	LX1G3SEHEN
LA9G3672	LA9G4750	LC1G150LSEA	LC1G400LSEA	LX1G3SKUEN
LA9G3673	LA9G4751	LC1G1854BEEA	LC1G5004BEEA	LX1G3SLSEA
LA9G3681	LA9G4752	LC1G1854EHEA	LC1G5004EHEA	LX1G3TEHEA
LA9G3682	LA9G4801	LC1G1854EHEN	LC1G5004EHEN	LX1G3TEHEN
LA9G3683	LA9G4803	LC1G1854KUEN	LC1G5004KUEN	LX1G3TKUEN
LA9G3701	LA9G4QA	LC1G1854LSEA	LC1G5004LSEA	LX1G3TLSEA
LA9G3702	LA9G4RA	LC1G185BEEA	LC1G500BEEA	LX1G4QBEEA
LA9G3703	LA9G4SA	LC1G185EHEA	LC1G500EHEA	LX1G4QEHEA
LA9G3704	LA9G4TA	LC1G185EHEN	LC1G500EHEN	LX1G4QEHEN
LA9G3705	LA9G81	LC1G185KUEN	LC1G500KUEN	LX1G4QKUEN
LA9G3706	LA9G82	LC1G185LSEA	LC1G500LSEA	LX1G4QLSEA
LA9G3707	LA9G970	LC1G2254BEEA	LC1G6304EHEA	LX1G4RBEEA
LA9G3711	LA9G971	LC1G2254EHEA	LC1G6304EHEN	LX1G4REHEA
LA9G3712	LA9G972	LC1G2254EHEN	LC1G6304KUEN	LX1G4REHEN
LA9G3714	LA9G973	LC1G2254KUEN	LC1G6304LSEA	LX1G4RKUEN
LA9G3750	LA9GQQ330	LC1G2254LSEA	LC1G630EHEA	LX1G4RLSEA
LA9G3751	LA9GRD01	LC1G225BEEA	LC1G630EHEN	LX1G4SBEEA
LA9G3752	LA9GRD10	LC1G225EHEA	LC1G630KUEN	LX1G4SEHEA
LA9G3760	LA9GRFB1	LC1G225EHEN	LC1G630LSEA	LX1G4SEHEN
LA9G3761	LA9GRFB2	LC1G225KUEN	LC1G8004EHEA	LX1G4SKUEN
LA9G3762	LA9GRFB3	LC1G225LSEA	LC1G8004EHEN	LX1G4SLSEA
LA9G3801	LA9GSQ330	LC1G2654BEEA	LC1G8004KUEN	LX1G4TEHEA
LA9G3803	LA9GSQ331	LC1G2654EHEA	LC1G8004LSEA	LX1G4TEHEN
LA9G3QA	LA9GSS330	LC1G2654EHEN	LC1G800EHEA	LX1G4TKUEN
LA9G3RA	LA9GTS330	LC1G2654KUEN	LC1G800EHEN	LX1G4TLSEA
LA9G3SA	LA9GTS331	LC1G2654LSEA	LC1G800KUEN	

This document is current. Click on the product reference to get the most recent availability status (hyperlink to **se.com** product datasheet). If your product variant is no longer available, please consult your distributor or regional sales office.

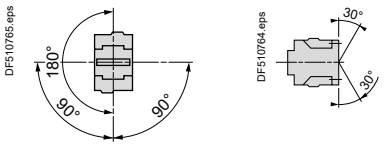
TeSys Control - Giga Contactors

Technical Data for Designers

Contents

TeSys Giga High power contactors:

Environment

Contactor type				LC1G115… 225	LC1G265… 500	LC1G630… 800
Rated insulation voltage (Ui)	Conforming to IEC 60947-4-1. Over-voltage category III, degree of pollution: 3		**V**	1000	1000	1000
Rated impulse withstand voltage (Uimp)	Coil not connected to the power circuit		**kV**	8	8	8
Conforming to standards				IEC/EN 60947-4-1, UL 60947-4-1, CSA C22.2 n° 60947-4-1, JIS C 8201-4-1, GB/T 14048.4, IEC 60721-3-3 3C3		
Product certifications				CB scheme, CCC, cULus, UKCA, EAC, EU-RO-MR by DNV		
Electromagnetic compatibility				IEC 60947-4-1		
Immunity				Following IEC 60947-4-1 Table 16		
Emission				Environment A according to IEC 60947-4-1		
Immunity to radiated electromagnetic interference				20 V/m according to IEC/EN 61000-4-3		
Voltage sag immunity (in complete product as well)				Conforming to SEMI-F47		
Degree of protection	Conforming to IEC 60529 / VDE 0106			IP2x with terminal shrouds LA9G37●●/ LA9G47●●		
Climatic withstand				According to IACS E10		
Ambient air temperature around the device	Storage		**°C**	-60…+80		
	Operation		**°C**	-25…+60		
	Permissible at Uc		**°C**	-40…+70		
Net weight	Standard	3P	**kg**	3.5	7	14.2
		4P	**kg**	4.2	8.3	18
	Advanced	3P	**kg**	4.1	7.8	17.3
		4P	**kg**	5.1	8.9	22
Maximum operating altitude	Without derating		**m**	3000		
Operating positions	Without derating					
	With derating (1)					
Shock resistance 1/2 sine wave = 11 ms Conforming to IEC 60068-2-27	Contactor open			10 gn	10 gn	10 gn
	Contactor closed			15 gn	15 gn	15 gn
Vibration resistance 5…300 Hz Conforming to IEC 60068-2-6	Contactor open			2 gn	2 gn	2 gn
	Contactor closed			4 gn	4 gn	4 gn

(1) For derating details, please contact technical support.

Characteristics

Pole characteristics

Contactor type				LC1G115	LC1G150	LC1G185	LC1G225
Number of poles				3 or 4	3 or 4	3 or 4	3 or 4
Rated operational current (Ie)	Ue ≤ 440 V	In AC-3 / AC-3e, θ ≤ 60 °C	**A**	115 / 115	150 / 145	185 / 177	225 / 209
	Ue ≤ 1000 V	In AC-1, θ ≤ 40 °C	**A**	250	275	305	330
Rated operational voltage (Ue)		Up to	**V**	1000 (1)	1000	1000	1000
Rated frequency (f) (2)			**Hz**	50 / 60	50 / 60	50 / 60	50 / 60
Frequency operating limits		With derating (3)	**Hz**	16 2/3 …400	16 2/3 …400	16 2/3 …400	16 2/3 …400
Conventional thermal current		θ ≤ 40 °C	**A**	250	275	305	330
Rated making capacity		I rms conforming to IEC 60947-4-1	**A**	Making current: 10 x I in AC-3 or 12 x I in AC-4 Making current: 13 x I in AC-3e			
Rated breaking capacity		I rms conforming to IEC 60947-4-1	**A**	Making and breaking current: 8 x I in AC-3 or 10 x I in AC-4 Making and breaking current: 8.5 x I in AC-3e			
Maximum permissible current No current flowing for previous 60 minutes, at θ ≤ 40 °C		For 10 s	**A**	1100	1200	1500	1800
		For 30 s	**A**	640	700	920	1000
		For 1 min	**A**	520	600	740	850
		For 3 min	**A**	400	450	500	560
		For 10 min	**A**	320	350	400	440
Short-circuit protection by fuses		Fuses for motor: type aM - Ue ≤ 440 V	**A**	125	160	200	250
		Fuses for motor: type aM - Ue ≤ 690 V	**A**	125	160	160	200
		Fuses for general application: type gG - Ue ≤ 690 V	**A**	315	315	315	400
Average impedance per pole		At Ith and 50 Hz	**mΩ**	0.18	0.18	0.17	0.15
Power dissipation per pole for the above operational currents		AC-3 / AC-3e	**W**	3	5	6	8
		AC-1	**W**	10	10	20	20
Connection				Maximum c.s.a.			
	Bar	Number of bars		2	2	2	2
		Bar	**mm**	25 x 6	25 x 6	25 x 6	25 x 6
		Cable with lug	**mm²**	185	185	185	185
		Cable with connector	**mm²**	185	185	185	185
		Bolt diameter	**mm**	Ø8.5	Ø8.5	Ø8.5	Ø8.5
Tightening torque		Power circuit connections	**N.m**	18	18	18	18

(1) Ue ≤ 1000 V for AC-1 / Ue ≤ 690 V for AC-3 / AC-3e / AC-4.
(2) Please consult your technical support team for application with frequencies other than 50/60 Hz.
(3) For derating details, please contact technical support.

Characteristics

Pole characteristics

LC1G265	LC1G330	LC1G400	LC1G500	LC1G630	LC1G800
3 or 4	3 or 4	3 or 4	3 or 4	3 or 4	3 or 4
265 / 255	330 / 294	400 / 391	500 / 437	630 / 555	800 / 587
385	440	550	700	1050	1050
1000	1000	1000	1000	1000	1000
50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60
16 2/3…400	16 2/3…400	16 2/3…400	16 2/3…400	16 2/3…400	16 2/3…400
385	440	550	700	1050	1050
Making current: 10 x I in AC-3 or 12 x I in AC-4 Making current: 13 x I in AC-3e					
Making and breaking current: 8 x I in AC-3 or 10 x I in AC-4 Making and breaking current: 8.5 x I in AC-3e					
2200	2650	3600	4000	5050	5500
1230	1800	2400	2800	4400	4600
950	1300	1700	2200	3400	3600
620	900	1200	1500	2200	2600
480	750	1000	1200	1600	1700
315	400	500	500	630	800
250	250	315	400	500	630
400	500	630	800	1250	1250
0.144	0.144	0.1	0.08	0.065	0.065
11	16	16	20	26	42
20	30	30	40	70	70
Maximum c.s.a.					
2	2	2	2	2	2
30 x 10	30 x 10	30 x 10	30 x 10	50 x 10	50 x 10
240	2 x 150	2 x 185	2 x 240	-	-
240	-	-	-	-	-
Ø10.6	Ø10.6	Ø10.6	Ø10.6	Ø13	Ø13
35	35	35	35	58	58

Characteristics

TeSys Giga High power contactors - Advanced version - Control circuit characteristics with AC/DC coils

Contactor type					LC1G115…225	LC1G265…330	LC1G400…500	LC1G630…800
Rated control circuit voltage (Uc)				**V**	24...48 AC/DC, 48...130 AC/DC, 200...500 AC/DC [1]			
Control voltage limits (θ ≤ 60 °C)	AC input (50/60 Hz) [2] /DC input	Operation			0.8 Uc Min...1.1 Uc Max			
		Drop-out			0.1 Uc Max...0.45 Uc Min			
Inputs compatibility PLC digital output 24 V DC Type 3 IEC61131-2		Off-state		**V DC**	0…5			
		On-state		**V DC**	11…30			
Average consumption at 20 °C and at Uc (3 and 4-pole contactors)	24…48 V AC/DC coil (BEE)	Inrush	50/60 Hz coil	**VA**	290	540	490	-
			DC	**W**	220	380	350	-
		Sealed	50/60 Hz coil	**VA**	10	17.9	17.9	-
			DC	**W**	5.7	6.4	6	-
	48...130 V AC/DC coil (EHE)	Inrush	50/60, 400 Hz coil	**VA**	260	430	450	560
			DC	**W**	190	360	360	440
		Sealed	50/60, 400 Hz coil	**VA**	8.9	11.7	11.7	12
			DC	**W**	5	9	8.3	8.8
	200…500 V AC/DC coil (LSE)	Inrush	50/60 Hz coil	**VA**	295	530	535	670
			DC	**W**	215	300	300	390
		Sealed	50/60 Hz coil	**VA**	13	16.1	15.4	17
			DC	**W**	8	9	8.6	11
Heat dissipation				**W**	4…5	5…6	5…6	5…6
Operating time	Closing "C"			**ms**	40...70	40...70	40...70	40...70
	Opening "O"			**ms**	15...50	15...50	15...50	15...50
Mechanical durability at Uc	In millions of operating cycles (max)				8	8	8	5
Maximum operating rate at ambient temperature ≤ 60 °C	In operating cycles per hour		AC-1		300	300	300	300
			AC-3/AC-3e		600	600	600	600
			AC-4		150	150	60	60
Coil control and PLC input connection (Push-in type)					Min/max c.s.a.			
Flexible cable	1 conductor with cable end			**mm²**	0.25...2.5	0.25...2.5	0.25...2.5	0.25...2.5
	2 conductors with Dual Sleeve			**mm²**	0.5...1	0.5...1	0.5...1	0.5...1
Solid cable	1 conductor			**mm²**	0.2...2.5	0.2...2.5	0.2...2.5	0.2...2.5
	Stripping length			**mm**	12	12	12	12

(1) 24...48 V AC/DC control voltage option is available for LC1G115...LC1G500 ratings.
(2) AC input (50/60, 400 Hz)/DC input is available for EHE advanced coil.

TeSys Giga High power contactors - Standard version control circuit characteristics with AC/DC coils

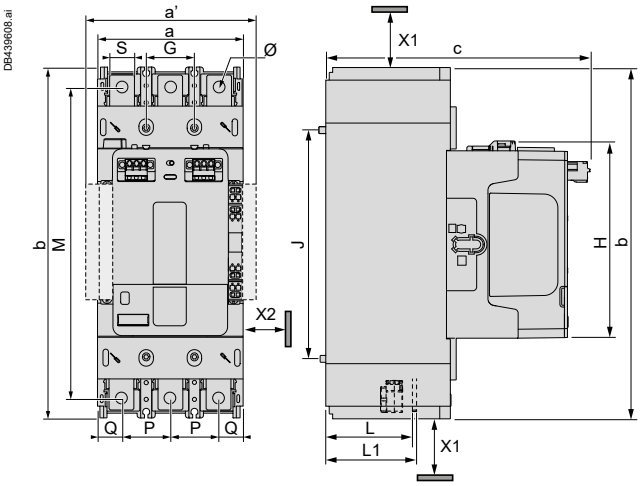
Contactor type					LC1G115…225	LC1G265…330	LC1G400…500	LC1G630…800
Rated control circuit voltage (Uc)				**V**	48...130 AC/DC, 100...250 AC/DC			
Control voltage limits ($\theta \leq 60$ °C)	AC input (50/60 Hz) /DC input	Operation			0.8 Uc Min...1.1 Uc Max (1)			
		Drop-out			0.1 Uc Max...0.45 Uc Min			
Average consumption at 20 °C and at Uc (3 and 4-pole contactors)	48...130 V AC/DC coil (EHE)	Inrush	50/60 Hz coil	**VA**	640	780	965	990
			DC	**W**	445	695	760	790
		Sealed	50/60 Hz coil	**VA**	18.7	17.6	17.6	18.7
			DC	**W**	7.8	7.8	7.8	9.5
	100...250 V AC/DC coil (KUE)	Inrush	50/60 Hz coil	**VA**	540	700	750	800
			DC	**W**	380	645	660	680
		Sealed	50/60 Hz coil	**VA**	12.4	15	15.5	15
			DC	**W**	7.8	9.1	9.3	9.5
Heat dissipation				**W**	5…6	6…7	6…7	6…7
Operating time	Closing "C"			**ms**	40...70	40...70	40...70	40...70
	Opening "O"			**ms**	15...50	15...50	15...50	15...50
Mechanical durability at Uc	In millions of operating cycles (max)				8	8	8	5
Maximum operating rate at ambient temperature ≤ 60 °C	In operating cycles per hour		AC-1		300	300	300	300
			AC-3/AC-3e		600	600	600	600
			AC-4		150	150	60	60
Coil control connection (Push-in type)					Min/max c.s.a.			
Flexible cable	1 conductor with cable end			**mm²**	0.25...2.5	0.25...2.5	0.25...2.5	0.25...2.5
	2 conductors with Dual Sleeve			**mm²**	0.5...1	0.5...1	0.5...1	0.5...1
Solid cable	1 conductor			**mm²**	0.2...2.5	0.2...2.5	0.2...2.5	0.2...2.5
	Stripping length			**mm**	12	12	12	12

(1) 0.7 Uc Min for 110 V DC input (with KUE coil).

Dimensions

Advanced LC1G115...225 TeSys Giga High power contactors

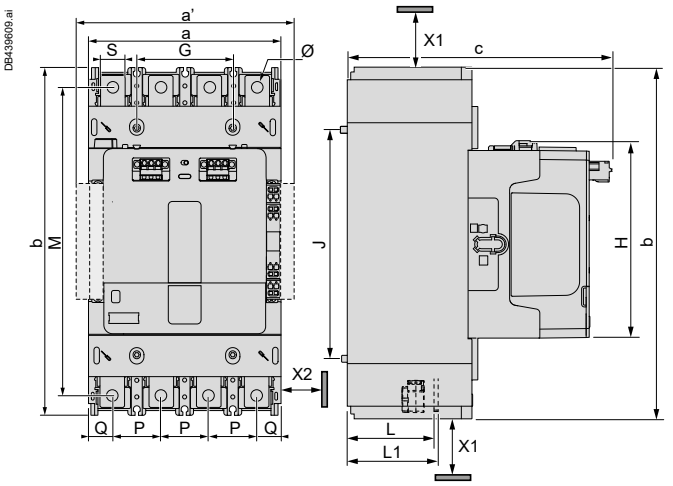
3-pole



All dimensions are in mm.

a	b	c	G	J	M	H	L	L1	P	Q	S	Ø
107.7	254.7	192.9	35	166	225.7	144.1	63.9	66.9	35	18.9	18	8.5

4-pole



All dimensions are in mm.

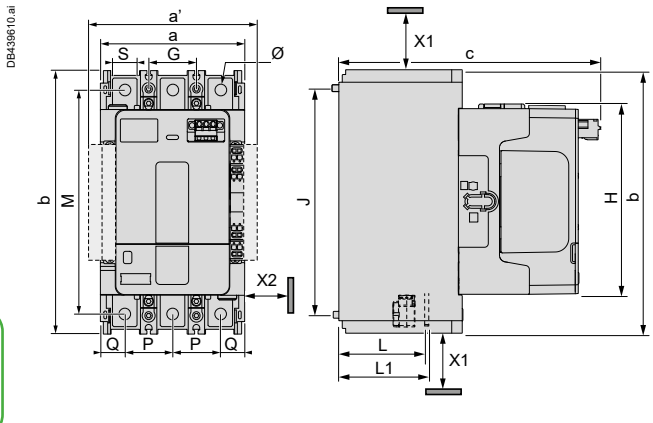
a	b	c	G	J	M	H	L	L1	P	Q	S	Ø
142.7	254.7	192.9	70	166	225.7	144.1	63.9	66.9	35	18.9	18	8.5

X1 (mm) = Minimum electrical clearance.
LC1G115…800, up to 1000 V: 40 mm
X2 (mm) = Minimum electrical clearance according to operating voltage inside metallic cabinets / adjacent installation of contactors.
LC1G115…800: 5 mm.

a' = a + 20 mm with additional auxiliary contact blocks on both sides (externally).

Standard LC1G115...225 TeSys Giga High power contactors

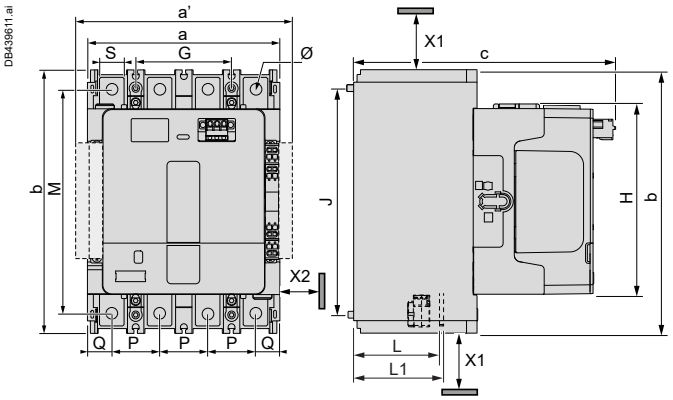
3-pole



All dimensions are in mm.

a	b	c	G	J	M	H	L	L1	P	Q	S	Ø
107.7	193	192.9	35	166	164.1	139.4	66.9	69.9	35	18.9	18	8.5

4-pole



All dimensions are in mm.

a	b	c	G	J	M	H	L	L1	P	Q	S	Ø
142.7	193	192.9	70	166	164.1	139.4	66.9	69.9	35	18.9	18	8.5

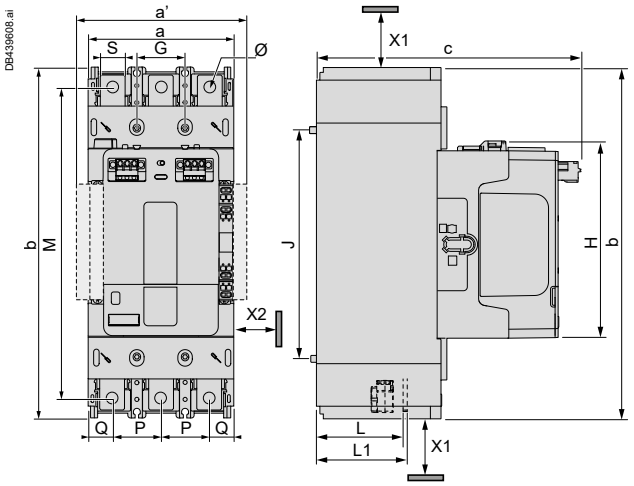
X1 (mm) = Minimum electrical clearance.
LC1G115…800, up to 1000 V: 40 mm
X2 (mm) = Minimum electrical clearance according to operating voltage inside metallic cabinets / adjacent installation of contactors.
LC1G115…800: 5 mm.

a' = a + 20 mm with additional auxiliary contact blocks on both sides (externally).

Dimensions

Advanced LC1G265...500 TeSys Giga High power contactors

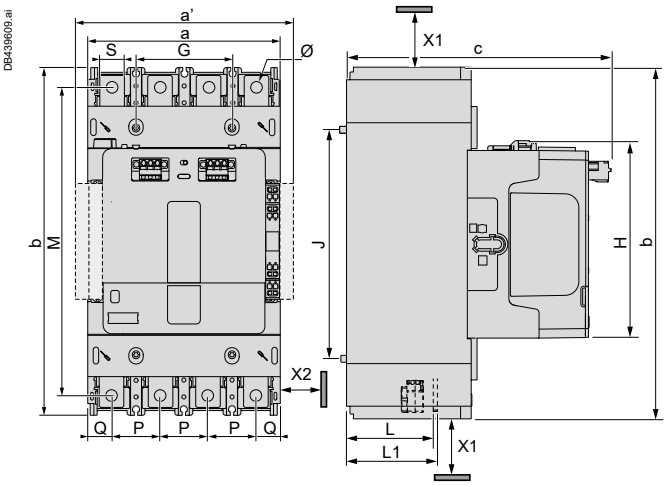
3-pole



All dimensions are in mm.

a	b	c	G	J	M	H	L	L1	P	Q	S	Ø
140	290	225.5	45	187	261.6	166.7	72.8	78.8	45	25	30	10.6

4-pole



All dimensions are in mm.

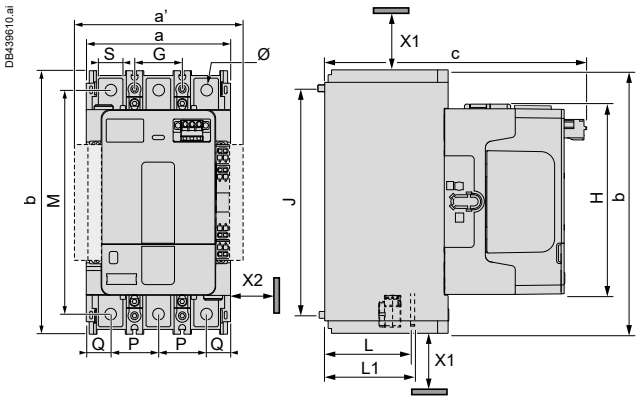
a	b	c	G	J	M	H	L	L1	P	Q	S	Ø
185	290	225.5	90	187	261.6	166.7	72.8	78.8	45	25	30	10.6

X1 (mm) = Minimum electrical clearance.
LC1G115…800, up to 1000 V: 40 mm.
X2 (mm) = Minimum electrical clearance according to operating voltage inside metallic cabinets / adjacent installation of contactors.
LC1G115…800: 5 mm.

a' = a + 20 mm with additional auxiliary contact blocks on both sides (externally).

Standard LC1G265...500 TeSys Giga High power contactors

3-pole

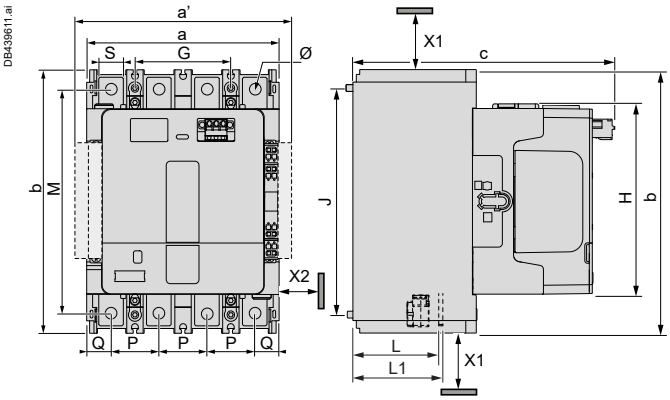


All dimensions are in mm.

a	b	c	G	J	M	H	L	L1
140	225	225.5	45	187	197	161.8	78.8	LC1G265-330: 81.8 LC1G400: 82.8 LC1G500: 83.8

P	Q	S	Ø
45	25	30	10.6

4-pole



All dimensions are in mm.

a	b	c	G	J	M	H	L	L1
185	225	225.5	90	187	197	161.8	78.8	LC1G265-330: 81.8 LC1G400: 82.8 LC1G500: 83.8

P	Q	S	Ø
45	25	30	10.6

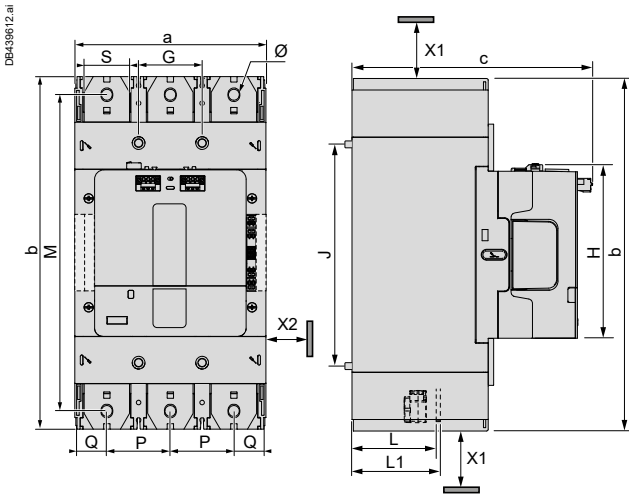
X1 (mm) = Minimum electrical clearance.
LC1G115…800, up to 1000 V: 40 mm.
X2 (mm) = Minimum electrical clearance according to operating voltage inside metallic cabinets / adjacent installation of contactors.
LC1G115…800: 5 mm.

a' = a + 20 mm with additional auxiliary contact blocks on both sides (externally).

Dimensions

Advanced LC1G630...800 TeSys Giga High power contactors

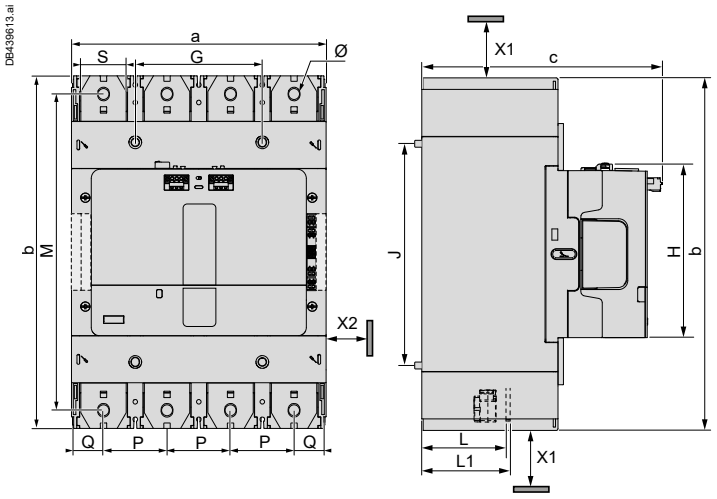
3-pole



All dimensions are in mm.

a	b	c	G	J	M	H	L	L1	P	Q	S	Ø
210.6	388.5	265.6	70	242	348.5	192.1	99	107	70	35.3	48	13

4-pole



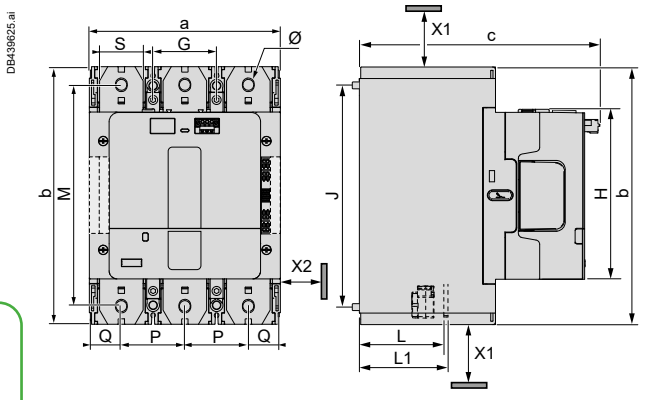
All dimensions are in mm.

a	b	c	G	J	M	H	L	L1	P	Q	S	Ø
280.6	388.5	265.6	140	242	348.5	192.1	99	107	70	35.3	48	13

X1 (mm) = Minimum electrical clearance.
LC1G115…800, up to 1000 V: 40 mm.
X2 (mm) = Minimum electrical clearance according to operating voltage inside metallic cabinets / adjacent installation of contactors.
LC1G115…800: 5 mm.

Standard LC1G630...800 TeSys Giga High power contactors

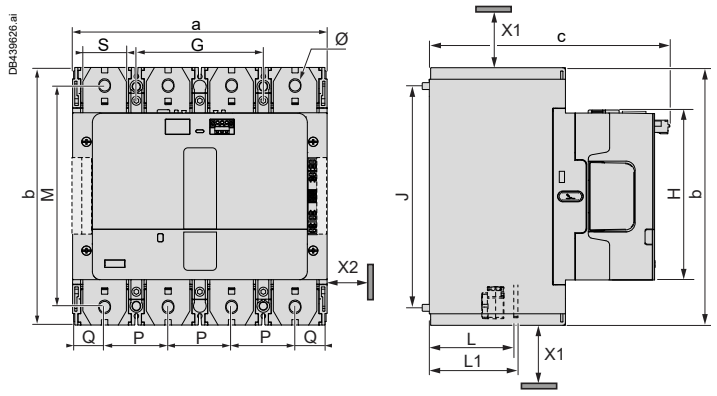
3-pole



All dimensions are in mm.

a	b	c	G	J	M	H	L	L1	P	Q	S	Ø
210.6	284	265.6	70	242	244	187.4	107	113	70	35.3	48	13

4-pole



All dimensions are in mm.

a	b	c	G	J	M	H	L	L1	P	Q	S	Ø
280.6	284	265.6	140	242	244	187.4	107	113	70	35.3	48	13

X1 (mm) = Minimum electrical clearance.
LC1G115…800, up to 1000 V: 40 mm.
X2 (mm) = Minimum electrical clearance according to operating voltage inside metallic cabinets / adjacent installation of contactors.
LC1G115…800: 5 mm.

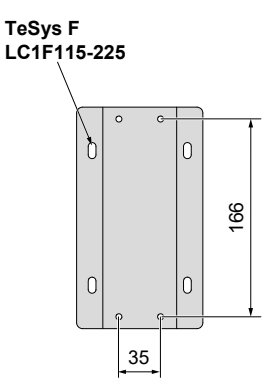
Dimensions/mounting

Dimensions

LA9GRFB1

For replacement of F115-225

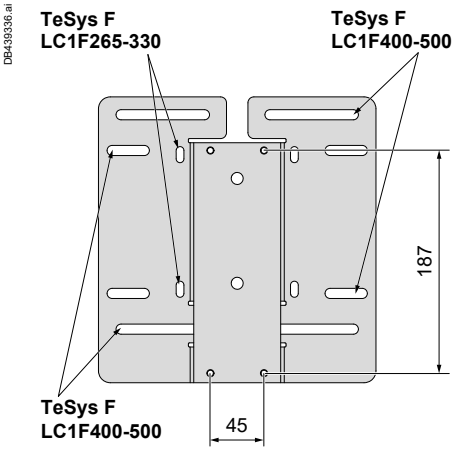
DB438635.ai



LA9GRFB2

For replacement of F265-500

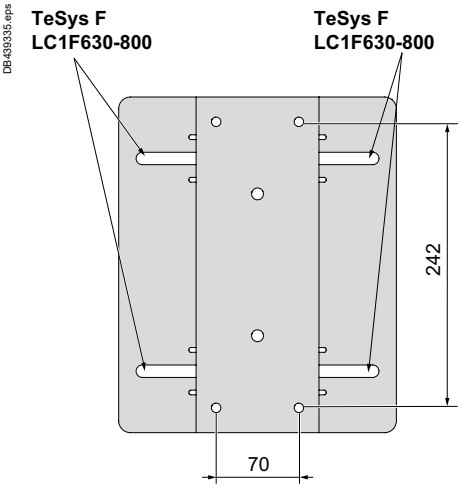
DB439336.ai



LA9GRFB3

For replacement of F630 and F800

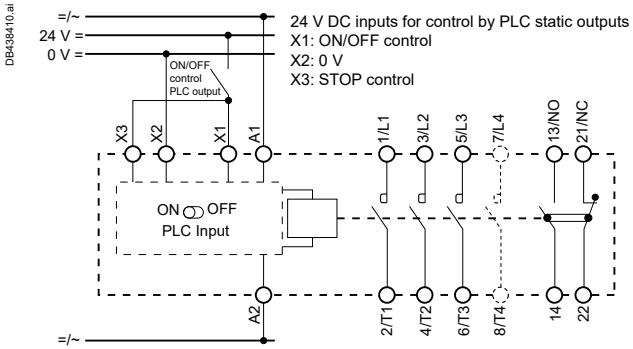
DB439335.eps



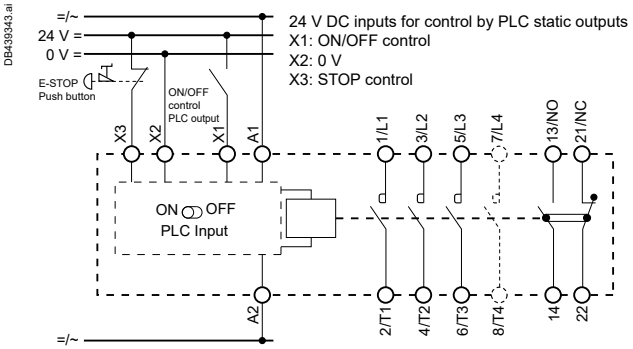
Note: *All dimensions are in mm.*

TeSys Giga High power contactors

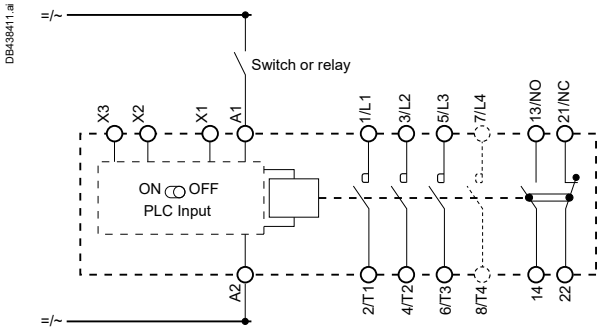
Advanced version - ON/OFF control by PLC



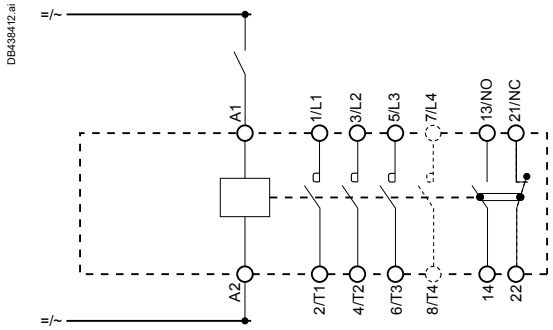
Advanced version - ON/OFF control by PLC in safety application



Advanced version - Control by switch

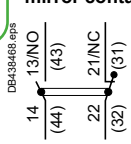
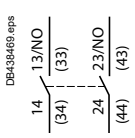
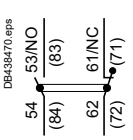
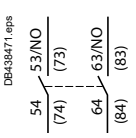


Standard version



Add-on blocks

Instantaneous auxiliary contacts

1 N/O + 1 N/C	2 N/O	1 N/O + 1 N/C	2 N/O
LAG8N113P **mirror contacts**	**LAG8N203P**	**LAG8N113** **mirror contacts**	**LAG8N203**
			

(1) Terminal numbers in brackets refer to blocks when mounted upside down, on left-hand side of contactor.

TeSys Control
Complementary technical information

(1) For full definition of contactor utilization categories, please refer to page A5/105 of TeSys Catalog, ref. MKTED210011EN.

Coordination: Fuses (NFC, DIN type aM) + Contactor + Overload relay

0.06 to 90 kW at 400/415, 440 and 500 V: type 2 coordination

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e						Switch-disconnector	aM fuses		Contactor	Thermal overload relay class 10	
400/415 V		440 V		500 V		Reference (1)	Size	Rating	Reference (2)	Reference	Setting range
P	Ie	P	Ie	P	Ie						
kW	A	kW	A	kW	A			A			A
0.06	0.2	**0.06**	0.19	**–**	–	**GS1DD**	10 x 38	2	**LC1D09**	**LRD02**	0.16…0.25
–	–	**0.09**	0.28	**–**	–	**GS1DD**	10 x 38	2	**LC1D09**	**LRD03**	0.25…0.4
0.09 **0.12**	0.3 0.44	**–** **0.12**	– 0.37	**–** **–**	– –	**GS1DD**	10 x 38	2	**LC1D09**	**LRD04**	0.4…0.63
0.18 **–**	0.6 –	**0.18** **0.25**	0.55 0.76	**–** **–**	– –	**GS1DD**	10 x 38	2	**LC1D09**	**LRD05**	0.63…1
0.25 **0.37** **0.55**	0.85 1.1 1.5	**–** **0.37** **0.55**	– 1 1.36	**0.37** **0.55** **0.75**	0.88 1.2 1.5	**GS1DD**	10 x 38	2	**LC1D09**	**LRD06**	1…1.7
0.75 **–**	1.9 –	**0.75** **1.1**	1.7 2.5	**–** **1.1**	– 2.2	**GS1DD**	10 x 38	4	**LC1D09**	**LRD07**	1.6…2.5
1.1 **1.5**	2.7 3.6	**–** **1.5**	– 3.3	**1.5** **2.2**	2.9 3.9	**GS1DD**	10 x 38	4	**LC1D09**	**LRD08**	2.5…4
2.2	4.9	**2.2**	4.5	**3**	5.2	**GS1DD**	10 x 38	6	**LC1D09**	**LRD10**	4…6
3	6.5	**3**	5.9	**4**	6.8	**GS1DD**	10 x 38	8	**LC1D09**	**LRD12**	5.5…8
4	8.5	**4**	7.8	**5.5**	9.2	**GS1DD**	10 x 38	10	**LC1D09**	**LRD14**	7…10
5.5	11.5	**5.5**	10.5	**7.5**	12.4	**GS1DD**	10 x 38	16	**LC1D12**	**LRD16**	9…13
7.5	15.5	**7.5**	14.1	**9**	14.7	**GS1DD**	10 x 38	16	**LC1D18**	**LRD21**	12…18
–	–	**9**	16.7	**–**	–	**GS●F**	14 x 51	20	**LC1D25**	**LRD21**	12…18
9 **11**	18.4 22	**11** **–**	20 –	**11** **15**	17.6 23	**GS●F**	14 x 51	25	**LC1D25**	**LRD22**	16…24
15	29	**15**	27	**18.5**	28	**GS●F**	14 x 51	32	**LC1D32**	**LRD32**	23…32
18.5	35	**18.5**	32	**22**	33	**GS●F**	14 x 51	40	**LC1D40A**	**LRD340**	30…40
22	41	**22**	39	**30**	44	**GS●J**	22 x 58	50	**LC1D50A**	**LRD350**	37…50
–	–	**30**	50	**–**	–	**GS●J**	22 x 58	80	**LC1D65A**	**LRD365**	48…65
–	–	**–**	–	**37**	53	**GS●J**	22 x 58	80	**LC1D65A**	**LRD365**	48…65
30	55	**37**	60	**–**	–	**GS●J**	22 x 58	80	**LC1D65A**	**LRD365**	48…65
–	–	**–**	–	**45**	64	**GS●J**	22 x 58	80	**LC1D95** (3)	**LRD3361**	55…70
37	66	**45**	73	**–**	–	**GS●J**	22 x 58	100	**LC1D80** (3)	**LRD3363**	63…80
45	80	**–**	–	**–**	–	**GS●J**	22 x 58	100	**LC1D115A**	**LRD4365**	80...104
–	–	**–**	–	**55**	78	**GS●J**	22 x 58	100	**LC1D115A**	**LR9G115**	28...115
55	97	**55**	88.2	**75**	105.6	**GS●L**	T0	125	**LC1D115A**	**LR9G115**	28...115
75	132	**75**	125	**90**	128	**GS●L**	T0	160	**LC1D150A**	**LR9G225**	57...225

(1) GS●: GS1 for direct operator or GS2 for external operator.
(2) For reversing operation, replace the prefix LC1 with LC2.
(3) Only electromechanical coils are available for this contactor rating.

Coordination: Fuses (NFC, DIN type aM) + Contactor + Overload relay

55 to 335 kW at 400/415 V: type 2 coordination

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Switch-disconnector	aM fuses		Contactor	Electronic thermal overload relay	
400/415 V			Product type	Size	Rating	Product type	Product type	Ir setting (1)
P	Ie	Iq (max)						
kW	A	kA			A			A
55	97	80	GS●L	0	125	LC1G115	LR9G115	97
75	132	80	GS●L	0	160	LC1G150	LR9G225	132
90	160	80	GS●N	1	200	LC1G185	LR9G225	160
110	195	80	GS●N	1	250	LC1G225	LR9G225	195
132	230	80	GS●QQ	2	315	LC1G265	LR9G500	230
160	280	80	GS●QQ	2	400	LC1G330	LR9G500	280
200	350	80	GS2S	3	500	LC1G400	LR9G500	350
220	380	80	GS2S	3	500	LC1G500	LR9G500	380
250	430	80	GS2S	3	500	LC1G500	LR9G500	430
315	540	80	GS2S	3	630	LC1G630	LR9G630	540
335	575	80	GS2V	4	800	LC1G630	LR9G630	575

75 to 355 kW at 440 V: type 2 coordination

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Switch-disconnector	aM fuses		Contactor	Electronic thermal overload relay	
440 V			Product type	Size	Rating	Product type	Product type	Ir setting (1)
P	Ie	Iq (max)						
kW	A	kA			A			A
75	115	80	GS●L	0	125	LC1G115	LR9G115	115
90	145	80	GS●L	0	160	LC1G150	LR9G225	145
110	177	80	GS●N	1	200	LC1G185	LR9G225	177
132	209	80	GS●N	1	250	LC1G225	LR9G225	209
160	255	80	GS●QQ	2	315	LC1G265	LR9G500	255
200	318	80	GS●QQ	2	400	LC1G330	LR9G500	318
220	343	80	GS2S	3	500	LC1G400	LR9G500	343
250	390	80	GS2S	3	500	LC1G500	LR9G500	390
315	490	80	GS2S	3	500	LC1G500	LR9G500	490
355	554	80	GS2S	3	630	LC1G630	LR9G630	554

65 to 375 kW at 500 V: type 2 coordination

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Switch-disconnector	aM fuses		Contactor	Electronic thermal overload relay	
500 V			Product type	Size	Rating	Product type	Product type	Ir setting (1)
P	Ie	Iq (max)						
kW	A	kA			A			A
65	92	80	GS●L	0	125	LC1G115	LR9G115	92
90	128	80	GS●L	0	160	LC1G150	LR9G225	128
110	156	80	GS●N	1	200	LC1G185	LR9G225	156
132	184	80	GS●N	1	250	LC1G225	LR9G225	184
160	224	80	GS●QQ	2	315	LC1G265	LR9G500	224
200	280	80	GS●QQ	2	400	LC1G330	LR9G500	280
250	344	80	GS2S	3	500	LC1G400	LR9G500	344
295	405	80	GS2S	3	500	LC1G500	LR9G500	405
375	516	80	GS2S	3	630	LC1G630	LR9G630	516

(1) This setting is a general guidance, Ir should be adjusted according to motor characteristics and conditions of use.

0.75 to 90 kW at 690 V: type 2 coordination

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e		Switch-disconnector	aM fuses		Contactor	Thermal overload relay class 10	
P	Ie	Reference (1)	Size	Rating	Reference (2)	Reference	Setting range
kW	A			A			A
0.75	1.1	GS●F	14 x 51	2	LC1D09	LRD06	1…1.6
1.1	1.6	GS●F	14 x 51	2	LC1D09	LRD06	1…1.6
1.5	2.2	GS●F	14 x 51	4	LC1D09	LRD07	1.6…2.5
2.2	2.9	GS●F	14 x 51	4	LC1D09	LRD08	2.5…4
3	4	GS●F	14 x 51	6	LC1D09	LRD08	2.5…4
4	5	GS●F	14 x 51	6	LC1D09	LRD10	4…6
5.5	7	GS●F	14 x 51	8	LC1D09	LRD12	5.5…8
7.5	9.3	GS●F	14 x 51	10	LC1D25	LRD16	9…13
11	13	GS●F	14 x 51	16	LC1D25	LRD16	9…13
15	16.5	GS●F	14 x 51	20	LC1D25	LRD22	16…24
18.5	21	GS●F	14 x 51	25	LC1D32	LRD22	16…24
22	25	GS●J	22 x 58	32	LC1D40A	LRD332	23…32
30	33	GS●J	22 x 58	40	LC1D40A	LRD340	30…40
37	40	GS●J	22 x 58	50	LC1D65A	LRD350	37…50
45	49	GS●J	22 x 58	63	LC1D80 (3)	LRD3357	37…50
55	57	GS●J	22 x 58	80	LC1D115A	LRD3359 + LA7D3058	48…65
75	77	GS●KK	T00	100	LC1D115A	LRD3363 + LA7D3058	63…80
90	93	GS●KK	T00	125	LC1D150A	LRD4365	80...104

55 to 500 kW at 690 V: type 2 coordination

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Switch-disconnector	aM fuses		Contactor	Thermal overload relay	
690 V			Product type	Size	Rating	Product type	Product type	Ir setting (4)
P	Ie	Iq (max)						
kW	A	kA			A			A
55	57	80	GS●J	22 x 58	80	LC1G115	LR9G225	57
75	77	80	GS●KK	00	100	LC1G115	LR9G225	77
90	93	80	GS●KK	00	125	LC1G150	LR9G225	93
110	113	80	GS●KK	00	160	LC1G185	LR9G225	113
132	134	80	GS●L	0	160	LC1G225	LR9G225	134
160	162	80	GS●N	1	200	LC1G225	LR9G225	162
200	203	80	GS●N	1	250	LC1G265	LR9G500	203
220	223	80	GS●QQ	2	250	LC1G330	LR9G500	223
250	250	80	GS●QQ	2	315	LC1G330	LR9G500	250
315	313	80	GS●QQ	2	400	LC1G400	LR9G500	313
355	354	80	GS●QQ	3	500	LC1G500	LR9G500	354
500	493	80	GS●S	3	630	LC1G630	LR9G630	493

(1) GS●: GS1 for direct operator or GS2 for external operator.
(2) For reversing operation, replace the prefix LC1 with LC2.
(3) Only electromechanical coils are available for this contactor rating.
(4) This setting is a general guidance, Ir should be adjusted according to motor characteristics and conditions of use.

Coordination: Fuses (NFC, DIN type aM) + Contactor + Electronic overload relay

0.18 to 55 kW at 400/415 and 690 V: type 2 coordination

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e						Switch-disconnector	aM fuses		Contactor	Electronic thermal overload relay	
400/415 V			690 V			Reference	Size	Rating	Reference	Reference	Setting range
P	Ie	Iq	P	Ie	Iq						
kW	A	kA	kW	A	kA			A			A
0.18	0.6	100	**–**	–	–	**GS1DD**	10 x 38	2	**LC1D09**	**LR9D02**	0.4…2.0
0.25	0.85	100	**–**	–	–	**GS1DD**	10 x 38	2	**LC1D09**	**LR9D02**	0.4…2.0
0.37	1.1	100	**–**	–	–	**GS1DD**	10 x 38	2	**LC1D09**	**LR9D02**	0.4…2.0
0.55	1.5	100	**–**	–	–	**GS1DD**	10 x 38	2	**LC1D09**	**LR9D02**	0.4…2.0
0.75	1.9	100	**–**	–	–	**GS1DD**	10 x 38	4	**LC1D09**	**LR9D02**	0.4…2.0
1.1	2.7	100	**–**	–	–	**GS1DD**	10 x 38	4	**LC1D18**	**LR9D08**	1.6…8.0
1.5	3.6	100	**–**	–	–	**GS1DD**	10 x 38	4	**LC1D18**	**LR9D08**	1.6…8.0
2.2	4.9	100	**–**	–	–	**GS1DD**	10 x 38	6	**LC1D18**	**LR9D08**	1.6…8.0
3	6.5	100	**–**	–	–	**GS1DD**	10 x 38	8	**LC1D18**	**LR9D32**	6.4…32
4	8.5	100	**–**	–	–	**GS1DD**	10 x 38	10	**LC1D18**	**LR9D32**	6.4…32
5.5	11.5	100	**–**	–	–	**GS1DD**	10 x 38	16	**LC1D25**	**LR9D32**	6.4…32
7.5	15.5	50	**–**	–	–	**GS1DD**	10 x 38	16	**LC1D25**	**LR9D32**	6.4…32
11	22	50	**–**	–	–	**GS●F**	14 x 51	25	**LC1D25**	**LR9D32**	6.4…32
15	29	50	**–**	–	–	**GS●J**	22 x 58	32	**LC1D65A**	**LR9D110S**	22…110
18.5	35	50	**–**	–	–	**GS●J**	22 x 58	40	**LC1D65A**	**LR9D110S**	22…110
22	41	50	**–**	–	–	**GS●J**	22 x 58	50	**LC1D65A**	**LR9D110S**	22…110
45 (1)	80	100	**–**	–	–	**GS●N**	T 1	100	**LC1D150A**	**LR9D110S**	22…110
55 (1)	97	100	**–**	–	–	**GS●N**	T 1	125	**LC1D150A**	**LR9D110S**	22…110
–	–	–	**0.37**	0.64	100	**GS●F**	14 x 51	2	**LC1D09**	**LR9D02**	0.4…2.0
–	–	–	**0.55**	0.87	100	**GS●F**	14 x 51	2	**LC1D09**	**LR9D02**	0.4…2.0
–	–	–	**0.75**	1.1	100	**GS●F**	14 x 51	2	**LC1D09**	**LR9D02**	0.4…2.0
–	–	–	**1.1**	1.6	100	**GS●F**	14 x 51	2	**LC1D25**	**LR9D08**	1.6…8.0
–	–	–	**1.5**	2.2	100	**GS●F**	14 x 51	4	**LC1D25**	**LR9D08**	1.6…8.0
–	–	–	**2.2**	2.9	100	**GS●F**	14 x 51	4	**LC1D25**	**LR9D08**	1.6…8.0
–	–	–	**3**	4	100	**GS●F**	14 x 51	6	**LC1D25**	**LR9D08**	1.6…8.0
–	–	–	**4**	5	100	**GS●F**	14 x 51	6	**LC1D25**	**LR9D08**	1.6…8.0
–	–	–	**5.5**	7	50	**GS●F**	14 x 51	8	**LC1D25**	**LR9D32**	6.4…32
–	–	–	**7.5**	9.3	50	**GS●F**	14 x 51	10	**LC1D25**	**LR9D32**	6.4…32
–	–	–	**11**	13	50	**GS●F**	14 x 51	16	**LC1D32**	**LR9D32**	6.4…32
–	–	–	**15**	16.5	50	**GS●F**	14 x 51	20	**LC1D32**	**LR9D32**	6.4…32
–	–	–	**18.5**	21	50	**GS●F**	14 x 51	25	**LC1D65A**	**LR9D32**	6.4…32
–	–	–	**22**	25	50	**GS●F**	14 x 51	32	**LC1D65A**	**LR9D32**	6.4…32
–	–	–	**30**	33	100	**GS●F**	14 x 51	40	**LC1D95** (2)	**LR9D110S**	22…110
–	–	–	**37**	40	100	**GS●F**	14 x 51	50	**LC1D95** (2)	**LR9D110S**	22…110
–	–	–	**45**	49	100	**GS●J**	22 x 58	63	**LC1D95** (2)	**LR9D110S**	22…110

(1) Ratings valid up to 400 V AC only.
(2) Only electromechanical coils are available for this contactor rating.

0.06 to 80 kW at 415, 440 and 500 V: type 2 coordination

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e						Switch-disconnector-fuse	BS fuses		Contactor	Thermal overload relay	
415 V		440 V		500 V		Reference	Size	Rating	Reference (1)	Reference	Setting range
P	Ie	P	Ie	P	Ie						
kW	A	kW	A	kW	kA			A			A
0.06	0.22	**0.06**	0.19	**–**	–	**GS1DDB**	A1	NIT 2	**LC1D09**	**LRD02**	0.16…0.25
–	–	**0.09**	0.28	**–**	–	**GS1DDB**	A1	NIT 2	**LC1D09**	**LRD03**	0.25…0.4
0.09	0.36	**–**	–	**–**	–						
0.12	0.44	**0.12**	0.37	**–**	–	**GS1DDB**	A1	NIT 2	**LC1D09**	**LRD04**	0.4…0.63
0.18	0.6	**0.18**	0.55	**–**	–	**GS1DDB**	A1	NIT 2	**LC1D09**	**LRD05**	0.63…1
–	–	**0.25**	0.76	**–**	–	**GS1DDB**	A1	NIT 4	**LC1D09**	**LRD05**	0.63…1
0.25	0.85	**0.37**	1	**0.37**	0.88						
0.37	1.1	**0.55**	1.36	**0.55**	1.2						
0.55	1.5	**0.75**	1.7	**0.75**	1.5	**GS1DDB**	A1	NIT 6	**LC1D09**	**LRD06**	1…1.7
0.75	1.9	**–**	–	**–**	–	**GS1DDB**	A1	NIT 10	**LC1D09**	**LRD07**	1.6…2.5
–	–	**–**	–	**1.5**	2.9	**GS1DDB**	A1	NIT 10	**LC1D09**	**LRD08**	2.5…4
1.5	3.6	**1.5**	3.3	**2.2**	3.9	**GS1DDB**	A1	NIT 16	**LC1D09**	**LRD08**	2.5…4
2.2	4.9	**2.2**	4.5	**3**	5.2	**GS1DDB**	A1	NIT 16	**LC1D09**	**LRD10**	4…6
3	6.5	**3**	5.9	**4**	6.8	**GS1DDB**	A1	NIT 20	**LC1D09**	**LRD12**	5.5…8
4	8.5	**4**	7.8	**5.5**	9.2	**GS1DDB**	A1	NIT 20	**LC1D09**	**LRD14**	7…10
5.5	11.5	**5.5**	10.5	**7.5**	12.4	**GS1DDB**	A1	NIT 20M25	**LC1D12**	**LRD16**	9…13
7.5	15.5	**7.5**	14.1	**9**	14.7	**GS1DDB**	A1	NIT 20M32	**LC1D18**	**LRD21**	12…18
9	18.4	**9**	16.7	**–**	–	**GS2GB**	A2	TIA 32M35	**LC1D18**	**LRD21**	12…18
11	22	**11**	20	**11**	17.6						
–	–	**–**	–	**15**	23	**GS2GB**	A2	TIA 32M50	**LC1D25**	**LRD22**	16…24
15	29	**15**	27	**–**	–	**GS2GB**	A2	TIA 32M63	**LC1D32**	**LRD32**	23…32
18.5	35	**18.5**	32	**–**	–	**GS2GB**	A3	TIS 63M80	**LC1D40A**	**LRD340**	25…40
22	41	**22**	39	**–**	–	**GS2GB**	A3	TIS 63M80	**LC1D50A**	**LRD350**	37…50
30	55	**30**	50	**–**	–	**GS2GB**	A3	TIS 63M100	**LC1D65A**	**LRD365**	48…65
–	–	**37**	60	**–**	–	**GS2GB**	A3	TIS 63M100	**LC1D65A**	**LRD365**	48…65
–	–	**45**	73	**45**	64	**GS2LLB**	A4	TCP 100M125	**LC1D80** (2)	**LRD3363**	63…80
45	80	**–**	–	**55**	78	**GS2LLB**	A4	TCP 100M125	**LC1D95** (2)	**LRD3365**	80…104
55	97	**–**	–	**–**	–	**GS2LLB**	A4	TCP 100M160	**LC1D115A**	**LR9D5369**	90…150
–	–	**55**	90	**–**	–	**GS2LLB**	A4	TCP 100M160	**LC1D115A**	**LR9D5367**	60…100
–	–	**–**	–	**80**	113	**GS2LB**	B2	TF 200	**LC1D150A**	**LR9D5369**	90…150
80	141.3	**80**	128.4	**–**	–	**GS2LB**	B2	TF 200M250	**LC1D150A**	**LR9D5369**	90…150

(1) For reversing operation, replace the prefix LC1 with LC2.
(2) Only electromechanical coils are available for this contactor rating.

Coordination: Thermal magnetic circuit breaker + Contactor

0.06 to 90 kW at 400/415, 440 and 500 V: type 2 coordination

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e									Circuit breaker		Contactor
400/415 V			440 V			500 V			Reference *References in italics are available in CEE zone only*	Setting range of thermal trips	Reference (2)
P	Ie	Iq (1)	P	Ie	Iq (1)	P	Ie	Iq (1)			
kW	A	kA	kW	A	kA	kW	A	kA		A	
0.06	0.2	130	**0.06**	0.19	130	–	–	–	**GV2P02** or **GV2ME02** or *GV2ME02AP*	0.16…0.25	**LC1D09**
0.09	0.3	130	**0.09**	0.28	130	–	–	–	**GV2P03** or **GV2ME03** or *GV2ME03AP*	0.25…0.4	**LC1D09**
–	–	–	–	–	–	–	–	–			
0.12	0.44	130	**0.12**	0.37	130	–	–	–	**GV2P04** or **GV2ME04** or *GV2ME04AP*	0.4…0.63	**LC1D09**
–	–	–	**0.18**	0.55	130	–	–	–			
0.18	0.6	130	–	–	–	–	–	–	**GV2P05** or **GV2ME05** or *GV2ME05AP*	0.63…1	**LC1D09**
0.25	0.85	130	**0.25**	0.76	130	–	–	–			
0.37	1.1	130	**0.37**	0.99	130	**0.37**	0.88	130	**GV2P06** or **GV2ME06** or *GV2ME06AP*	1…1.6	**LC1D09**
0.55	1.5	130	**0.55**	1.36	130	**0.55**	1.2	130			
–	–	–	–	–	–	**0.75**	1.5	130	**GV2P06** or **GV2ME06** or *GV2ME06AP*	1…1.6	**LC1D09**
0.75	1.9	130	**0.75**	1.68	130	**1.1**	2.2	130	**GV2P07** or **GV2ME07** or *GV2ME07AP*	1.6…2.5	**LC1D09**
1.1	2.7	130	**1.1**	2.5	130	**1.5**	2.9	130	**GV2P08** or **GV2ME08** or *GV2ME08AP*	2.5…4	**LC1D09**
1.5	3.6	130	**1.5**	3.3	130	**2.2**	3.9	130			
2.2	4.9	130	–	–	–	–	–	–	**GV2P10** or **GV2ME10** or *GV2ME10AP*	4…6.3	**LC1D09**
–	–	–	**2.2**	4.5	50	**3**	5.2	50	**GV2ME10** or *GV2ME10AP*	4…6.3	**LC1D09**
–	–	–	**2.2**	4.5	130	–	–	–	**GV2P10**	4…6.3	**LC1D09**
–	–	–	–	–	–	**3**	5.2	130			
3	6.5	130	**3**	5.9	130 or 50	–	–	–	**GV2P14** or **GV2ME14** or *GV2ME14AP*	6…10	**LC1D09**
4	8.5	130	–	–	–	–	–	–			
–	–	–	**4**	7.8	15	**4**	6.8	10	**GV2ME14** or *GV2ME14AP*	6…10	**LC1D09**
–	–	–	–	–	–	**5.5**	9.2	10			
–	–	–	–	–	–	**4**	6.8	50	**GV2P14**	6…10	**LC1D12**
–	–	–	**4**	7.8	130	**5.5**	9.2	50			
5.5	11.5	130	**5.5**	10.5	50 or 8	**7.5**	12.4	42 or 6	**GV2P16** or **GV2ME16** or *GV2ME16AP*	9…14	**LC1D25**
–	–	–	**7.5**	14.1	50 or 8	**9**	13.9	42 or 6			
7.5	15.5	50 or 15	**9**	16.9	20 or 8	–	–	–	**GV2P20** or **GV2ME20** or *GV2ME20AP*	13…18	**LC1D25**
9	18.1	50 or 15	**11**	20	20 or 6	**11**	17.6	10 or 6	**GV2P21** or **GV2ME21** or *GV2ME21AP*	17…23	**LC1D25**
11	22	50 or 15	–	–	–	–	–	–	**GV2P22** or **GV2ME22** or *GV2ME22AP*	20…25	**LC1D25**
–	–	–	–	–	–	**15**	23	10 or 6	**GV2P22**	20…25	**LC1D32**
15	29	50 or 10	**15**	27	20 or 6	**18.5**	28	10 or 4	**GV2P32** or **GV2ME32** or *GV2ME32AP*	24…32	**LC1D32**
18.5	35	50	–	–	–	–	–	–	**GV3P40**	30…40	**LC1D50A**
–	–	–	**18.5**	32	50	**22**	33	10	**GV3P40**	30…40	**LC1D65A**
22	41	50	–	–	–	–	–	–	**GV3P50**	37…50	**LC1D50A**
–	–	–	**22**	39	50	**30**	44	10	**GV3P50**	37…50	**LC1D65A**
30	55	50	**30**	50	50	–	–	–	**GV3P65**	48…65	**LC1D65A**
–	–	–	–	–	–	**37**	53	10	**GV3P65**	48…65	**LC1D65A**
37	66	50	–	–	–	–	–	–	**GV3P73**	62...73	**LC1D80A**
–	–	–	**37**	60	70	–	–	–	**GV4P80**	40…80	**LC1D65A**
37	66	100				**45**	73	70	**GV4P80**	40…80	**LC1D65A**
45	80	100	**55**	88	70	55	78	(3)	**GV4P115S**	65 …115	**LC1D115A**
55	97	100	–	–	–	75	106	(3)			
75	132	70	**75**	120	65	–	–	–	**GV5P150H**	70...150	**LC1D150A**
			90	146	65	90	128	–			

*(1) The breaking performance of circuit breakers **GV2P** can be increased by adding a current limiter **GV1L3**.*
*(2) Combinations with circuit breaker **GV2ME** are type 2 coordinated only at 400/415 V and 440 V.*
(3) Please consult your Local Schneider Electric Technical Support.

45 to 220 kW at 400/415 V: type 2 coordination (with TeSys GV4/GV5/GV6 circuit breakers)

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Circuit breaker			Contactor
400/415 V			Product type [1]	Ir setting [2]	Irm [2]	Product type
P	Ie	Iq (max)				
kW	A	kA		A	A	
45	80	100	GV4P/GV4PE/GV4PEM115●	86	774	LC1G115
55	97	100	GV4P/GV4PE/GV4PEM115●	100	900	LC1G115
55	97	70	GV5P150●	100	1300	LC1G115
75	132	70	GV5P220●	140	1820	LC1G150
90	160	70	GV5P220●	170	2210	LC1G185
110	195	70	GV6P320●	200	2600	LC1G225
110	195	70	GV6P320●	200	2600	LC1G265
132	230	70	GV6P320●	240	3120	LC1G265
160	280	70	GV6P500●	300	3900	LC1G330
200	350	70	GV6P500●	380	4940	LC1G400
220	380	70	GV6P500●	400	5720	LC1G500

(1) Product type to be completed by replacing the ● with the breaking performance code:

Rated conditional short-circuit (kA)	GV4P/GV4PE/GV4PEM115●			GV5P150●/ 220● GV6P320●/ 500●	
Breaking performance code	B	N	S	F	H
400/415 V	25	50	100	36	70

45 to 400 kW at 400/415 V: type 2 coordination (with ComPact NSX/NS circuit breakers)

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Circuit breaker			Contactor
400/415 V			Product type [1]	Ir setting [2]	Irm [2]	Product type
P	Ie	Iq (max)				
kW	A	kA		A	A	
45	80	130	NSX100● + MicroLogic 2.2 M	85	1105	LC1G115
55	97	130	NSX160● + MicroLogic 2.2 M [3]	100	1300	LC1G115
75	132	130	NSX250● + MicroLogic 2.2 M [3]	140	1820	LC1G150
90	160	130	NSX250● + MicroLogic 2.2 M [3]	170	2210	LC1G185
110	195	130	NSX400● + MicroLogic 2.3 M [3]	200	2600	LC1G225
132	230	130	NSX400● + MicroLogic 2.3 M [3]	240	3120	LC1G265
160	280	130	NSX630● + MicroLogic 2.3 M [3]	300	3900	LC1G330
200	350	130	NSX630● + MicroLogic 2.3 M [3]	380	4940	LC1G400
220	380	130	NS800● + MicroLogic 5.0	400	5200	LC1G500
250	430	130	NS800● + MicroLogic 5.0	440	5720	LC1G500
300	500	130	NS800● + MicroLogic 5.0	560	5040	LC1G630
335	575	130	NS800● + MicroLogic 5.0	640	5760	LC1G630
355	610	130	NS800● + MicroLogic 5.0	640	5760	LC1G800
400	690	130	NS800● + MicroLogic 5.0	720	6480	LC1G800

(1) Product type to be completed by replacing the ● with the breaking performance code:

Rated conditional short-circuit (kA)	NSX100●/ NSX160● / NSX250●/ NSX400●/ NSX630●					NS800●/ NS1000●
Breaking performance code	F	N	H	S	L	L
400/415 V	36	50	70	100	130	150

(2) This setting is a general guidance, Ir and Irm should be adjusted according to motor characteristics and conditions of use.
(3) Applicable also with MicroLogic 6.2 E-M and 6.3 E-M trip units.

55 to 250 kW at 440 V: type 2 coordination (with TeSys GV4 / GV5 / GV6 circuit breakers)

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Circuit breaker			Contactor
440 V			Product type [1]	Ir setting [2]	Irm [2]	Product type
P	Ie	Iq (max)				
kW	A	kA		A	A	
55	88	100	GV4P/GV4PE/GV4PEM115●	93	837	LC1G115
55	88	70	GV5P150●	90	1170	LC1G115
75	120	70	GV5P150●	130	1690	LC1G150
90	145	70	GV5P220●	150	1950	LC1G150
110	177	70	GV5P220●	185	2405	LC1G185
132	209	70	GV6P320●	210	2730	LC1G225
160	255	70	GV6P320●	260	3380	LC1G265
200	318	70	GV6P500●	320	4160	LC1G330
220	343	70	GV6P500●	350	4550	LC1G400
250	390	65	GV6P500●	400	5200	LC1G400

(1) Product type to be completed by replacing the ● with the breaking performance code:

Rated conditional short-circuit (kA)	GV4P/GV4PE/GV4PEM115●			GV5P150●/ 220●		GV6P320●/ 500●	
Breaking performance code	B	N	S	F	H	F	H
440 V	20	50	70	35	65	30	65

55 to 450 kW at 440 V: type 2 coordination (with ComPact NSX / NS circuit breakers)

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Circuit breaker			Contactor
440 V			Product type [1]	Ir setting [2]	Irm [2]	Product type
P	Ie	Iq (max)				
kW	A	kA		A	A	
55	88	130	NSX100● + MicroLogic 2.2 M	90	1170	LC1G115
75	120	130	NSX160● + MicroLogic 2.2 M [3]	130	1690	LC1G150
90	145	130	NSX250● + MicroLogic 2.2 M [3]	150	1950	LC1G150
110	177	130	NSX250● + MicroLogic 2.2 M [3]	185	2405	LC1G185
132	209	130	NSX400● + MicroLogic 2.3 M [3]	210	2730	LC1G225
160	255	130	NSX400● + MicroLogic 2.3 M [3]	260	3380	LC1G265
200	318	130	NSX630● + MicroLogic 2.3 M [3]	320	4160	LC1G330
220	343	130	NSX630● + MicroLogic 2.3 M [3]	350	4550	LC1G400
250	390	130	NSX630● + MicroLogic 2.3 M [3]	400	5200	LC1G400
300	466	130	NS800● + MicroLogic 5.0	470	6110	LC1G500
335	521	130	NS800● + MicroLogic 5.0	560	5040	LC1G630
355	554	130	NS800● + MicroLogic 5.0	560	5040	LC1G630
400	627	130	NS800● + MicroLogic 5.0	640	5760	LC1G800
450	695	130	NS800● + MicroLogic 5.0	720	6480	LC1G800

(1) Product type to be completed by replacing the ● with the breaking performance code:

Rated conditional short-circuit (kA)	NSX100●/ NSX160●/ NSX250●					NSX400●/ NSX630●					NS800●
Breaking performance code	F	N	H	S	L	F	N	H	S	L	L
440 V	35	50	65	90	130	30	42	65	90	130	130

(2) This setting is a general guidance, Ir and Irm should be adjusted according to motor characteristics and conditions of use.
(3) Applicable also with MicroLogic 6.2 E-M and 6.3 E-M trip units.

Coordination: Thermal magnetic circuit breaker + Contactor

65 to 295 kW at 500 V: type 2 coordination (with TeSys GV4 / GV5 / GV6 circuit breakers)

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Circuit breaker			Contactor
500 V			Product type [1]	Ir setting [2]	Irm [2]	Product type
P	Ie	Iq (max)				
kW	A	kA		A	A	
65	92	100	GV4P/GV4PE/GV4PEM115●	93	837	LC1G115
65	92	50	GV5P150●	100	1300	LC1G115
110	156	50	GV5P220●	170	2210	LC1G185
132	184	50	GV5P220●	185	2405	LC1G225
160	224	50	GV6P320●	240	3120	LC1G265
200	280	50	GV6P500●	300	3900	LC1G330
250	344	50	GV6P500●	350	4550	LC1G400
295	405	50	GV6P500●	440	5720	LC1G500

(1) Product type to be completed by replacing the ● with the breaking performance code:

Rated conditional short-circuit (kA)	GV4P/GV4PE/GV4PEM115●			GV5P150●/ 220●		GV6P320●/ 500●	
Breaking performance code	B	N	S	F	H	F	H
500 V	10	25	30	30	50	25	50

65 to 425 kW at 500 V: type 2 coordination (with ComPacT NSX / NS circuit breakers)

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Circuit breaker			Contactor
500 V			Product type [1]	Ir setting [2]	Irm [2]	Product type
P	Ie	Iq (max)				
kW	A	kA		A	A	
65	92	100	NSX100● + MicroLogic 2.2 M	95	1235	LC1G115
65	92	100	NSX160● + MicroLogic 2.2 M [3]	95	1235	LC1G115
90	128	70	NSX160● + MicroLogic 2.2 M [3]	130	1690	LC1G150
110	156	100	NSX250● + MicroLogic 2.2 M [3]	170	2210	LC1G185
132	184	100	NSX250● + MicroLogic 2.2 M [3]	185	2405	LC1G225
160	224	70	NSX400● + MicroLogic 2.3 M [3]	240	3120	LC1G265
200	280	70	NSX630● + MicroLogic 2.3 M [3]	300	3900	LC1G330
250	344	70	NSX630● + MicroLogic 2.3 M [3]	350	4550	LC1G400
295	405	70	NSX630● + MicroLogic 2.3 M [3]	440	5720	LC1G500
375	516	70	NS800● + MicroLogic 5.0	560	5040	LC1G630
425	584	70	NS800● + MicroLogic 5.0	640	5760	LC1G800

(1) Product type to be completed by replacing the ● with the breaking performance code:

Rated conditional short-circuit (kA)	NSX100●					NSX160●/ NSX250●					NSX400●/ NSX630●					NS800●
Breaking performance code	F	N	H	S	L	F	N	H	S	L	F	N	H	S	L	L
500 V	25	36	50	65	70	30	36	50	65	70	25	30	50	65	70	100

(2) This setting is a general guidance, Ir and Irm should be adjusted according to motor characteristics and conditions of use.
(3) Applicable also with MicroLogic 6.2 E-M and 6.3 E-M trip units.

Coordination: Thermal magnetic circuit breaker + Contactor

0.06 to 22 kW at 690 V: type 2 coordination

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Limiter block	Circuit breaker			Contactor
690 V			Product type	Product type	Ir Setting (1)	Irm (1)	Product type
P	Ie	Iq					
kW	A	kA			A	A	
0.06	0.12	100		GV2P01	0.16	1.5	LC1D09
0.09	0.17	100		GV2P02	0.25	2.4	LC1D09
0.12	0.23	100		GV2P03	0.4	2.5	LC1D09
0.18	0.35	100		GV2P03	0.4	5	LC1D09
0.25	0.49	100		GV2P04	0.63	8	LC1D09
0.37	0.64	100		GV2P05	1	13	LC1D09
0.55	0.87	100		GV2P05	1	13	LC1D09
0.75	1.1	100		GV2P06	1.6	22.5	LC1D09
1.1	1.6	100	LA9LB920	GV2P07	1.6	22.5	LC1D25
1.5	2.2	100	LA9LB920	GV2P07	2.5	33.5	LC1D25
2.2	2.9	50	LA9LB920	GV2P08	4	51	LC1D25
3	4	50	LA9LB920	GV2P08	4	51	LC1D25
4	5	50	LA9LB920	GV2P10	6.3	78	LC1D25
5.5	7	50	LA9LB920	GV2P14	10	138	LC1D25
7.5	9.3	50	LA9LB920	GV2P16	14	170	LC1D25
9	12.8	50	LA9LB920	GV2P16	14	170	LC1D25
11	13	50	LA9LB920	GV2P16	14	170	LC1D25
15	16.5	50	LA9LB920	GV2P20	18	223	LC1D25
18.5	21	50	LA9LB920	GV2P21	23	327	LC1D32
22	25	50	LA9LB920	GV2P32	32	416	LC1D40A

(1) This setting is a general guidance, Ir and Irm should be adjusted according to motor characteristics and conditions of use.

30 to 560 kW at 690 V: type 2 coordination (with ComPacT NSX/NS circuit breakers)

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Circuit breaker			Contactor
690 V			Product type (1)	Ir Setting (2)	Irm (2)	Product type
P	Ie	Iq (max)				
kW	A	kA		A	A	
30	32	100	NSX100● + MicroLogic 2.2 M	36	468	LC1G115
37	39	100	NSX100● + MicroLogic 2.2 M	40	520	LC1G115
45	47	100	NSX100● + MicroLogic 2.2 M	50	650	LC1G115
55	57	100	NSX100● + MicroLogic 2.2 M	60	780	LC1G115
75	77	100	NSX100● + MicroLogic 2.2 M	80	1040	LC1G115
90	93	100	NSX250● + MicroLogic 2.2 M (3)	95	1235	LC1G150
110	113	100	NSX250● + MicroLogic 2.2 M (3)	115	1495	LC1G185
132	134	100	NSX250● + MicroLogic 2.2 M (3)	140	1820	LC1G225
160	162	100	NSX250● + MicroLogic 2.2 M (3)	170	2210	LC1G225
200	203	100	NSX400● + MicroLogic 2.3 M (3)	210	2730	LC1G265
220	223	100	NSX400● + MicroLogic 2.3 M (3)	240	3120	LC1G330
250	250	100	NSX400● + MicroLogic 2.3 M (3)	260	3380	LC1G400
315	313	100	NSX630● + MicroLogic 2.3 M (3)	320	4160	LC1G400
335	335	100	NSX630● + MicroLogic 2.3 M (3)	350	4550	LC1G500
355	354	100	NSX630● + MicroLogic 2.3 M (3)	380	4940	LC1G500
375	372	100	NSX630● + MicroLogic 2.3 M (3)	380	4940	LC1G630
400	400	100	NS800● + MicroLogic 5.0	440	5720	LC1G630
450	455	100	NS800● + MicroLogic 5.0	470	6110	LC1G630
475	475	100	NS800● + MicroLogic 5.0	500	6500	LC1G630
500	493	100	NS800● + MicroLogic 5.0	500	6500	LC1G630
560	551	75	NS800● + MicroLogic 5.0	560	7280	LC1G800

(1) Product type to be completed by replacing the ● with the breaking performance code:

Rated conditional short-circuit (kA)	NSX100●/ NSX250●/ NSX400●/ NSX630●		NS800●
Breaking performance code	HB1	HB2	LB
690 V	75	100	75

(2) This setting is a general guidance, Ir and Irm should be adjusted according to motor characteristics and conditions of use.
(3) Applicable also with MicroLogic 6.2 E-M and 6.3 E-M trip units.

Coordination (UL): Thermal magnetic circuit breaker + Contactor

½ to 80 hp at 460 V - 3P

GV2P + contactor: compact, high SCCR solution.
GV3P + contactor: medium power, Everlink (long lasting power connection).
GV4PB + contactor: high power, advanced protection settings, Everlink (long lasting power connection), 18 (GV4PB●●●B), 35 (GV4PB●●●N) or 65 (GV4PB●●●S) kA SCCR.

Standard power ratings						Circuit breaker		Contactor		Circuit breaker		Contactor		Circuit breaker		Contactor	
200 V 3P		230 V 3P		460 V 3P		Product reference (2)	Dial range	Product reference (3)	Comb. SCCR 480Y	Product reference (4)	Dial range	Product reference (3)	Comb. SCCR 480Y	Product reference	Dial range	Product reference (3)	SCCR 480Y As applied
HP	FLA (1)	HP	FLA (1)	HP	FLA (1)		A		kA		A		kA		A		kA
				½	1.1	**GV2P06**	1 to 1.6	**LC1D09**	100					**GV4PB02S**	0.8 to 2	**LC1D09**	65
				¾	1.6	**GV2P06**	1 to 1.6	**LC1D09**	100					**GV4PB02S**	0.8 to 2	**LC1D09**	65
½	2.5	½	2.2	1	2.1	**GV2P07**	1.6 to 2.5	**LC1D09**	100					**GV4PB03S**	1.4 to 3.5	**LC1D09**	65
				1½	3	**GV2P08**	2.5 to 4	**LC1D09**	100					**GV4PB03S**	1.4 to 3.5	**LC1D09**	65
¾	3.7	¾	3.2	2	3.4	**GV2P08**	2.5 to 4	**LC1D09**	100					**GV4PB07S**	2.9 to 7	**LC1D09**	65
1	4.6	1	4.2	3	4.8	**GV2P10**	4 to 6.3	**LC1D09**	100					**GV4PB07S**	2.9 to 7	**LC1D09**	65
		1½	6			**GV2P10**	4 to 6.3	**LC1D09**	100					**GV4PB12S**	5 to 12.5	**LC1D12**	65
1½	6.9	2	6.8			**GV2P14**	6 to 10	**LC1D12**	100					**GV4PB12S**	5 to 12.5	**LC1D12**	65
2	7.8			5	7.6	**GV2P14**	6 to 10	**LC1D12**	100					**GV4PB12S**	5 to 12.5	**LC1D12**	65
		3	9.6			**GV2P14**	6 to 10	**LC1D12**	100	**GV3P13**	9 to 13	**LC1D18**	65	**GV4PB12S**	5 to 12.5	**LC1D12**	65
3	11			7½	11	**GV2P16**	9 to 14	**LC1D18**	50 (5)	**GV3P13**	9 to 13	**LC1D18**	65	**GV4PB25S**	10 to 25	**LC1D25**	65
				10	14	**GV2P16**	9 to 14	**LC1D18**	50 (5)	**GV3P18**	12 to 18	**LC1D18**	65	**GV4PB25S**	10 to 25	**LC1D25**	65
5	17.5	5	15.2			**GV2P20**	13 to 18	**LC1D18**	50 (5)	**GV3P18**	12 to 18	**LC1D18**	65	**GV4PB25S**	10 to 25	**LC1D25**	65
		7½	22	15	21	**GV2P21**	17 to 23	**LC1D25**	50 (5)	**GV3P25**	17 to 25	**LC1D25**	65	**GV4PB25S**	10 to 25	**LC1D25**	65
7½	25.3					**GV2P22**	20 to 25	**LC1D25**	50 (5)	**GV3P32**	23 to 32	**LC1D32**	65	**GV4PB50S**	20 to 50	**LC1D50A**	65
		10	28	20	27					**GV3P32**	23 to 32	**LC1D32**	65	**GV4PB50S**	20 to 50	**LC1D50A**	65
10	32.2			25	34					**GV3P40**	30 to 40	**LC1D40A**	65	**GV4PB50S**	20 to 50	**LC1D50A**	65
		15	42	30	40					**GV3P50**	37 to 50	**LC1D50A**	65	**GV4PB50S**	20 to 50	**LC1D50A**	65
15	48									**GV3P65**	48 to 65	**LC1D65A**	65	**GV4PB50S**	20 to 50	**LC1D50A**	65
		20	54	40	52					**GV3P65**	48 to 65	**LC1D65A**	65	**GV4PB80S**	40 to 80	**LC1D80**	65
20	62.1													**GV4PB115S**	40 to 80	**LC1D80**	65
25	78.2	25	68	50	65									**GV4PB115S**	40 to 80	**LC1D80**	65
30	92	30	80	60	77									**GV4PB115S**	65 to 115	**LC1D115A**	65
30	92	40	104	75	96	**JLL36250**	114 to 217	**LC1D115A**	100								
40	120	50	130	100	124	**LLL36400**	90 to 348	**LC1D150A**	100								

(1) Motor Full Load Amp Sizes are based on NEC Table 430.250.
(2) Requires use of GV1G09 or GV2GH7 line spacer for Type F rating.
(3) Add coil suffix to complete reference part number. For example, an LC1D09G7 includes a 120 V AC coil.
(4) Requires use of GV3G66 line spacer and GVAM11 short-circuit signaling contact for Type F rating.
(5) SCCR is 42 kA at 480Y when using GV2G busbar links.

Coordination: Magnetic circuit breaker + Contactor + Overload relay

0.06 to 18.5 kW at 400/415, 440 and 500 V: type 2 coordination

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e									Circuit breaker			Contactor	Thermal overload relay	
400/415 V			440 V			500 V			Reference	Rating	Irm (1)	Reference (2)	Reference	Setting range
P	Ie	Iq	P	Ie	Iq	P	Ie	Iq						
kW	A	kA	kW	A	kA	kW	A	kA		A	A			A
0.06	0.2	130	**0.06**	0.19	130	**–**	–	–	**GV2L03** or **LE03**	0.4	5	**LC1D09**	**LRD02**	0.16…0.25
0.09	0.3	130	**0.09**	0.28	130	**–**	–	–	**GV2L03** or **LE03**	0.4	5	**LC1D09**	**LRD03**	0.25…0.40
			0.12	0.37	130				**GV2L04** or **LE04**	0.63	8	**LC1D09**	**LRD03**	0.25…0.40
0.12	0.44	130	**0.18**	0.55	130	**–**	–	–	**GV2L04** or **LE04**	0.63	8	**LC1D09**	**LRD04**	0.4…0.63
0.18	0.6	130							**GV2L05** or **LE05**	1	13	**LC1D09**	**LRD04**	0.4…0.63
0.25	0.85	130	**0.25**	0.76	130	**–**	–	–	**GV2L05** or **LE05**	1	13	**LC1D09**	**LRD05**	0.63…1
–	–	–	**–**	–	–	**0.37**	0.88	130	**GV2L05** or **LE05**	1	13	**LC1D09**	**LRD06**	1…1.7
0.37	1.1	130	**0.37**	1	130				**GV2L06** or **LE06**	1.6	22.5	**LC1D09**	**LRD05**	0.63…1
0.55	1.5	130	**0.55**	1.36	130	**0.55** **0.75**	1.2 1.5	130 130	**GV2L06** or **LE06**	1.6	22.5	**LC1D09**	**LRD06**	1…1.7
0.75	1.9	130	**0.75**	1.7	130	**1.1**	2.2	130	**GV2L07** or **LE07**	2.5	33.5	**LC1D09**	**LRD07**	1.6…2.5
1.1 **1.5**	2.7 3.6	130 130	**1.1** **–**	2.5 –	130 –	**1.5** **2.2**	2.9 3.9	130 130	**GV2L08** or **LE08**	4	51	**LC1D09**	**LRD08**	2.5…4
–	–	–	**1.5**	3.3	130	**–**	–	–	**GV2L08** or **LE08**	4	51	**LC1D09**	**LRD10**	4…6
2.2 **–**	4.9 –	130 –	**–** **–**	– –	– –		–	–	**GV2L10** or **LE10**	6.3	78	**LC1D09**	**LRD10**	4…6
– **–**	– –	– –	**2.2** **–**	4.5 –	50 –	**–** **3**	– 5.2	– 50	**GV2LE10**	6.3	78	**LC1D09**	**LRD10**	4…6
– **–**	– –	– –	**2.2**	4.5	130	**–** **3**	– 5.2	– 130	**GV2L10**	6.3	78	**LC1D09**	**LRD10**	4…6
3	6.5	130	**–**	–	–	**–**	–	–	**GV2L14** or **LE14**	10	10	**LC1D09**	**LRD12**	5.5…8
			3	5.9	130/50				**GV2L14** or **LE14**	10	10	**LC1D09**	**LRD10**	4…6
–	–	–	**–**	–	–	**4**	6.8	10	**GV2LE14**	10	138	**LC1D12**	**LRD12**	5.5…8
–	–	–	**–**	–	–	**4**	6.8	10	**GV2L14**	10	138	**LC1D12**	**LRD12**	5.5…8
4	8.5	130	**–**	–	–	**–**	–	–	**GV2L14** or **LE14**	10	138	**LC1D09**	**LRD14**	7…10
–	–	–	**4**	7.8	15	**–**	–	–	**GV2LE14**	10	138	**LC1D09**	**LRD14**	7…10
–	–	–	**4**	7.8	20	**–**	–	–	**GV2L14**	10	138	**LC1D09**	**LRD14**	7…10
–	–	–	**–**	–	–	**5.5**	9.2	10	**GV2LE14**	10	138	**LC1D09**	**LRD14**	7…10
–	–	–	**–**	–	–	**5.5**	9.2	10	**GV2L14**	10	138	**LC1D09**	**LRD14**	7…10
5.5	11.5	130	**5.5**	10.4	50	**7.5**	12.4	10	**GV2L16**	14	170	**LC1D25**	**LRD16**	9…13
–	–	–	**7.5**	14.1	50	**–**	–	–	**GV2L16**	14	170	**LC1D25**	**LRD21**	12…18
7.5	15.5	50	**9**	16.9	20	**9**	13.9	10	**GV2L20**	18	223	**LC1D25**	**LRD21**	12…18
9 **11**	18.1 22	50 50	**–** **11**	– 20	– 20	**–** **–**	– –	– –	**GV2L22**	25	327	**LC1D25**	**LRD22**	16…24
– **–**	– –	– –	**–** **–**	– –	– –	**11** **15**	17.6 23	10 10	**GV2L22**	25	327	**LC1D32**	**LRD22**	16…24
15	29	50	**15**	27	50	**–**	–	–	**GV3L32**	32	448	**LC1D40A**	**LRD332**	23…32
–	–	–	**–**	–	–	**18.5**	28	10	**GV3L32**	32	448	**LC1D65A**	**LRD332**	23…32

(1) Irm: setting current of the magnetic trip.
(2) For reversing operation, replace the prefix LC1 with LC2.

Coordination: Magnetic circuit breaker + Contactor + Overload relay

0.18 to 22 kW at 690 V: type 2 coordination

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Limiter block	Circuit breaker			Contactor	Thermal overload relay	
690 V			Product type	Product type	Rating	Irm (1)	Product type	Product type	Setting range
P	Ie	Iq							
kW	A	kA			A	A			A
0.18	0.35	100	–	**GV2L03**	0.4	5	**LC1D09**	**LRD03**	0.25...0.4
0.25	0.49	100	–	**GV2L04**	0.63	8	**LC1D09**	**LRD04**	0.4…0.63
0.37	0.64	100	–	**GV2L05**	1	13	**LC1D09**	**LRD05**	0.63…1
0.55	0.87	100	–	**GV2L05**	1	13	**LC1D09**	**LRD05**	0.63…1
0.75	1.1	100	–	**GV2L06**	1.6	22.5	**LC1D09**	**LRD06**	1…1.6
1.1	1.6	100	–	**GV2L06**	1.6	22.5	**LC1D09**	**LRD06**	1…1.6
1.5	2.2	100	**LA9LB920** (2)	**GV2L07**	2.5	33.5	**LC1D25**	**LRD07**	1.6…2.5
2.2	2.9	50	**LA9LB920** (2)	**GV2L08**	4	51	**LC1D25**	**LRD08**	2.5…4
3	4	50	**LA9LB920** (2)	**GV2L08**	4	51	**LC1D25**	**LRD08**	2.5…4
4	5	50	**LA9LB920** (2)	**GV2L10**	6.3	78	**LC1D25**	**LRD10**	4…6
5.5	7	50	**LA9LB920** (2)	**GV2L14**	10	138	**LC1D32**	**LRD12**	5.5…8
7.5	9.3	50	**LA9LB920** (2)	**GV2L16**	14	170	**LC1D32**	**LRD16**	9…13
9	10.6	50	**LA9LB920** (2)	**GV2L16**	14	170	**LC1D32**	**LRD16**	9…13
11	13	50	**LA9LB920** (2)	**GV2L16**	14	170	**LC1D32**	**LRD16**	9…13
15	16.5	50	**LA9LB920** (2)	**GV2L20**	18	223	**LC1D32**	**LRD21**	12…18
18.5	21	50	**LA9LB920** (2)	**GV2L22**	25	327	**LC1D32**	**LRD22**	16…24
22	25	50	**LA9LB920** (2)	**GV2L32**	32	416	**LC1D32**	**LRD32**	23…32
22	25	50	**LA9LB920** (2)	**GV2L32**	32	416	**LC1D40A**	**LRD332**	23…32

(1) Irm: setting current of the magnetic trip.
*(2) For more information about the current limiter **LA9LB920**, please refer to pages A4/31 and A4/61 of TeSys Catalog, ref. MKTED210011EN.*

Coordination: Magnetic circuit breaker + Contactor + Overload relay

18.5 to 90 kW at 400/415, 440 and 500 V: type 2 coordination

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e									Circuit breaker			Contactor	Thermal overload relay	
400/415 V			440 V			500 V			Reference	Rating	Irm (1)	Reference (2)	Reference	Setting range
P	Ie	Iq	P	Ie	Iq	P	Ie	Iq						
kW	A	kA	kW	A	kA	kW	A	kA		A	A			A
18.5	35	50	–	–	–	–	–	–	**GV3L40**	40	560	**LC1D50A**	**LRD340**	30…40
–	–	–	**18.5**	32	50	–	–	–	**GV3L40**	40	560	**LC1D65A**	**LRD340**	30…40
22	41	50	–	–	–	–	–	–	**GV3L50**	50	700	**LC1D50A**	**LRD350**	37…50
–	–	–	**22**	39	50	**30**	44	10	**GV3L50**	50	700	**LC1D65A**	**LRD350**	37…50
30	55	50	**30**	50	50	**37**	53	10	**GV3L65**	65	910	**LC1D65A**	**LRD365**	48…65
37	66	50	–	–	–	–	–	–	**GV3L73**	73	1120	**LC1D80A**	**LRD380**	62...80
–	–	–	**37**	60	70	–	–	–	**GV4L80S**	80	880	**LC1D65A**	**LRD365**	48…65
37	66	100	**45**	73	70	(4)	(4)	(4)	**GV4L80S**	80	1040	**LC1D80** (5)	**LRD3363**	63…80
45	80	100	**55**	88	70	(4)	(4)	(4)	**GV4L115S**	115	1380	**LC1D115A**	**LR9D5367**	60…100
55	97	100	–	–	–	(4)	(4)	(4)	**GV4L115S**	115	1495	**LC1D115A**	**LR9D5369**	90…150
–	–	–	–	–	–	**55**	78	(4)	**NSX100●MA** (3)	100	1040	**LC1D80** (5)	**LRD3363**	63…80
45	80	(4)	**55**	88	(4)	–	–	–	**NSX160●MA** (3)	100	1300	**LC1D115A**	**LR9G115**	28…115
55	97	(4)	–	–	–	–	–	–	**NSX160●MA** (3)	150	1500	**LC1D115A**	**LR9G115**	28…115
–	–	–	–	–	–	**75**	106	(4)	**NSX160●MA** (3)	150	1950	**LC1D115A**	**LR9G225**	57…225
75	132	(4)	**75**	125	(4)	–	–	–	**NSX250●MA** (3)	220	1950	**LC1D150A**	**LR9G225**	57…225
–	–	–	**90**	146	(4)	–	–	–	**NSX250●MA** (3)	220	1950	**LC1D150A**	**LR9G225**	57…225
–	–	–	–	–	–	**90**	128	(4)	**NSX250●MA** (3)	220	1950	**LC1D150A**	**LR9G225**	57…225

(1) Irm: setting current of the magnetic trip.
(2) For reversing operation, replace the prefix LC1 with LC2.
(3) Reference to be completed by replacing the ● with the breaking performance code:

Breaking performance Iq (kA)	NSX100●MA		NSX160●MA and NSX250●MA		NSX400● and NSX630●	
400/415 V	36	70	36	70	70	150
440 V	35	65	35	65	65	130
500 V	25	50	25	50	50	70
660/690 V	8	10	8	10	20	20
Code	**F**	**H**	**F**	**H**	**H**	**L**

(4) Please consult your Local Schneider Electric Technical Support.
(5) Only electromechanical coils are available for this contactor rating.

45 to 335 kW at 400/415 V: type 2 coordination (with TeSys GV4 or ComPacT NSX circuit breakers and LR9G overload relays)

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Circuit breaker		Contactor	Electronic thermal overload relay	
400/415 V			Product type (1)	Irm (2)	Product type	Product type	Ir setting (2)
P	Ie	Iq (max)					
kW	A	kA		A			A
45	80	100	GV4L/GV4LE115●	1265	LC1G115	LR9G115	80
45	80	100	NSX100● + MA	1100	LC1G115	LR9G115	80
55	97	130	GV4L/GV4LE115●	1265	LC1G115	LR9G225	97
55	97	130	NSX160● + MA	1500	LC1G115	LR9G225	97
75	132	130	NSX250● + MA	1800	LC1G150	LR9G225	132
90	160	130	NSX250● + MA	2640	LC1G185	LR9G225	160
110	195	130	NSX400● + MicroLogic 1.3 M	2640	LC1G225	LR9G225	195
110	195	130	NSX400● + MicroLogic 1.3 M	3520	LC1G265	LR9G500	195
132	230	130	NSX400● + MicroLogic 1.3 M	3520	LC1G265	LR9G500	230
160	280	130	NSX630● + MicroLogic 1.3 M	3840	LC1G330	LR9G500	280
200	350	130	NSX630● + MicroLogic 1.3 M	5500	LC1G400	LR9G500	350
220	380	130	NSX630● + MicroLogic 1.3 M	5500	LC1G500	LR9G500	380
250	430	130	NS800● + MicroLogic 5.0 LR OFF	6000	LC1G500	LR9G500	430
300	500	130	NS800● + MicroLogic 5.0 LR OFF	6400	LC1G630	LR9G630	500
335	575	130	NS800● + MicroLogic 5.0 LR OFF	7200	LC1G630	LR9G630	575

(1) Product type to be completed by replacing the ● with the breaking performance code:

Rated conditional short-circuit (kA)	GV4L115●/ GV4LE115●			NSX100●/ NSX160●/ NSX250●/ NSX400●/ NSX630●					NS800●
Breaking performance code	B	N	S	F	N	H	S	L	L
400/415 V	25	50	100	36	50	70	100	130	150

55 to 355 kW at 440 V: type 2 coordination (with TeSys GV4 or ComPacT NSX / NS circuit breakers and LR9G overload relays)

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Circuit breaker		Contactor	Electronic thermal overload relay	
440 V			Product type (1)	Irm (2)	Product type	Product type	Ir setting (2)
P	Ie	Iq (max)					
kW	A	kA		A			A
55	88	130	GV4L/GV4LE115●	1265	LC1G115	LR9G115	88
55	88	130	NSX160● + MA	1500	LC1G115	LR9G115	88
75	120	130	NSX160● + MA	1800	LC1G150	LR9G225	120
90	145	130	NSX250● + MA	2640	LC1G150	LR9G225	145
110	176	130	NSX250● + MA	2640	LC1G185	LR9G225	177
132	209	130	NSX400● + MicroLogic 1.3 M	2860	LC1G225	LR9G225	209
160	255	130	NSX400● + MicroLogic 1.3 M	3520	LC1G265	LR9G500	255
200	318	130	NSX630● + MicroLogic 1.3 M	4160	LC1G330	LR9G500	318
220	343	130	NSX630● + MicroLogic 1.3 M	5500	LC1G400	LR9G500	343
250	390	130	NSX630● + MicroLogic 1.3 M	5500	LC1G400	LR9G500	390
300	466	130	NS800● + MicroLogic 5.0 LR OFF	6500	LC1G500	LR9G500	466
335	521	130	NS800● + MicroLogic 5.0 LR OFF	6400	LC1G630	LR9G630	521
355	554	130	NS800● + MicroLogic 5.0 LR OFF	7200	LC1G630	LR9G630	554

(1) Product type to be completed by replacing the ● with the breaking performance code:

Rated conditional short-circuit (kA)	GV4L115●/ GV4LE115●			NSX100●/ NSX160●/ NSX250●					NSX400●/ NSX630●					NS800●
Breaking performance code	B	N	S	F	N	H	S	L	F	N	H	S	L	L
440 V	20	50	70	35	50	65	100	130	30	42	65	100	130	150

(2) This setting is a general guidance, Ir and Irm should be adjusted according to motor characteristics and conditions of use.

65 to 425 kW at 500 V: type 2 coordination (with TeSys GV4 or ComPacT NSX / NS circuit breakers and LR9G overload relays)

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Circuit breaker		Contactor	Electronic thermal overload relay	
500 V			Product type (1)	Irm (2)	Product type	Product type	Ir setting (2)
P	Ie	Iq (max)					
kW	A	kA		A			A
65	92	100	GV4L/GV4LE115●	1265	LC1G115	LR9G115	92
65	92	100	NSX160● + MA150	1300	LC1G115	LR9G115	92
90	128	100	NSX250● + MA220	1950	LC1G150	LR9G225	128
110	156	100	NSX250● + MA220	2200	LC1G185	LR9G225	156
132	184	100	NSX400● + MicroLogic 1.3 M	2560	LC1G225	LR9G225	184
160	224	70	NSX400● + MicroLogic 1.3 M	3200	LC1G265	LR9G500	224
200	280	70	NSX630● + MicroLogic 1.3 M	3840	LC1G330	LR9G500	280
250	344	70	NSX630● + MicroLogic 1.3 M	5500	LC1G400	LR9G500	344
295	405	70	NSX630● + MicroLogic 1.3 M	6500	LC1G500	LR9G500	405
375	516	70	NS800● + MicroLogic 5.0 LR OFF	6400	LC1G630	LR9G630	516
425	584	70	NS800● + MicroLogic 5.0 LR OFF	7200	LC1G800	LR9G630	584

(1) Product type to be completed by replacing the ● with the breaking performance code:

Rated conditional short-circuit (kA)	GV4L115●/ GV4LE115●			NSX100●					NSX160●/ NSX250●					NSX400●/ NSX630●					NS800●
Breaking performance code	B	N	S	F	N	H	S	L	F	N	H	S	L	F	N	H	S	L	L
500 V	10	25	30	25	36	50	65	70	30	36	50	65	70	25	30	50	65	70	100

(2) This setting is a general guidance, Ir and Irm should be adjusted according to motor characteristics and conditions of use.

Coordination: Magnetic circuit breaker + Contactor + Overload relay

0.06 to 30 kW at 400/415 and 690 V: type 2 coordination

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e						Circuit breaker			Contactor	Electronic thermal overload relay	
400/415 V			690 V			Reference	Rating	Irm	Reference	Reference	Setting range
P	Ie	Iq	P	Ie	Iq						
kW	A	kA	kW	A	kA		A	A			A
0.06	0.2	100	**–**	–	–	**GV2L03**	0.4	5	**LC1D09**	**LR9D01**	0.1…0.5
0.09	0.3	100	**–**	–	–	**GV2L03**	0.4	5	**LC1D09**	**LR9D01**	0.1…0.5
0.12	0.44	100	**–**	–	–	**GV2L04**	0.63	8	**LC1D18**	**LR9D02**	0.4…2.0
0.18	0.6	100	**–**	–	–	**GV2L05**	1	8	**LC1D18**	**LR9D02**	0.4…2.0
0.25	0.85	100	**–**	–	–	**GV2L05**	1	13	**LC1D18**	**LR9D02**	0.4…2.0
0.37	1.1	100	**–**	–	–	**GV2L06**	1.6	13	**LC1D18**	**LR9D02**	0.4…2.0
0.55	1.5	100	**–**	–	–	**GV2L06**	1.6	22.5	**LC1D18**	**LR9D02**	0.4…2.0
0.75	1.9	100	**–**	–	–	**GV2L07**	2.5	33.5	**LC1D18**	**LR9D08**	1.6…8.0
1.1	2.7	100	**–**	–	–	**GV2L08**	4	51	**LC1D18**	**LR9D08**	1.6…8.0
1.5	3.6	100	**–**	–	–	**GV2L08**	4	51	**LC1D18**	**LR9D08**	1.6…8.0
2.2	4.9	100	**–**	–	–	**GV2L10**	6.3	78	**LC1D18**	**LR9D08**	1.6…8.0
3	6.5	100	**–**	–	–	**GV2L14**	10	138	**LC1D25**	**LR9D32**	6.4…32
4	8.5	100	**–**	–	–	**GV2L14**	10	138	**LC1D25**	**LR9D32**	6.4…32
5.5	11.5	100	**–**	–	–	**GV2L16**	14	170	**LC1D25**	**LR9D32**	6.4…32
7.5	15.5	50	**–**	–	–	**GV2L20**	18	223	**LC1D25**	**LR9D32**	6.4…32
11	22	50	**–**	–	–	**GV2L22**	25	327	**LC1D25**	**LR9D32**	6.4…32
15	29	50	**–**	–	–	**GV3L32**	40	448	**LC1D65A**	**LR9D110S**	22…110
18.5	35	50	**–**	–	–	**GV3L40**	40	560	**LC1D65A**	**LR9D110S**	22…110
22	41	50	**–**	–	–	**GV3L50**	50	700	**LC1D65A**	**LR9D110S**	22…110
30	55	50	**–**	–	–	**GV3L65**	65	910	**LC1D65A**	**LR9D110S**	22…110
–	–	–	**0.37**	0.64	50	**GV2L05**	1	13	**LC1D09**	**LR9D02**	0.4…2.0
–	–	–	**0.55**	0.87	50	**GV2L05**	1	13	**LC1D09**	**LR9D02**	0.4…2.0
–	–	–	**0.75**	1.1	50	**GV2L06**	1.6	22.5	**LC1D09**	**LR9D02**	0.4…2.0
–	–	–	**1.1**	1.6	50	**GV2L07 + LA9LB920** (1)	2.5	33.5	**LC1D25**	**LR9D08**	1.6…8.0
–	–	–	**1.5**	2.1	50	**GV2L07 + LA9LB920** (1)	2.5	33.5	**LC1D25**	**LR9D08**	1.6…8.0
–	–	–	**2.2**	2.8	50	**GV2L08 + LA9LB920** (1)	4	51	**LC1D25**	**LR9D08**	1.6…8.0
–	–	–	**3**	4	50	**GV2L08 + LA9LB920** (1)	4	51	**LC1D25**	**LR9D08**	1.6…8.0
–	–	–	**4**	5	50	**GV2L10 + LA9LB920** (1)	6.3	78	**LC1D25**	**LR9D08**	1.6…8.0
–	–	–	**5.5**	7	50	**GV2L14 + LA9LB920** (1)	10	138	**LC1D25**	**LR9D32**	6.4…32
–	–	–	**7.5**	8.9	50	**GV2L16 + LA9LB920** (1)	14	138	**LC1D25**	**LR9D32**	6.4…32
–	–	–	**11**	13	3	**GV3L16 + LA9LB920** (1)	14	252	**LC1D32**	**LR9D32**	6.4…32
–	–	–	**15**	16.5	3	**GV2L22 + LA9LB920** (1)	18	327	**LC1D32**	**LR9D32**	6.4…32
–	–	–	**18.5**	21	3	**GV3L25 + LA9LB920** (1)	25	350	**LC1D65A**	**LR9D32**	6.4…32
–	**–**	**–**	**22**	25	3	**GV2L32 + LA9LB920** (1)	32	416	**LC1D65A**	**LR9D32**	6.4…32

*(1) For more information about the current limiter **LA9LB920**, please refer to pages A4/31 and A4/61 of TeSys Catalog, ref. MKTED210011EN.*

30 to 500 kW at 690 V: type 2 coordination (with ComPacT NSX/NS circuit breakers and LR9G overload relays)

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Circuit breaker		Contactor	Electronic thermal overload relay	
690 V			Product type (1)	Irm (2)	Product type	Product type	Ir setting (2)
P	Ie	Iq (max)					
kW	A	kA		A			A
30	32	100	**NSX100● + MA**	550	**LC1G115**	**LR9G115**	32
37	39	100	**NSX100● + MA**	550	**LC1G115**	**LR9G115**	39
45	47	100	**NSX100● + MA**	650	**LC1G115**	**LR9G115**	47
55	57	100	**NSX100● + MA**	1100	**LC1G115**	**LR9G115**	57
75	77	100	**NSX100● + MA**	1100	**LC1G115**	**LR9G225**	77
90	93	100	**NSX250● + MA**	1650	**LC1G150**	**LR9G225**	93
110	113	100	**NSX250● + MA**	1650	**LC1G185**	**LR9G225**	113
132	134	100	**NSX250● + MA**	1800	**LC1G225**	**LR9G225**	134
160	162	100	**NSX250● + MA**	2420	**LC1G225**	**LR9G225**	162
200	203	100	**NSX400● + MicroLogic 1.3 M**	2640	**LC1G265**	**LR9G500**	203
220	223	100	**NSX400● + MicroLogic 1.3 M**	3520	**LC1G330**	**LR9G500**	223
250	250	100	**NSX400● + MicroLogic 1.3 M**	3520	**LC1G400**	**LR9G500**	250
315	313	100	**NSX630● + MicroLogic 1.3 M**	5500	**LC1G400**	**LR9G500**	313
335	335	100	**NSX630● + MicroLogic 1.3 M**	5500	**LC1G500**	**LR9G500**	335
355	354	100	**NSX630● + MicroLogic 1.3 M**	5500	**LC1G500**	**LR9G500**	354
375	374	100	**NSX630● + MicroLogic 1.3 M**	5500	**LC1G630**	**LR9G630**	374
400	400	100	**NSX630● + MicroLogic 1.3 M**	5500	**LC1G630**	**LR9G630**	400
450	455	100	**NS800● + MicroLogic 5.0 LR OFF**	6000	**LC1G630**	**LR9G630**	455
475	475	100	**NS800● + MicroLogic 5.0 LR OFF**	6500	**LC1G630**	**LR9G630**	475
500	493	100	**NS800● + MicroLogic 5.0 LR OFF**	6500	**LC1G630**	**LR9G630**	493

(1) Product type to be completed by replacing the ● with the breaking performance code:

Rated conditional short-circuit (kA)	NSX100●/ NSX250●/ NSX400●/ NSX630●	
Breaking performance code	HB1	HB2
690 V	75	100

(2) This setting is a general guidance, Ir and Irm should be adjusted according to motor characteristics and conditions of use.

1.5 to 355 kW at 400/415 and 440 V: type 2 coordination

Maximum operating rate: LC1D: 30 starts/hour; LC1F: 12 starts/hour.
Maximum starting time: LC1D: 30 seconds; LC1F: 20 seconds.

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e						Switch-disconnector-fuse	aM fuses		Star-Delta contactors	Thermal overload relay	
400/415 V			440 V			Reference	Size	Rating	Reference	Reference	Setting range
P	Ie	Iq	P	Ie	Iq						
kW	A	kA	kW	A	kA			A			A
1.5	3.6	50	**1.5**	3.3	50	**GS1DD**	10 x 38	4	3 x **LC1D09**	**LRD08**	2.5…4
2.2	4.9	50	**2.2**	4.5	50	**GS1DD**	10 x 38	6	3 x **LC1D09**	**LRD10**	4…6
3	6.5	50	**3**	5.9	50	**GS1DD**	10 x 38	8	3 x **LC1D09**	**LRD12**	5.5…8
4	8.5	50	**4**	7.8	50	**GS1DD**	10 x 38	10	3 x **LC1D09**	**LRD14**	7…10
5.5	11.5	50	**5.5**	10.5	50	**GS1DD**	10 x 38	16	3 x **LC1D12**	**LRD16**	9…13
7.5	15.5	50	**7.5**	14.1	50	**GS1DD**	10 x 38	16	3 x **LC1D18**	**LRD21**	12…18
9	18.1	100	**9**	16.9	100	**GS●F**	14 x 51	25	3 x **LC1D25**	**LRD22**	
11	22	100	**11**	20	100						16…24
15	29	100	**15**	27	100	**GS●F**	14 x 51	32	3 x **LC1D32**	**LRD32**	23…32
18.5	35	100	**18.5**	34	100	**GS●F**	14 x 51	40	3 x **LC1D40A**	**LRD340**	30…40
22	41	100	**22**	39	100	**GS●J**	22 x 58	50	3 x **LC1D50A**	**LRD350**	37…50
30	55	100	**30**	51	100	**GS●J**	22 x 58	80	3 x **LC1D65A**	**LRD365**	48…65
37	66	100	**37**	64	100	**GS●J**	22 x 58	80	3 x **LC1D80**	**LRD3363**	63…80
–	–	–	**45**	73	100	**GS●J**	22 x 58	80	3 x **LC1D80**	**LRD3365**	80…104
45	80	100	–	–	–	**GS●J**	22 x 58	100	2 x **LC1D115A** + **LC1D40A**	**LR9D5367**	60…100
–	–	–	**55**	88	100	**GS●L**	T0	125	2 x **LC1D115A** + **LC1D40A**	**LR9G115**	28...115
55	97	100	–	–	–	**GS●L**	T0	125	2 x **LC1D115A** + **LC1D40A**	**LR9G115**	28...115
–	–	–	**75**	120	100	**GS●L**	T0	160	2 x **LC1D115A** + **LC1D50A**	**LR9G115**	28...115

Coordination: Star-Delta with Fuses (DIN type aM) + Contactors + Overload relay

Contactor: **Maximum operating rate**: 30 starts/hour - **Maximum starting time**: 30 seconds.
The coordination table is for normal starting conditions (Class 10e/ 20e). For other heavy starting applications with long start times, please contact your technical support.
RE17RMMWS timer to be used for Star-Delta starter application.

90 to 335 kW at 400/415 V: type 2 coordination

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Switch-disconnector	aM fuses		Contactor Line (KM2) / Delta (KM3) (1)	Contactor Star (KM1) (1)	Electronic thermal overload relay	
400/415 V			Product type	Size	Rating	Product type		Product type	Ir setting (2)
P	Ie	Iq (max)							
kW	A	kA			A				A
90	160	80	GS•N	1	200	LC1G115	LC1D65	LR9G115	92
110	195	80	GS•N	1	250	LC1G150	LC1D80	LR9G225	113
132	230	80	GS•QQ	2	315	LC1G185	LC1G115	LR9G225	133
160	280	80	GS•QQ	2	400	LC1G225	LC1G115	LR9G225	162
200	350	80	GS2•S	3	500	LC1G265	LC1G115	LR9G225	202
220	380	80	GS2•S	3	500	LC1G330	LC1G150	LR9G500	219
250	430	80	GS2•S	3	500	LC1G400	LC1G150	LR9G500	248
315	540	80	GS2•S	3	630	LC1G500	LC1G225	LR9G500	312
335	575	80	GS2•V	4	800	LC1G500	LC1G225	LR9G500	332

110 to 400 kW at 440 V: type 2 coordination

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3			Switch-disconnector	aM fuses		Contactor Line (KM2) / Delta (KM3) (1)	Contactor Star (KM1) (1)	Electronic thermal overload relay	
440 V			Product type	Size	Rating	Product type		Product type	Ir setting (2)
P	Ie	Iq max							
kW	A	kA			A				A
110	177	80	GS•N	1	200	LC1G115	LC1D65	LR9G115	102
132	209	80	GS•N	1	250	LC1G150	LC1D80	LR9G225	121
160	255	80	GS•QQ	2	315	LC1G150	LC1G115	LR9G225	147
200	318	80	GS•QQ	2	400	LC1G185	LC1G115	LR9G225	184
220	343	80	GS2•S	3	500	LC1G225	LC1G115	LR9G225	198
250	390	80	GS2•S	3	500	LC1G265	LC1G150	LR9G500	225
315	490	80	GS2•S	3	500	LC1G330	LC1G185	LR9G500	283
355	554	80	GS2•S	3	630	LC1G330	LC1G225	LR9G500	320
400	627	80	GS2•V	4	800	LC1G400	LC1G225	LR9G500	362

90 to 315 kW at 500 V: type 2 coordination

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3			Switch-disconnector	aM fuses		Contactor Line (KM2) / Delta (KM3) (1)	Contactor Star (KM1) (1)	Electronic thermal overload relay	
500 V			Product type	Size	Rating	Product type		Product type	Ir setting (2)
P	Ie	Iq max							
kW	A	kA			A				A
90	128	80	GS•N	1	200	LC1G115	LC1D65	LR9G115	74
110	156	80	GS•N	1	250	LC1G115	LC1D65	LR9G115	90
132	184	80	GS•QQ	2	315	LC1G115	LC1D65	LR9G225	106
160	224	80	GS•QQ	2	400	LC1G150	LC1D80	LR9G225	129
200	280	80	GS2•S	3	500	LC1G185	LC1G115	LR9G225	162
220	308	80	GS2•S	3	500	LC1G185	LC1G115	LR9G500	178
250	344	80	GS2•S	3	500	LC1G225	LC1G150	LR9G500	199
315	432	80	GS2•S	3	630	LC1G265	LC1G185	LR9G630	249

(1) Please refer to diagram page A3/37.
(2) This setting is a general guidance, Ir should be adjusted according to motor characteristics and conditions of use.

Coordination: Star-Delta with BS fuses + Contactors + Overload relay

1.5 to 80 kW at 400/415 and 440 V: type 2 coordination

Maximum operating rate: LC1D: 30 starts/hour.
Maximum starting time: LC1D: 30 seconds.

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e						Switch-disconnector-fuse	BS fuses		Star-Delta contactors	Thermal overload relay	
400/415 V			440 V			Reference	Size	Rating	Reference	Reference	Setting range
P	Ie	Iq	P	Ie	Iq						
kW	A	kA	kW	A	kA			A			A
1.5	3.6	50	**1.5**	3.3	50	**GS1DDB**	A1	NIT 16	3 x **LC1D09**	**LRD08**	2.5…4
2.2	4.9	50	**2.2**	4.5	50	**GS1DDB**	A1	NIT 16	3 x **LC1D09**	**LRD10**	4…6
3	6.5	50	**3**	5.9	50	**GS1DDB**	A1	NIT 20	3 x **LC1D09**	**LRD12**	5.5…8
4	8.5	50	**4**	7.8	50	**GS1DDB**	A1	NIT 20	3 x **LC1D09**	**LRD14**	7…10
5.5	11.5	50	**5.5**	10.5	50	**GS1DDB**	A1	NIT 20M25	3 x **LC1D12**	**LRD16**	9…13
7.5	15.5	50	**7.5**	14.1	50	**GS1DDB**	A1	NIT 20M32	3 x **LC1D18**	**LRD21**	12…18
9	18.1	50	**9**	16.9	50	**GS2GB**	A2	TIA 32M35	3 x **LC1D18**	**LRD21**	12…18
11	22	80	**11**	20	50	**GS2GB**	A2	TIA 32M50	3 x **LC1D25**	**LRD22**	16…24
15	29	80	**15**	27	50	**GS2GB**	A2	TIA 32M63	3 x **LC1D32**	**LRD32**	23…32
22	41	50	**22**	39	50	**GS2GB**	A3	TIS 63M80	3 x **LC1D50A**	**LRD350**	37…50
–	–	–	**30**	51	50	**GS2GB**	A3	TIS 63M100	3 x **LC1D65A**	**LRD365**	48…65
30	55	50	**–**	–	–	**GS2GB**	A3	TIS 63M100	3 x **LC1D65A**	**LRD365**	48…65
45	80	50	**45**	73	50	**GS2LLB**	A4	TCP 100M125	3 x **LC1D80** (1)	**LRD3357** + **LA7D3058**	37...50
55	97	80	**55**	88	80	**GS2LLB**	A4	TCP 100M160	2 x **LC1D115A** + **LC1D40A**	**LRD3359** + **LA7D3058**	48...65
80	141	80	**80**	128	80	**GS2LB**	B2	TF 200M250	2 x **LC1D115A** + **LC1D50A**	**LRD3363** + **LA7D3058**	90...150

(1) Only electromechanical coils are available for this contactor rating.

1.5 to 90 kW at 400/415 V and 440 V: type 2 coordination

Maximum operating rate: LC1D: 30 starts/hour.
Maximum starting time: LC1D: 30 seconds.

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3e								Circuit breaker		Star-delta contactors
400/415 V				440 V				Reference	Setting range of thermal trips	Reference
P	Ie	IrD (6)	Iq	P	Ie	IrD (6)	Iq (1)			
kW	A	A	kA	kW	A	A	kA		A	
1.5	3.6	–	130	**1.5**	3.3	–	130	**GV2P08**	2.5…4	3 x **LC1D09** (2)
2.2	4.9	–	130	**2.2**	4.5	–	130	**GV2P10**	4…6.3	3 x **LC1D18** (3)
–	–	–	–	**3**	5.9	–	130	**GV2P10**	4...6.3	3 x **LC1D18** (3)
3	6.5	–	130	–	–	–	–	**GV2P14**	6…10	3 x **LC1D18** (3)
4	8.5	–	130	**4**	7.8	–	130	**GV2P14**	6…10	3 x **LC1D18** (3)
5.5	11.5	–	50	**5.5**	10.5	–	50	**GV2P16**	9…14	3 x **LC1D25** (3)
–	–	–	–	**7.5**	14.1	–	50	**GV2P16**	9…14	3 x **LC1D25** (3)
7.5	15.5	–	50	**9**	16.9	–	20	**GV2P20**	13…18	3 x **LC1D25** (3)
9	18.1	–	50	**11**	20	–	20	**GV2P21**	17…23	3 x **LC1D25** (3)
11	22	–	50	–	–	–	–	**GV2P22**	20…25	3 x **LC1D25** (3)
15	29	–	50	**15**	27	–	50	**GV3P32**	23…32	3 x **LC1D40A** (4)
18.5	35	–	50	–	–	–	–	**GV3P40**	30…40	2 x **LC1D50A** + **LC1D40A** (3)
–	–	–	–	**18.5**	32	–	50	**GV3P40**	30…40	2 x **LC1D65A** + **LC1D40A** (4)
22	41	–	50	–	–	–	–	**GV3P50**	37…50	2 x **LC1D50A** + **LC1D40A** (3)
–	–	–	–	**22**	39	–	50	**GV3P50**	37…50	2 x **LC1D65A** + **LC1D40A** (4)
30	55	–	50	**30**	51	–	50	**GV3P65**	48…65	2 x **LC1D65A** + **LC1D40A** (4)
37	66	–	100	**37**	73	–	70	**GV4P80S**	40…80	3 x **LC1D80** (7)
–	–	–	–	**45**	73	–	70	**GV4P80S**	40…80	3 x **LC1D65A** (4)
45	80	–	100	–	–	–	–	**GV4P115S**	65…115	2 x **LC1D115A** + **LC1D40A**
55	97	–	100	**55**	88	–	70	**GV4P115S**	65…115	2 x **LC1D115A** + **LC1D50A**
75	132	78	70	**75**	120	74	65	**GV5P150H**	70…150	2 x **LC1D115A** + **LC1D50A**
–	–	–	–	**90**	146	86	65	**GV5P150H**	70…150	2 x **LC1D115A** + **LC1D50A**

*(1) The breaking performance of circuit breakers **GV2P** can be increased by adding a current limiter **GV1L3**, please refer to page B6/21 of TeSys Catalog - ref. MKTED210011EN.*
*(2) For mounting 3 contactors **LC1D09**, Star-Delta starter kit **LAD91217** must be ordered separately, please refer to page A1/20.*
*(3) For mounting 3 contactors **LC1D18** or **LC1D25**, Star-Delta starter kit **LAD93217** must be ordered separately, please refer to page A1/20.*
*(4) For mounting 3 contactors **LC1D●●A**, Star-Delta starter kit **LAD9SD3** must be ordered separately, please refer to page A1/20.*
*(5) For mounting 3 contactors **LC1D80**, Star-Delta starter kit **LA9D8017** must be ordered separately, please refer to page A1/20.*
(6) IrD: current in the motor windings in delta connection.
(7) Only electromechanical coils are available for this contactor rating.

Coordination: Star-Delta with Thermal magnetic circuit breaker + Contactors

Contactor: **Maximum operating rate**: 30 starts/hour - **Maximum starting time**: 30 seconds.
The coordination table is for normal starting conditions (Class 10e/ 20e). For other heavy starting applications with long start times, please contact your technical support.
RE17RMMWS timer to be used for Star-Delta starter application.

90 to 250 kW at 400/415 V: type 2 coordination (with TeSys GV5 / GV6 circuit breakers)

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Circuit breaker			Contactor Line (KM2) / Delta (KM3) [3]	Contactor Star (KM1) [3]
400/415 V			Product type [1]	Ir setting [2]	Irm [2]	Product type	
P	Ie	Iq (max)					
kW	A	kA		A	A		
90	160	70	**GV5P220●**	170	1360	**LC1G115**	**LC1D65**
110	195	70	**GV5P220●**	200	1600	**LC1G150**	**LC1D80**
110	195	70	**GV6P320●**	200	1600	**LC1G150**	**LC1D80**
132	230	70	**GV6P320●**	240	1920	**LC1G150**	**LC1D95**
160	280	70	**GV6P320●**	300	2400	**LC1G185**	**LC1G115**
200	350	70	**GV6P500●**	380	3040	**LC1G225**	**LC1G115**
220	380	70	**GV6P500●**	400	3200	**LC1G265**	**LC1G150**
250	430	70	**GV6P500●**	440	3520	**LC1G265**	**LC1G150**

(1) Product type to be completed by replacing the ● with the breaking performance code:

Rated conditional short-circuit (kA)	GV5P220● GV6P320●/GV6P500●	
Breaking performance code	**F**	**H**
400/415 V	36	70

90 to 450 kW at 400/415 V: type 2 coordination (with ComPact NSX / NS circuit breakers)

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Circuit breaker			Contactor Line (KM2) / Delta (KM3) [3]	Contactor Star (KM1) [3]
400/415 V			Product type [1]	Ir setting [2]	Irm [2]	Product type	
P	Ie	Iq (max)					
kW	A	kA		A	A		
90	160	130	**NSX250● + MicroLogic 2.2 M**	170	1360	**LC1G115**	**LC1D65**
110	195	130	**NSX250● + MicroLogic 2.2 M**	200	1600	**LC1G150**	**LC1D80**
110	195	130	**NSX400● + MicroLogic 2.3 M**	200	1600	**LC1G150**	**LC1D80**
132	230	130	**NSX400● + MicroLogic 2.3 M**	240	1920	**LC1G150**	**LC1D95**
160	280	130	**NSX400● + MicroLogic 2.3 M**	300	2400	**LC1G185**	**LC1G115**
200	350	130	**NSX630● + MicroLogic 2.3 M**	380	3040	**LC1G225**	**LC1G115**
220	380	130	**NSX630● + MicroLogic 2.3 M**	400	3200	**LC1G265**	**LC1G150**
250	430	130	**NSX630● + MicroLogic 2.3 M**	440	3520	**LC1G265**	**LC1G150**
300	500	130	**NS800● + MicroLogic 5.0**	480	4480	**LC1G330**	**LC1G185**
335	575	130	**NS800● + MicroLogic 5.0**	640	5120	**LC1G400**	**LC1G225**
355	610	130	**NS800● + MicroLogic 5.0**	640	5120	**LC1G400**	**LC1G225**
400	690	130	**NS800● + MicroLogic 5.0**	720	5760	**LC1G500**	**LC1G265**
450	770	130	**NS1000● + MicroLogic 5.0**	784	6272	**LC1G500**	**LC1G330**

(1) Product type to be completed by replacing the ● with the breaking performance code:

Rated conditional short-circuit (kA)	NSX250●/ NSX400●/ NSX630●					NS800●/ NS1000●
Breaking performance code	**F**	**N**	**H**	**S**	**L**	**L**
400/415 V	36	50	70	100	150	150

(2) This setting is a general guidance, Ir and Irm should be adjusted according to motor characteristics and conditions of use.
(3) Please refer to diagram page A3/37.

Coordination: Star-Delta with Thermal magnetic circuit breaker + Contactors

Contactor: **Maximum operating rate**: 30 starts/hour - **Maximum starting time**: 30 seconds.
The coordination table is for normal starting conditions (Class 10e/ 20e). For other heavy starting applications with long start times, please contact your technical support.
RE17RMMWS timer to be used for Star-Delta starter application.

110 to 300 kW at 440 V: type 2 coordination (with TeSys GV5 / GV6 circuit breakers)

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Circuit breaker			Contactor Line (KM2) / Delta (KM3) [3]	Contactor Star (KM1) [3]
440 V			Product type [1]	Ir setting [2]	Irm [2]	Product type	
P	Ie	Iq (max)					
kW	A	kA		A	A		
110	177	65	GV5P220●	185	1480	LC1G115	LC1D65
132	209	65	GV5P220●	210	1680	LC1G150	LC1D80
160	255	65	GV6P320●	260	2080	LC1G185	LC1G115
200	318	65	GV6P320●	320	2560	LC1G225	LC1G115
220	343	65	GV6P500●	350	2800	LC1G225	LC1G150
250	390	65	GV6P500●	400	3200	LC1G265	LC1G150
300	466	65	GV6P500●	470	3760	LC1G330	LC1G185

(1) Product type to be completed by replacing the ● with the breaking performance code:

Rated conditional short-circuit (kA)	GV5P220●		GV6P320●/GV6P500●	
Breaking performance code	F	H	F	H
440 V	35	65	30	65

110 to 450 kW at 440 V: type 2 coordination (with ComPacT NSX / NS circuit breakers)

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Circuit breaker			Contactor Line (KM2) / Delta (KM3) [3]	Contactor Star (KM1) [3]
440 V			Product type [1]	Ir setting [2]	Irm [2]	Product type	
P	Ie	Iq (max)					
kW	A	kA		A	A		
110	177	130	NSX250● + MicroLogic 2.2 M	185	1480	LC1G115	LC1D65
132	209	130	NSX250● + MicroLogic 2.2 M	210	1680	LC1G150	LC1D80
160	255	130	NSX400● + MicroLogic 2.3 M	260	2080	LC1G185	LC1G115
200	318	130	NSX400● + MicroLogic 2.3 M	320	2560	LC1G225	LC1G115
220	343	130	NSX630● + MicroLogic 2.3 M	350	2800	LC1G225	LC1G150
250	390	130	NSX630● + MicroLogic 2.3 M	400	3200	LC1G265	LC1G150
300	466	130	NSX630● + MicroLogic 2.3 M	470	3760	LC1G330	LC1G185
335	521	130	NS800● + MicroLogic 5.0	560	4480	LC1G330	LC1G185
355	554	130	NS800● + MicroLogic 5.0	560	4480	LC1G400	LC1G225
400	627	130	NS800● + MicroLogic 5.0	640	5120	LC1G400	LC1G225
450	695	130	NS800● + MicroLogic 5.0	720	5760	LC1G500	LC1G265

(1) Product type to be completed by replacing the ● with the breaking performance code:

Rated conditional short-circuit (kA)	NSX250●					NSX400● / NSX630●					NS800●
Breaking performance code	F	N	H	S	L	F	N	H	S	L	L
440 V	35	50	65	100	130	30	42	65	100	130	130

(2) This setting is a general guidance, Ir and Irm should be adjusted according to motor characteristics and conditions of use.
(3) Please refer to diagram page A3/37.

Coordination: Star-Delta with Thermal magnetic circuit breaker + Contactors

Contactor: **Maximum operating rate**: 30 starts/hour - **Maximum starting time**: 30 seconds.
The coordination table is for normal starting conditions (Class 10e/ 20e). For other heavy starting applications with long start times, please contact your technical support.
RE17RMMWS timer to be used for Star-Delta starter application.

132 to 295 kW at 500 V: type 2 coordination (with TeSys GV5 / GV6 circuit breakers)

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Circuit breaker			Contactor Line (KM2) / Delta (KM3) (3)	Contactor Star (KM1) (3)
500 V			Product type (1)	Ir setting (2)	Irm (2)	Product type	
P	Ie	Iq (max)					
kW	A	kA		A	A		
132	184	50	GV5P220●	185	1480	LC1G115	LC1D65
160	224	50	GV6P320●	240	1920	LC1G150	LC1D80
200	280	50	GV6P320●	300	2400	LC1G185	LC1G115
250	344	50	GV6P500●	350	2800	LC1G225	LC1G115
295	405	50	GV6P500●	440	3520	LC1G265	LC1G150

(1) Product type to be completed by replacing the ● with the breaking performance code:

Rated conditional short-circuit (kA)	GV5P220●		GV6P320●/ 500●	
Breaking performance code	F	H	F	H
500 V	30	50	25	50

132 to 425 kW at 500 V: type 2 coordination (with ComPact NSX / NS circuit breakers)

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Circuit breaker			Contactor Line (KM2) / Delta (KM3) (3)	Contactor Star (KM1) (3)
500 V			Product type (1)	Ir setting (2)	Irm (2)	Product type	
P	Ie	Iq (max)					
kW	A	kA		A	A		
132	184	70	NSX250● + MicroLogic 2.2 M	185	1480	LC1G115	LC1D65
160	224	70	NSX400● + MicroLogic 2.3 M (4)	240	1920	LC1G150	LC1D80
200	280	70	NSX400● + MicroLogic 2.3 M (4)	300	2400	LC1G185	LC1G115
250	344	70	NSX630● + MicroLogic 2.3 M (4)	350	2800	LC1G225	LC1G115
295	405	70	NSX630● + MicroLogic 2.3 M (4)	440	3520	LC1G265	LC1G150
375	516	70	NS800● + MicroLogic 5.0	560	4480	LC1G330	LC1G185
425	584	70	NS800● + MicroLogic 5.0	640	5120	LC1G400	LC1G225

(1) Product type to be completed by replacing the ● with the breaking performance code:

Rated conditional short-circuit (kA)	NSX250●					NSX400●/ NSX630●					NS800●
Breaking performance code	F	N	H	S	L	F	N	H	S	L	L
500 V	30	36	50	65	70	25	30	50	65	70	100

(2) This setting is a general guidance, Ir and Irm should be adjusted according to motor characteristics and conditions of use.
(3) Please refer to diagram page A3/37.
(4) Applicable also with MicroLogic 6.2 E-M and 6.3 E-M trip units.

Coordination: Star-Delta with Thermal magnetic circuit breaker + Contactors

Contactor: **Maximum operating rate**: 30 starts/hour - **Maximum starting time**: 30 seconds.
The coordination table is for normal starting conditions (Class 10e/ 20e). For other heavy starting applications with long start times, please contact your technical support.
RE17RMMWS timer to be used for Star-Delta starter application.

55 to 560 kW at 690 V: type 2 coordination (with ComPact NSX / NS circuit breakers)

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Circuit breaker			Contactor Line (KM2) / Delta (KM3) [3]	Contactor Star (KM1) [3]
690 V			Product type [1]	Ir setting [2]	Irm [2]	Product type	
P	Ie	Iq (max)					
kW	A	kA		A	A		
55	57	75	**NSX100● + MicroLogic 2.2 M**	60	1500	**LC1G115**	**LC1G115**
75	77	75	**NSX100● + MicroLogic 2.2 M**	80	1500	**LC1G115**	**LC1G115**
90	93	75	**NSX250● + MicroLogic 2.2 M**	95	1500	**LC1G150**	**LC1G115**
110	113	75	**NSX250● + MicroLogic 2.2 M**	115	2250	**LC1G185**	**LC1G115**
132	134	75	**NSX250● + MicroLogic 2.2 M**	140	2250	**LC1G225**	**LC1G115**
160	162	75	**NSX250● + MicroLogic 2.2 M**	170	3300	**LC1G225**	**LC1G115**
200	203	75	**NSX250● + MicroLogic 2.2 M**	210	3300	**LC1G265**	**LC1G150**
220	223	75	**NSX400● + MicroLogic 2.3 M**	240	4800	**LC1G330**	**LC1G185**
250	250	75	**NSX400● + MicroLogic 2.3 M**	260	4800	**LC1G400**	**LC1G225**
315	313	75	**NSX630● + MicroLogic 2.3 M**	320	4800	**LC1G400**	**LC1G225**
335	335	75	**NSX630● + MicroLogic 2.3 M**	350	6500	**LC1G500**	**LC1G265**
355	354	75	**NSX630● + MicroLogic 2.3 M**	380	6500	**LC1G500**	**LC1G265**
375	374	75	**NSX630● + MicroLogic 2.3 M**	380	6500	**LC1G630**	**LC1G330**
400	400	75	**NSX630● + MicroLogic 2.3 M**	440	6500	**LC1G630**	**LC1G330**
450	455	75	**NSX630● + MicroLogic 2.3 M**	470	6500	**LC1G630**	**LC1G330**
475	475	75	**NSX630● + MicroLogic 2.3 M**	500	6500	**LC1G630**	**LC1G330**
500	493	75	**NSX630● + MicroLogic 2.3 M**	500	6500	**LC1G630**	**LC1G330**
560	551	75	**NS800● + MicroLogic 5.0**	560	12000	**LC1G800**	**LC1G400**

(1) Product type to be completed by replacing the ● with the breaking performance code:

Rated conditional short-circuit (kA)	NSX100●/ NSX250●/ NSX400●/ NSX630●		NS800●
Breaking performance code	**HB1**	**HB2**	**LB**
690 V	75	100	75

(2) This setting is a general guidance, Ir and Irm should be adjusted according to motor characteristics and conditions of use.
(3) Please refer to diagram page A3/37.

Coordination: Star-Delta with Magnetic circuit breaker + Contactors + Thermal overload relay

1.5 to 90 kW at 400/415 and 440 V: type 2 coordination

Maximum operating rate: LC3D: 30 starts/hour.
Maximum starting time: LC3D: 30 seconds.

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e						Circuit breaker			Star-Delta contactors	Thermal overload relay	
400/415 V			440 V			Reference	Rating	Irm (1)	Reference	Reference	Setting range
P	Ie	Iq	P	Ie	Iq						
kW	A	kA	kW	A	kA		A	A			A
1.5	3.6	130	**1.5**	3.3	130	**GV2L08**	4	51	3 x **LC1D09**	**LRD08**	2.5…4
2.2 **3**	4.9 6.5	130 130	**2.2** **3**	4.5 5.9	130 130	**GV2L10**	6.3	78	3 x **LC1D09**	**LRD10**	4…6
–	–	–	**4**	7.8	20	**GV2L14**	10	138	3 x **LC1D18**	**LRD14**	7…10
4	8.5	130	–	–	–	**GV2L14**	10	138	3 x **LC1D18**	**LRD16**	9…13
5.5	11.5	50	**5.5**	10.5	20	**GV2L16**	14	170	3 x **LC1D25**	**LRD16**	9…13
7.5	15.5	50	**7.5**	14.1	20	**GV2L20**	18	223	3 x **LC1D25**	**LRD21**	12…18
–	–	–	**9**	16.9	20	**GV2L22**	25	327	3 x **LC1D25**	**LRD21**	12…18
9 **11**	18.1 22	50 50	– **11**	– 20	– 20	**GV2L22**	25	327	3 x **LC1D25**	**LRD22**	16…24
15	29	50	**15**	27	50	**GV3L32**	32	448	3 x **LC1D40A** (2)	**LRD332**	23…32
18.5	35	50	–	–	–	**GV3L40**	40	560	2 x **LC1D50A** + **LC1D40A** (2)	**LRD340**	30…40
–	–	–	**18.5**	32	50	**GV3L40**	40	560	2 x **LC1D65A** + **LC1D40A** (2)	**LRD340**	30…40
22	41	50	–	–	–	**GV3L50**	50	700	2 x **LC1D50A** + **LC1D40A** (2)	**LRD350**	37…50
–	–	–	**22**	39	50	**GV3L50**	50	700	2 x **LC1D65A** + **LC1D40A** (2)	**LRD350**	37…50
30	55	50	**30**	51	50	**GV3L65**	65	910	2 x **LC1D65A** + **LC1D40A** (2)	**LRD365**	48…65
–	–	–	**37**	64	50	**GV3L65**	65	910	3 x **LC1D80**	**LRD3359**	48…65
37	66	100	–	–	–	**GV4L80**	80	640	3 x **LC1D80**	**LRD3363**	63…80
–	–	–	**45**	76	70	**GV4L80**	80	800	3 x **LC1D80**	**LRD3363**	63…80
45	80	100	–	–	–	**GV4L115**	115	805	2 x **LC1D115A** + **LC1D40A**	**LRD3357** + **LAD7D3058**	37…50
–	–	–	**55**	88	70	**GV4L115**	115	920	2 x **LC1D115A** + **LC1D40A**	**LRD3359** + **LAD7D3058**	48…65
55	97	100	–	–	–	**GV4L115**	115	920	2 x **LC1D115A** + **LC1D40A**	**LRD3359** + **LAD7D3058**	48…65
55	97	(3)	–	–	–	**NSX100●MA** (3)	150	1200	2 x **LC1D115A** + **LC1D40A**	**LRD3359** + **LAD7D3058**	48…65
–	–	–	**75**	120	(3)	**NSX160●MA** (3)	150	1200	2 x **LC1D115A** + **LC1D50A**	**LR9G115**	28...115
75	132	(3)	**90**	146	(3)	**NSX160●MA** (3)	150	1200	2 x **LC1D115A** + **LC1D50A**	**LR9G115**	28...115

(1) Irm: setting current of the magnetic trip.
*(2) For mounting 3 contactors **LC1D●●A**, Star-Delta starter kit **LAD9SD3** must be ordered separately, see page A1/20.*
(3) Reference to be completed by replacing the ● with the breaking performance code:

Breaking performance Iq (kA)	NSX100●MA		NSX160●MA, NSX250●MA		NSX400●, NSX630●	
400/415 V	36	70	36	70	70	150
440 V	35	65	35	65	65	130
Code	**F**	**H**	**F**	**H**	**H**	**L**

Coordination: Star-Delta with Magnetic circuit breaker + Contactors + Overload relay

Contactor: **Maximum operating rate**: 30 starts/hour - **Maximum starting time**: 30 seconds.
The coordination table is for normal starting conditions (Class 10e/ 20e). For other heavy starting applications with long start times, please contact your technical support.
RE17RMMWS timer to be used for Star-Delta starter application.

90 to 450 kW at 400/415 V: type 2 coordination (with ComPacT NSX/NS circuit breakers and LR9G overload relays)

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Circuit breaker		Contactor Line (KM2) / Delta (KM3) (3)	Contactor Star (KM1) (3)	Electronic thermal overload relay	
400/415 V			Product type (1)	Irm (2)	Product type		Product type	Ir setting (2)
P	Ie	Iq (max)						
kW	A	kA		A				A
90	160	130	NSX250● + MA	1980	LC1G115	LC1D65	LR9G115	92
110	195	130	NSX250● + MA	1980	LC1G150	LC1D80	LR9G225	113
110	195	130	NSX400● + MicroLogic 1.3 M	1920	LC1G150	LC1D80	LR9G225	113
132	230	130	NSX400● + MicroLogic 1.3 M	1920	LC1G150	LC1D80	LR9G225	133
160	280	130	NSX400● + MicroLogic 1.3 M	2560	LC1G185	LC1G115	LR9G225	162
200	350	130	NSX630● + MicroLogic 1.3 M	3000	LC1G225	LC1G150	LR9G225	202
220	380	130	NSX630● + MicroLogic 1.3 M	3500	LC1G265	LC1G150	LR9G500	219
250	430	130	NSX630● + MicroLogic 1.3 M	3500	LC1G265	LC1G150	LR9G500	248
300	500	130	NS800● + MicroLogic 5.0 LR OFF	4800	LC1G330	LC1G185	LR9G500	266
335	575	130	NS800● + MicroLogic 5.0 LR OFF	4800	LC1G400	LC1G225	LR9G500	332
355	610	130	NS800● + MicroLogic 5.0 LR OFF	5600	LC1G400	LC1G225	LR9G500	352
400	690	130	NS800● + MicroLogic 5.0 LR OFF	5600	LC1G500	LC1G265	LR9G500	362
450	695	130	NS800● + MicroLogic 5.0 LR OFF	6400	LC1G500	LC1G265	LR9G500	401

(1) Product type to be completed by replacing the ● with the breaking performance code:

Rated conditional short-circuit (kA)	NSX250●/ NSX400●/ NSX630●					NS800●
Breaking performance code	F	N	H	S	L	L
400/415 V	36	50	70	100	130	150

110 to 355 kW at 440 V: type 2 coordination (with ComPacT NSX/NS circuit breakers and LR9G overload relays)

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Circuit breaker		Contactor Line (KM2) / Delta (KM3) (3)	Contactor Star (KM1) (3)	Electronic thermal overload relay	
440 V			Product type (1)	Irm (2)	Product type		Product type	Ir setting (2)
P	Ie	Iq (max)						
kW	A	kA		A				A
110	177	130	NSX250● + MA	1980	LC1G115	LC1D65	LR9G115	102
132	209	130	NSX250● + MA	1980	LC1G150	LC1D80	LR9G225	121
160	255	130	NSX400● + MicroLogic 1.3 M	2240	LC1G185	LC1D95	LR9G225	147
200	318	130	NSX400● + MicroLogic 1.3 M	2560	LC1G225	LC1G115	LR9G225	184
220	343	130	NSX630● + MicroLogic 1.3 M	3000	LC1G225	LC1G150	LR9G225	198
250	390	130	NSX630● + MicroLogic 1.3 M	3500	LC1G265	LC1G150	LR9G500	225
300	466	130	NSX630● + MicroLogic 1.3 M	4000	LC1G330	LC1G185	LR9G500	269
335	521	130	NS800● + MicroLogic 5.0 LR OFF	4800	LC1G330	LC1G185	LR9G500	301
355	554	130	NS800● + MicroLogic 5.0 LR OFF	4800	LC1G400	LC1G225	LR9G500	320

(1) Product type to be completed by replacing the ● with the breaking performance code:

Rated conditional short-circuit (kA)	NSX250●					NSX400●/ NSX630●				NS800●
Breaking performance code	F	N	H	S	L	F	N	S	L	L
440 V	35	50	65	100	130	30	42	100	130	130

(2) This setting is a general guidance, Ir and Irm should be adjusted according to motor characteristics and conditions of use.
(3) Please refer to diagram page A3/37.

Coordination: Star-Delta with Magnetic circuit breaker + Contactors + Overload relay

Contactor: **Maximum operating rate**: 30 starts/hour - **Maximum starting time**: 30 seconds.
The coordination table is for normal starting conditions (Class 10e/ 20e). For other heavy starting applications with long start times, please contact your technical support.
RE17RMMWS timer to be used for Star-Delta starter application.

132 to 425 kW at 500 V: type 2 coordination (with ComPacT NSX/NS circuit breakers and LR9G overload relays)

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Circuit breaker		Contactor Line (KM2) / Delta (KM3) [3]	Contactor Star (KM1) [3]	Electronic thermal overload relay	
500 V			Product type [1]	Irm [2]	Product type		Product type	Ir setting [2]
P	Ie	Iq (max)						
kW	A	kA		A				A
132	184	70	NSX400● + MicroLogic 1.3 M	1600	LC1G115	LC1D65	LR9G225	106
160	224	70	NSX400● + MicroLogic 1.3 M	1920	LC1G150	LC1D80	LR9G225	129
200	280	70	NSX400● + MicroLogic 1.3 M	2560	LC1G185	LC1G115	LR9G225	162
250	344	70	NSX630● + MicroLogic 1.3 M	3000	LC1G225	LC1G150	LR9G225	199
295	405	70	NSX630● + MicroLogic 1.3 M	3500	LC1G265	LC1G150	LR9G500	234
375	516	70	NS800● + MicroLogic 5.0	4800	LC1G330	LC1G185	LR9G500	298
425	584	70	NS800● + MicroLogic 5.0	4800	LC1G400	LC1G185	LR9G500	337

(1) Product type to be completed by replacing the ● with the breaking performance code:

Rated conditional short-circuit (kA)	NSX400●/ NSX630●					NS800●
Breaking performance code	F	N	H	S	L	L
500 V	25	30	50	65	70	100

(2) This setting is a general guidance, Ir and Irm should be adjusted according to motor characteristics and conditions of use.
(3) Please refer to diagram page A3/37.

160 to 500 kW at 690 V: type 2 coordination (with ComPact NSX circuit breakers and LR9G overload relays)

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Circuit breaker		Contactor Line (KM2) / Delta (KM3)	Contactor Star (KM1) [3]	Thermal overload relay	
690 V			Product type [1]	Irm [2]	Product type		Product type	Ir setting [2]
P	Ie	Iq (max)						
kW	A	kA		A				A
160	162	75	NSX250● + MA	3080	LC1G115	LC1D65	LR9G115	94
200	203	75	NSX250● + MA	3080	LC1G150	LC1D80	LR9G225	117
220	223	75	NSX400● + MicroLogic 1.3 M	4800	LC1G150	LC1D80	LR9G225	129
250	250	75	NSX400● + MicroLogic 1.3 M	4800	LC1G185	LC1G115	LR9G225	144
315	313	75	NSX630● + MicroLogic 1.3 M	6500	LC1G225	LC1G115	LR9G225	181
335	335	75	NSX630● + MicroLogic 1.3 M	6500	LC1G225	LC1G150	LR9G225	193
355	354	75	NSX630● + MicroLogic 1.3 M	6500	LC1G225	LC1G150	LR9G225	204
375	374	75	NSX630● + MicroLogic 1.3 M	6500	LC1G265	LC1G150	LR9G225	216
400	400	75	NSX630● + MicroLogic 1.3 M	6500	LC1G265	LC1G150	LR9G500	231
450	455	75	NSX630● + MicroLogic 1.3 M	6500	LC1G330	LC1G185	LR9G500	263
475	475	75	NSX630● + MicroLogic 1.3 M	6500	LC1G330	LC1G185	LR9G500	274
500	493	75	NSX630● + MicroLogic 1.3 M	6500	LC1G330	LC1G185	LR9G500	285

(1) Product type to be completed by replacing the ● with the breaking performance code:

Rated conditional short-circuit (kA)	NSX100●/ NSX250●/ NSX400●/ NSX630●	
Breaking performance code	HB1	HB2
690 V	75	100

(2) This setting is a general guidance, Ir and Irm should be adjusted according to motor characteristics and conditions of use.
(3) Please refer to diagram page A3/37.

Coordination: fuses (NFC, DIN type aM) + contactor + TeSys T + current transformers

0.37 to 75 kW at 400/415 V: type 2 coordination

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e 400/415 V		Switch-disconnector	aM fuses		Contactor	TeSys T controller	External current transformer
P	Ie	Reference (1)	Size	Rating	Reference (2)	Reference	Reference
kW	A			A			
0.37	1.1	GS1DD	10 x 38	2	LC1D09	LTMR08●●	–
0.55	1.5	GS1DD	10 x 38	2	LC1D09	LTMR08●●	–
0.75	1.9	GS1DD	10 x 38	4	LC1D09	LTMR08●●	–
1.1	2.7	GS1DD	10 x 38	4	LC1D09	LTMR08●●	–
1.5	3.6	GS1DD	10 x 38	4	LC1D09	LTMR08●●	–
2.2	4.9	GS1DD	10 x 38	6	LC1D09	LTMR08●●	–
3	6.5	GS1DD	10 x 38	8	LC1D09	LTMR27●●	–
4	8.5	GS1DD	10 x 38	10	LC1D09	LTMR27●●	–
5.5	11.5	GS1DD	10 x 38	16	LC1D12	LTMR27●●	–
7.5	15.5	GS1DD	10 x 38	16	LC1D25	LTMR27●●	–
10	19	GS●F	14 x 51	25	LC1D25	LTMR27●●	–
11	22	GS●F	14 x 51	25	LC1D25	LTMR27●●	–
15	29	GS●F	14 x 51	32	LC1D32	LTMR100●●	–
18.5	35	GS●F	14 x 51	40	LC1D40A	LTMR100●●	–
22	41	GS●J	22 x 58	50	LC1D50A	LTMR100●●	–
30	55	GS●J	22 x 58	80	LC1D65A	LTMR100●●	–
37	66	GS●J	22 x 58	100	LC1D80 (3)	LTMR100●●	–
45	80	GS●J	22 x 58	100	LC1D95 (3)	LTMR100●●	–
55	97	GS●KK	T00	125	LC1D115A	LTMR08●●	LT6CT2001
75	132	GS●L	T0	160	LC1D150A	LTMR08●●	LT6CT2001

(1) GS●: GS1 for direct operator, GS2 for external operator.
(2) For reversing operation, replace the prefix LC1 with LC2.
(3) Only electromechanical coils are available for this contactor rating.

90 to 355 kW at 400 V: type 2 coordination

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Switch-disconnector	aM fuses		Contactor	TeSys T controller		External current transformer
400 V			Product type	Size	Rating	Product type	Product type (1)	Ir setting (2)	Reference
P	Ie	Iq							
kW	A	kA			A			A	
90	160	80	GS●N	1	200	LC1G185	LTMR08●●●	160	LUTC2001
110	195	80	GS●N	1	250	LC1G225	LTMR08●●●	195	LUTC4001
132	230	80	GS●QQ	2	315	LC1G265	LTMR08●●●	230	LUTC4001
160	280	80	GS●QQ	2	400	LC1G330	LTMR08●●●	280	LUTC4001
200	350	80	GS2S	3	500	LC1G400	LTMR08●●●	350	LUTC8001
250	430	80	GS2S	3	500	LC1G500	LTMR0●●●	430	LUTC8001
315	540	80	GS2S	3	630	LC1G630	LTMR08●●●	540	LUTC8001
355	610	80	GS2V	4	800	LC1G630	LTMR08●●●	610	LUTC8001

(1) Please refer to page C1/2 of TeSys Catalog, ref. MKTED210011EN, for selecting the complete reference for TeSys T *motor management controller.*
(2) This setting is a general guidance, Ir should be adjusted according to motor characteristics and conditions of use.

Coordination: fuses (NFC, DIN type aM) + contactor + TeSys T + current transformers

0.37 to 75 kW at 690 V: type 2 coordination

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e		Switch-disconnector (1)	aM fuses		Contactor	TeSys T controller	External current tranformer
P	Ie	Reference	Size	Rating	Reference	Reference	Reference
kW	A			A			
0.37	0.64	GS●F	14 x 51	1	LC1D09	LTMR08●●	–
0.55	0.87	GS●F	14 x 51	2	LC1D09	LTMR08●●	–
0.75	1.1	GS●F	14 x 51	2	LC1D09	LTMR08●●	–
1.1	1.6	GS●F	14 x 51	2	LC1D09	LTMR08●●	–
1.5	2.2	GS●F	14 x 51	4	LC1D09	LTMR08●●	–
2.2	2.9	GS●F	14 x 51	4	LC1D09	LTMR08●●	–
3	4	GS●F	14 x 51	6	LC1D09	LTMR08●●	–
4	5	GS●F	14 x 51	6	LC1D09	LTMR08●●	–
5.5	7	GS●F	14 x 51	8	LC1D25	LTMR08●●	–
7.5	9.3	GS●F	14 x 51	10	LC1D25	LTMR27●●	–
11	13	GS●F	14 x 51	16	LC1D25	LTMR27●●	–
15	16.5	GS●G	T000	20	LC1D32	LTMR27●●	–
18.5	21	GS●G	T000	25	LC1D32	LTMR27●●	–
22	25	GS●G	T000	32	LC1D40A	LTMR27●●	–
30	33	GS●G	T000	40	LC1D50A	LTMR100●●	–
37	40	GS●J	22 x 58	50	LC1D65A	LTMR100●●	–
45	49	GS●J	22 x 58	63	LC1D80 (2)	LTMR100●●	–
55	58	GS●J	22 x 58	80	LC1D115A	LTMR100●●	–
75	77	GS●KK	T00	100	LC1D115A	LTMR100●●	–

(1) GS●: GS1 for direct operator, GS2 for external operator.
(2) Only electromechanical coils are available for this contactor rating.

110 to 400 kW at 690 V: type 2 coordination

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Switch-disconnector	aM fuses		Contactor	TeSys T controller		External current transformer
690 V			Product type	Size	Rating	Product type	Product type (1)	Ir setting (2)	Reference
P	Ie	Iq							
kW	A	kA			A			A	
110	113	80	GS●KK	0	125	LC1G185	LTMR08●●●	113	LUTC2001
132	140	80	GS●L	0	160	LC1G265	LTMR08●●●	134	LUTC2001
160	165	80	GS●N	1	160	LC1G265	LTMR08●●●	162	LUTC2001
200	203	80	GS●N	1	200	LC1G330	LTMR08●●●	203	LUTC2001
220	233	80	GS●QQ	2	250	LC1G400	LTMR08●●●	224	LUTC4001
250	253	80	GS●QQ	2	250	LC1G400	LTMR08●●●	250	LUTC4001
290	292	80	GS●QQ	2	315	LC1G500	LTMR08●●●	292	LUTC4001
315	321	80	GS●QQ	2	400	LC1G500	LTMR08●●●	313	LUTC4001
355	354	80	GS2S	3	500	LC1G630	LTMR08●●●	354	LUTC4001
400	390	80	GS2S	3	630	LC1G630	LTMR08●●●	400	LUTC8001

(1) Please refer to page C1/2 of TeSys Catalog, ref. MKTED210011EN, for selecting the complete reference TeSys T *motor management controller.*
(2) This setting is a general guidance, Ir and Irm should be adjusted according to motor characteristics and conditions of use.

Coordination: magnetic circuit breaker + contactor + TeSys T + current transformers

0.06 to 75 kW at 400/415 V: type 2 coordination

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e 400/415 V			Limiter block	Circuit breaker	Contactor	TeSys T controller	External current transformer
P	Ie	Iq	Reference	Reference	Reference	Reference	Reference
kW	A	kA					
0.06	0.2	130	–	**GV2L03**	**LC1D09**	**LTMR08●●**	–
0.09	0.3	130	–	**GV2L03**	**LC1D09**	**LTMR08●●**	–
0.12	0.44	130	–	**GV2L04**	**LC1D09**	**LTMR08●●**	–
0.18	0.6	130	–	**GV2L05**	**LC1D09**	**LTMR08●●**	–
0.25	0.85	130	–	**GV2L05**	**LC1D09**	**LTMR08●●**	–
0.37	1.1	130	–	**GV2L06**	**LC1D09**	**LTMR08●●**	–
0.4	1.1	130	–	**GV2L07**	**LC1D09**	**LTMR08●●**	–
0.55	1.5	130	–	**GV2L06**	**LC1D09**	**LTMR08●●**	–
0.6	1.5	130	–	**GV2L06**	**LC1D09**	**LTMR08●●**	–
0.75	1.9	130	–	**GV2L07**	**LC1D09**	**LTMR08●●**	–
0.8	1.9	130	–	**GV2L07**	**LC1D09**	**LTMR08●●**	–
1.1	2.7	130	–	**GV2L08**	**LC1D18**	**LTMR08●●**	–
1.5	3.6	130	–	**GV2L08**	**LC1D18**	**LTMR08●●**	–
2.2	4.9	130	–	**GV2L10**	**LC1D18**	**LTMR08●●**	–
3	6.5	130	–	**GV2L14**	**LC1D18**	**LTMR08●●**	–
4	8.5	130	–	**GV2L14**	**LC1D18**	**LTMR27●●**	–
5.5	11.5	130	–	**GV2L16**	**LC1D25**	**LTMR27●●**	–
7.5	15.5	50	–	**GV2L20**	**LC1D25**	**LTMR27●●**	–
9	18.1	50	–	**GV2L22**	**LC1D25**	**LTMR27●●**	–
11	22	50	–	**GV2L22**	**LC1D25**	**LTMR27●●**	–
15	29	50	–	**GV3L32**	**LC1D40A**	**LTMR100●●**	–
7.5	15.5	85	**GV1L3**	**GV2L20**	**LC1D25**	**LTMR27●●**	–
9	18.1	85	**GV1L3**	**GV2L22**	**LC1D25**	**LTMR27●●**	–
11	22	85	**GV1L3**	**GV2L22**	**LC1D25**	**LTMR27●●**	–
15	29	85	**GV1L3**	**GV2L32**	**LC1D40A**	**LTMR100●●**	–
18.5	35	50	–	**GV3L40**	**LC1D50A**	**LTMR100●●**	–
22	41	50	–	**GV3L50**	**LC1D50A**	**LTMR100●●**	–
30	55	50	–	**GV3L65**	**LC1D65A**	**LTMR100●●**	–
37	66	70	–	**GV4LE80S**	**LC1D80** (1)	**LTMR100●●**	–
45	80	70	–	**NSX100HMA**	**LC1D115A**	**LTMR100●●**	–

(1) Only electromechanical coils are available for this contactor rating.

Coordination: magnetic circuit breaker + contactor + TeSys T + current transformers

0.06 to 75 kW at 400/415 V: type 2 coordination

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e 400/415 V			Circuit breaker	Contactor	TeSys T controller	External current transformer
P	Ie	Iq	Reference	Reference	Reference	Reference
kW	A	kA				
55	97	50	**NSX160NMA**	**LC1D115A**	**LTMR08●●**	**LT6CT2001**
55	97	70	**NSX160HMA**	**LC1D115A**	**LTMR08●●**	**LT6CT2001**
75	132	50	**NSX250NMA**	**LC1D150A**	**LTMR08●●**	**LT6CT2001**
75	132	70	**NSX250HMA**	**LC1D150A**	**LTMR08●●**	**LT6CT2001**

90 to 335 kW at 400 V: type 2 coordination

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e			Circuit breaker		Contactor	TeSys T controller		External current transformer
400 V			Product type (1)	Irm (2)	Product type	Product type (3)	Ir setting (2)	Reference
P	Ie	Iq						
kW	A	kA		A			A	
90	160	130	**NSX250● + MA**	2200	**LC1G185**	**LTMR08●●**	160	**LUTC2001**
110	195	130	**NSX400● + MicroLogic 1.3 M**	2640	**LC1G225**	**LTMR08●●**	195	**LUTC2001**
132	230	130	**NSX400● + MicroLogic 1.3 M**	3200	**LC1G265**	**LTMR08●●**	230	**LUTC4001**
160	280	130	**NSX630● + MicroLogic 1.3 M**	3840	**LC1G330**	**LTMR08●●**	280	**LUTC4001**
200	350	130	**NSX630● + MicroLogic 1.3 M**	5000	**LC1G400**	**LTMR08●●**	350	**LUTC4001**
220	380	130	**NSX630● + MicroLogic 1.3 M**	5500	**LC1G500**	**LTMR08●●**	388	**LUTC4001**
250	430	130	**NS800L● + MicroLogic 5.0 LR OFF**	6000	**LC1G500**	**LTMR08●●**	430	**LUTC8001**
300	460	130	**NS800L● + MicroLogic 5.0 LR OFF**	8800	**LC1G630**	**LTMR08●●**	460	**LUTC8001**
335	575	130	**NS800L● + MicroLogic 5.0 LR OFF**	9600	**LC1G630**	**LTMR08●●**	575	**LUTC8001**

(1) Product type to be completed by replacing the ● with the breaking performance code:

Rated conditional short-circuit (kA)	NSX250●/ NSX400●/ NSX630●					NS800●
Breaking performance code	F	N	H	S	L	L
400 V	36	50	70	100	130	150

(2) This setting is a general guidance, Ir and Irm should be adjusted according to motor characteristics and conditions of use.
(3) Please refer to page C1/2 of TeSys Catalog, ref. MKTED210011EN, for selecting the complete reference for TeSys T *motor management controller.*

Coordination: magnetic circuit breaker + contactor + TeSys T + current transformers

½ to 20 HP at 480 V - 3P

Standard power ratings 480 V			Limiter block	Circuit breaker	Contactor	TeSys T controller	External current transformer
P	Ie	Iq	Reference	Reference	Reference	Reference	Reference
HP	A	kA					
–	0.49	100	–	GV2L04	LC1D09	LTMR08●●	–
–	0.64	100	–	GV2L05	LC1D09	LTMR08●●	–
–	0.87	100	–	GV2L05	LC1D09	LTMR08●●	–
0.5	1.1	100	–	GV2L06	LC1D09	LTMR08●●	–
0.75	1.6	100	–	GV2L06	LC1D25	LTMR08●●	–
1	2.1	65	GV1L3	GV2L07	LC1D25	LTMR08●●	–
1.5	3	65	GV1L3	GV2L08	LC1D25	LTMR08●●	–
2	3.4	65	GV1L3	GV2L08	LC1D25	LTMR08●●	–
3	4.8	65	GV1L3	GV2L10	LC1D25	LTMR08●●	–
5	7.6	65	GV1L3	GV2L14	LC1D25	LTMR08●●	–
7.5	11	65	GV1L3	GV2L16	LC1D25	LTMR27●●	–
10	14	65	GV1L3	GV2L16	LC1D25	LTMR27●●	–
10	14	100	LA9LB920	GV2L16	LC1D25	LTMR27●●	–
15	21	65	GV1L3	GV2L22	LC1D32	LTMR27●●	–
15	21	100	LA9LB920	GV2L22	LC1D32	LTMR27●●	–
20	27	65	GV1L3	GV2L32	LC1D40A	LTMR100●●	–
20	27	100	LA9LB920	GV2L32	LC1D40A	LTMR100●●	–

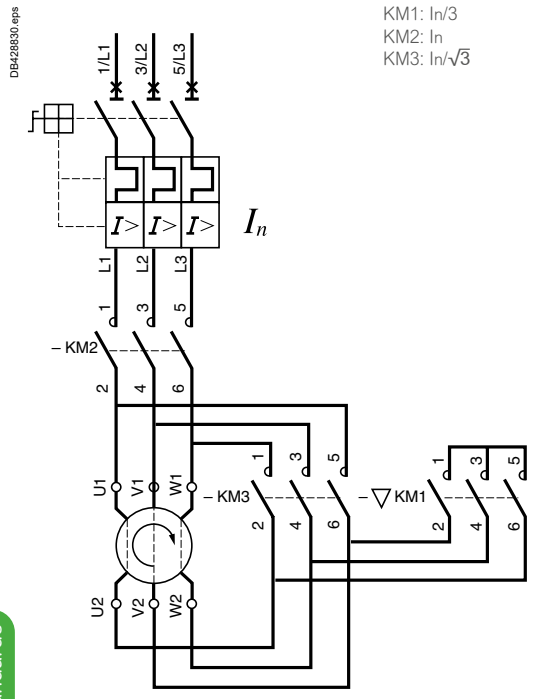
0.25 to 22 kW at 690 V: type 2 coordination

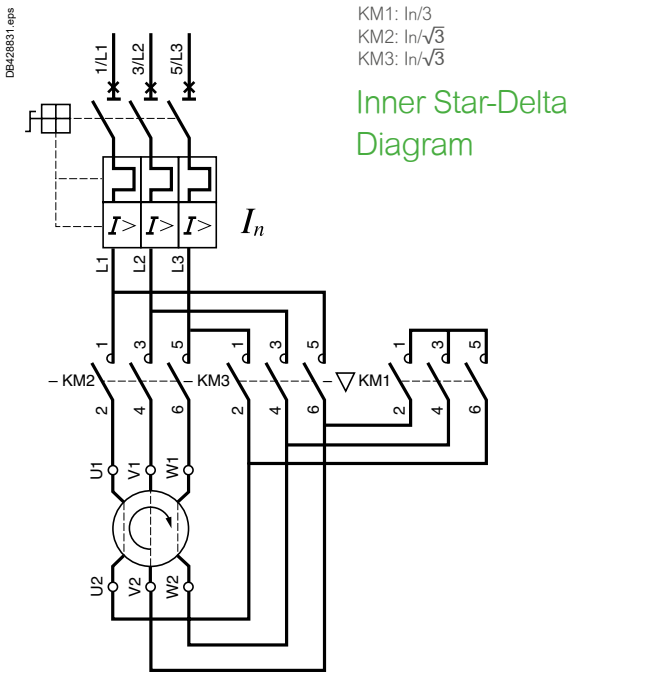
Standard power ratings of 3-phase motors 50/60 Hz in category AC-3e 690 V			Limiter block	Circuit breaker	Contactor	TeSys T controller	External current transformer
P	Ie	Iq	Reference	Reference	Reference	Reference	Reference
kW	A	kA					
0.25	0.49	100	–	GV2L04	LC1D09	LTMR08●●	–
0.37	0.64	100	–	GV2L05	LC1D09	LTMR08●●	–
0.55	0.87	100	–	GV2L05	LC1D09	LTMR08●●	–
0.75	1.1	100	–	GV2L06	LC1D09	LTMR08●●	–
1.1	1.6	100	–	GV2L06	LC1D25	LTMR08●●	–
1.5	2.1	65	LA9LB920	GV2L07	LC1D25	LTMR08●●	–
2.2	2.8	65	LA9LB920	GV2L08	LC1D25	LTMR08●●	–
3	3.8	65	LA9LB920	GV2L08	LC1D25	LTMR08●●	–
4	4.9	65	LA9LB920	GV2L10	LC1D25	LTMR08●●	–
5.5	6.7	65	LA9LB920	GV2L14	LC1D25	LTMR08●●	–
7.5	8.9	65	LA9LB920	GV2L14	LC1D25	LTMR27●●	–
9	10.6	65	LA9LB920	GV2L16	LC1D25	LTMR27●●	–
11	12.8	65	LA9LB920	GV2L16	LC1D25	LTMR27●●	–
15	17	65	LA9LB920	GV2L20	LC1D32	LTMR27●●	–
18.5	21	65	LA9LB920	GV2L22	LC1D32	LTMR27●●	–
22	24	65	LA9LB920	GV2L32	LC1D40A	LTMR100●●	–

Coordination: Star-Delta motor starter - Common circuit diagrams

TeSys Deca Advanced Star-Delta motor starter 'Power' circuit diagram (3)

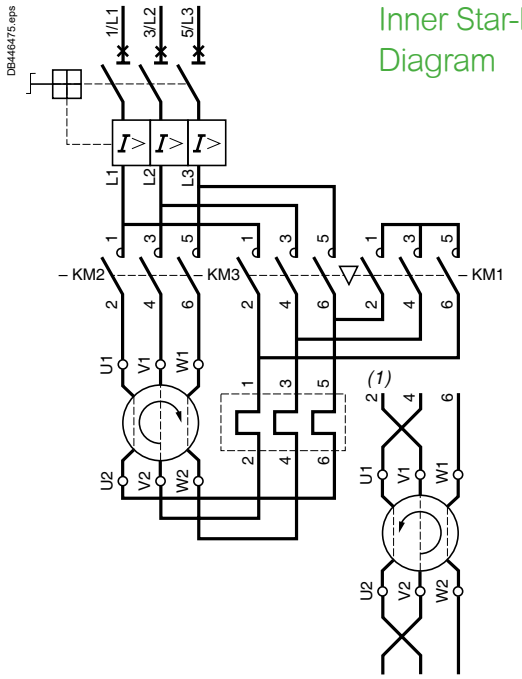
Thermal magnetic circuit breaker + contactors



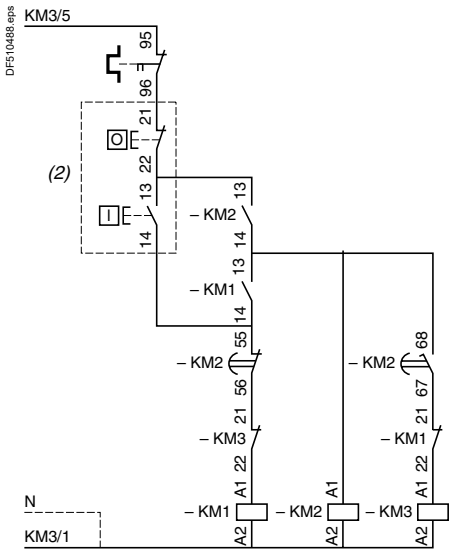


TeSys Deca Advanced Star-Delta motor starter 'Power' circuit diagram

Magnetic circuit breaker + contactors + overload relay



Star-Delta motor starter 'Control' circuit diagram

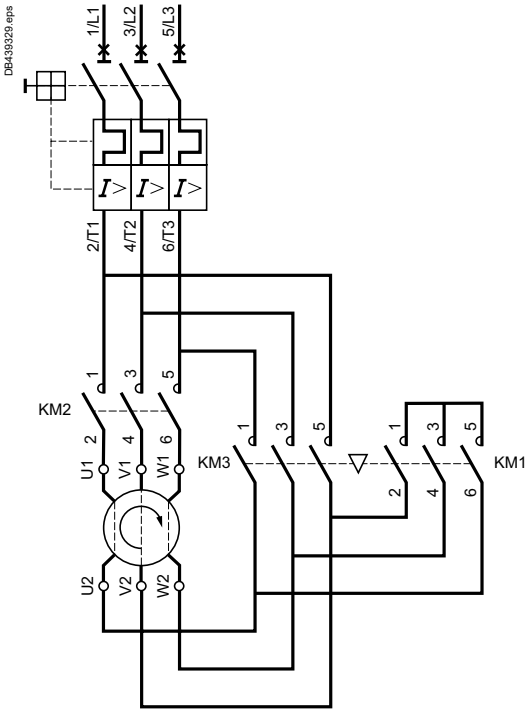


(1) Recommended cabling for reversal of motor rotation (standard motor, viewed from shaft end).
(2) Remote control.
(3) Star-Delta coordination tables of LC1D115A - D150A contactors are based on inner Star-Delta diagram.

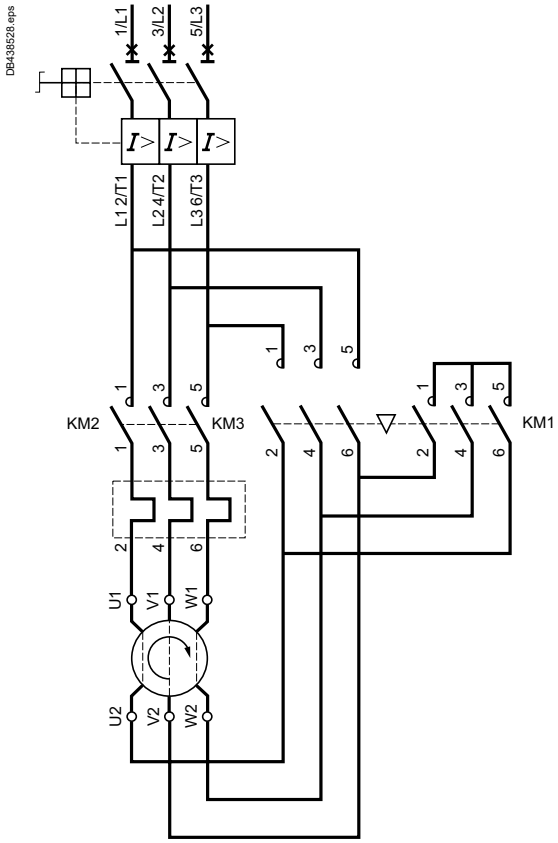
Coordination: Star-Delta motor starter - Common circuit diagrams

TeSys Giga Star-Delta motor starter 'Power' circuit diagram

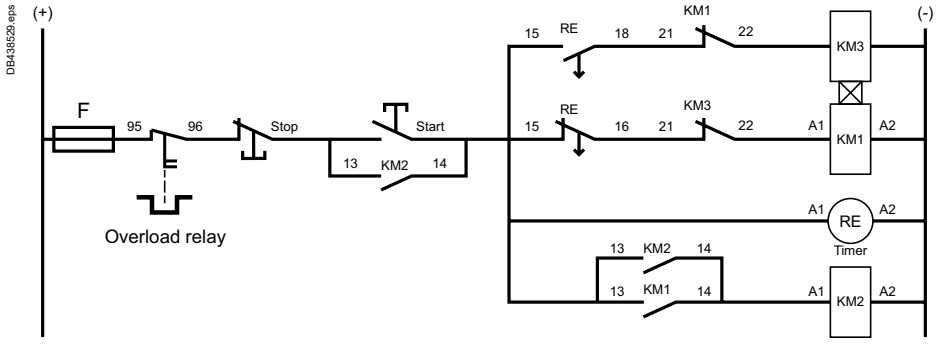
Thermal magnetic circuit breaker + contactors



Magnetic circuit breaker + contactors + overload relay



TeSys Giga Star-Delta motor starter 'Control' circuit diagram



TeSys Giga recommended timing relay (RE): Zelio Timer ref. **RE17RMMWS** (12...240 V AC/DC 50/60 Hz – 8 A AC/DC contacts).

Resistive load protection and control
Coordination: Fuses (NFC, DIN type gG) + Contactors

275 to 1050 A up to 690 V: type 2 coordination (with NFC, DIN, type gG fuses)

Current ratings of 3-phase loads 50/60 Hz in category AC-1		Switch-disconnector	gG fuse		Contactor
Up to 690 V, temperature ≤ 40 °C		Product type	Size	Rating	Product type
Ie	Iq (max)				
A	kA			A	
160	80	**GS•N**	1	200	**LC1D115A**
200	80	**GS•N**	1	250	**LC1D150A**
250	80	**GS•QQ**	2	315	**LC1D150A**
250	80	**GS•QQ**	2	315	**LC1G115**
275	80	**GS•QQ**	2	315	**LC1G150**
305	80	**GS•QQ**	2	315	**LC1G185**
330	80	**GS•QQ**	2	400	**LC1G225**
385	80	**GS•QQ**	2	400	**LC1G265**
440	80	**GS•S**	3	500	**LC1G330**
550	80	**GS•S**	3	630	**LC1G400**
700	80	**GS•V**	4	800	**LC1G500**
1000	80	**GS•V**	4	1000	**LC1G630**
1050	80	**GS•V**	4	1250	**LC1G800**

275 to 1000 A up to 690 V: type 2 coordination (with LC1G and ComPacT NSX or NS circuit breakers)

Current ratings of 3-phase loads 50/60 Hz in category AC-1		Circuit breaker		Contactor
Up to 690 V, temperature ≤ 40 °C		Product type (1)	In	Product type
Ie	Iq (max)			
A	kA		A	
160	100	NSX160● + MicroLogic 2.2	160	LC1D115A
200	100	NSX250● + MicroLogic 2.2	250	LC1D150A
250	100	NSX250● + MicroLogic 2.2	250	LC1D150A
275	100	NSX400● + MicroLogic 2.3	400	LC1G150
305	100	NSX400● + MicroLogic 2.3	400	LC1G185
330	100	NSX400● + MicroLogic 2.3	400	LC1G225
385	100	NSX400● + MicroLogic 2.3	400	LC1G265
440	100	NSX630● + MicroLogic 2.3	630	LC1G330
550	100	NSX630● + MicroLogic 2.3	630	LC1G400
700	75	NS800● + MicroLogic 5.0	800	LC1G500
1000	100 (2)	NS1000● + MicroLogic 5.0	1000	LC1G630

(1) Product type to be completed by replacing the ● with the breaking performance code:

Rated conditional short-circuit (kA)	NSX400●/ NSX630●								NS800●/NS1000●	
Breaking performance code	F	N	H	S	L	R	HB1	HB2	L	LB
400 V	36	50	70	100	150	200	-	-	150	200
440 V	30	42	65	90	130	200	-	-	130	200
500 V	25	30	50	65	70	80	85	100	100	100
690 V	10	10	20	25	35	45	75	100	-	75

(2) Up to 500 V AC.

Operational current and power conforming to IEC (θ ≤ 60 °C) - AC-3

Contactor size			LC1 D09	LC1 D12	LC1 D18	LC1 D25	LC1 D32	LC1 D38	LC1 D40A	LC1 D50A	LC1 D65A	LC1 D80A
Maximum operational current in AC-3	≤ 440 V	**A**	9	12	18	25	32	38	40	50	65	66
Rated operational power P (standard motor power ratings)	220/240 V (1)	**kW**	2.2	3	4	5.5	7.5	9	11	15	18.5	22
	380/400 V (2)	**kW**	4	5.5	7.5	11	15	18.5	18.5	22	30	37
	415 V	**kW**	4	5.5	9	11	15	18.5	22	25	37	37
	440 V	**kW**	4	5.5	9	11	15	18.5	22	30	37	37
	500 V	**kW**	5.5	7.5	10	15	18.5	18.5	22	30	37	37
	660/690 V (3)	**kW**	5.5	7.5	10	15	18.5	18.5	30	33	37	37
	1000 V	**kW**	–	–	–	–	–	–	–	–	–	–

Operational current and power conforming to IEC (θ ≤ 60 °C) - AC-3e

Contactor size			LC1 D09	LC1 D12	LC1 D18	LC1 D25	LC1 D32	LC1 D38	LC1 D40A	LC1 D50A	LC1 D65A	LC1 D80A
Maximum operational current in AC-3e	≤ 440 V	**A**	9	12	18	25	32	38	40	50	65	66
Rated operational power P (standard motor power ratings)	220/240 V (1)	**kW**	2.2	3	4	5.5	7.5	9	11	15	18.5	22
	380/400 V (2)	**kW**	4	5.5	7.5	11	15	18.5	18.5	22	30	37
	415 V	**kW**	4	5.5	9	11	15	18.5	22	25	37	37
	440 V	**kW**	4	5.5	9	11	15	18.5	22	30	37	37
	500 V	**kW**	5.5	7.5	10	15	18.5	18.5	22	30	37	37
	660/690 V (3)	**kW**	5.5	7.5	10	15	18.5	18.5	30	33	37	37
	1000 V	**kW**	–	–	–	–	–	–	–	–	–	–

Maximum operating rate in operating cycles/hour (4)

On-load factor	Operational power	LC1 D09	LC1 D12	LC1 D18	LC1 D25	LC1 D32	LC1 D38	LC1 D40A	LC1 D50A	LC1 D65A	LC1 D80A
≤ 85 %	P	1200	1200	1200	1200	1000	1000	1000	1000	1000	1000
	0.5 P	3000	3000	2500	2500	2500	2500	2500	2500	2500	2500
≤ 25 %	P	1800	1800	1800	1800	1200	1200	1200	1200	1200	1200

Operational current and power conforming to UL, CSA (θ ≤ 60 °C)

Contactor size			LC1 D09	LC1 D12	LC1 D18	LC1 D25	LC1 D32	LC1 D38	LC1 D40A	LC1 D50A	LC1 D65A	LC1 D80A
Maximum operational current in AC-3	≤ 440 V	**A**	9	12	18	25	32	–	40	50	65	65
Rated operational power P (standard motor power ratings 60 Hz)	200/208 V	**HP**	2	3	5	7.5	10	–	10	15	20	20
	230/240 V	**HP**	2	3	5	7.5	10	–	10	15	20	20
	460/480 V	**HP**	5	7.5	10	15	20	–	30	40	40	40
	575/600 V	**HP**	7.5	10	15	20	25	–	30	40	50	50

(1) 230 V for LC1G115 to LC1G800 contactors.
(2) 400 V for LC1G115 to LC1G800 contactors.
(3) 690 V for LC1K/LP1K and LC1G115 to LC1G800 contactors.
(4) Depending on the operational power and the on-load factor (θ ≤ 60 °C).

LC1 D80	LC1 D95	LC1 D115A	LC1 D150A	LC1 G115	LC1 G150	LC1 G185	LC1 G225	LC1 G265	LC1 G330	LC1 G400	LC1 G500	LC1 G630	LC1 G800
80	95	115	150	115	150	185	225	265	330	400	500	630	800
22	25	30	40	30	37	55	55	75	90	110	160	200	250
37	45	55	75	55	75	90	110	132	160	200	250	335	450
45	45	59	80	55	75	90	110	132	160	200	250	375	450
45	45	59	90	75	90	110	132	160	200	250	315	400	450
55	55	75	90	75	90	110	132	160	200	250	355	400	500
45	45	80	100	75	90	110	160	200	220	315	355	500	560
–	–	–	–	–	75	75	132	160	185	220	335	450	450

LC1 D80	LC1 D95	LC1 D115A	LC1 D150A	LC1 G115	LC1 G150	LC1 G185	LC1 G225	LC1 G265	LC1 G330	LC1 G400	LC1 G500	LC1 G630	LC1 G800
80	95	115	150	115	145	177	209	255	294	391	437	555	587
22	25	30	40	30	37	55	55	75	90	110	147	180	200
37	45	55	75	55	75	90	110	132	160	200	250	315	335
45	45	59	80	55	75	90	110	132	160	200	250	335	355
45	45	59	90	75	90	110	132	160	185	250	280	355	375
55	55	75	90	75	90	110	132	160	200	250	315	375	425
45	45	80	100	75	90	110	160	200	220	315	355	500	560
–	–	–	–	–	75	75	132	160	185	220	335	450	450

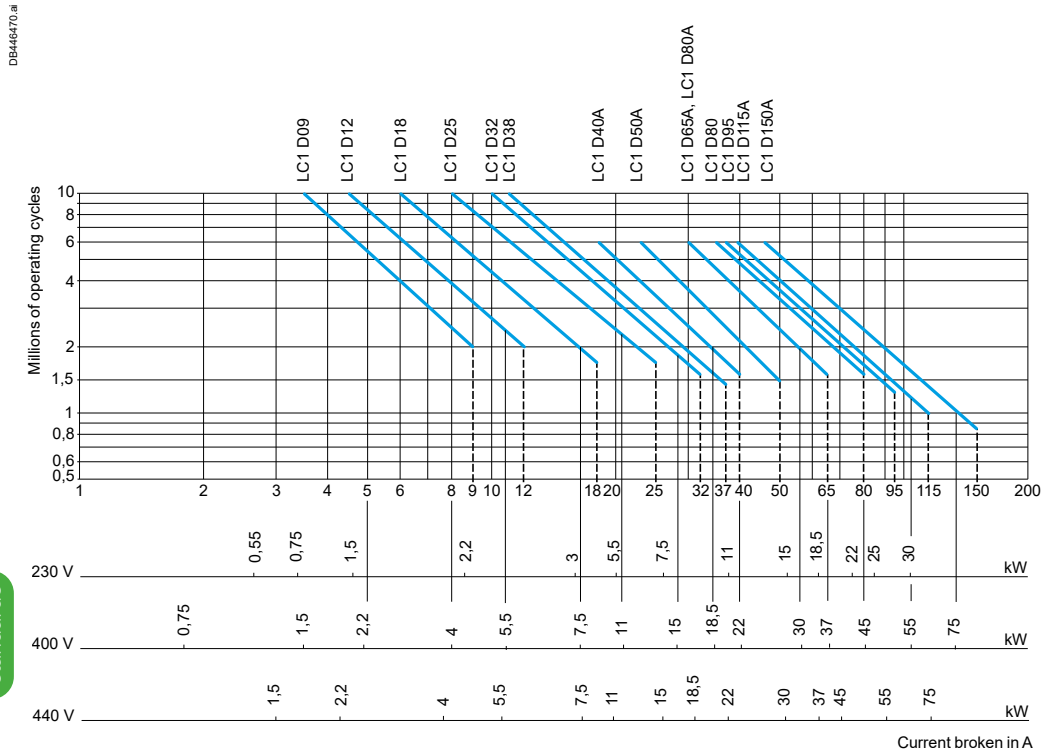
LC1 D80	LC1 D95	LC1 D115A	LC1 D150A	LC1 G115	LC1 G150	LC1 G185	LC1 G225	LC1 G265	LC1 G330	LC1 G400	LC1 G500	LC1 G630	LC1 G800
750	750	750	750	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
2000	2000	2000	1200	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
1200	1200	1200	1200	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)

LC1 D80	LC1 D95	LC1 D115A	LC1 D150A	LC1 G115	LC1 G150	LC1 G185	LC1 G225	LC1 G265	LC1 G330	LC1 G400	LC1 G500	LC1 G630	LC1 G800
80	95	115	150	115	150	185	225	265	330	400	500	630	800
30	30	30	40	30	40	50	60	75	100	125	150	250	300
30	30	40	50	40	50	60	75	100	125	150	200	300	350
60	60	75	100	75	100	125	150	200	250	300	400	600	700
60	60	100	125	100	125	150	150	200	300	400	450	700	800

(5) Other values: please contact your Local Schneider Electric Technical Support.

Selection according to required electrical durability, in category AC-3, AC-3e (Ue ≤ 440 V)

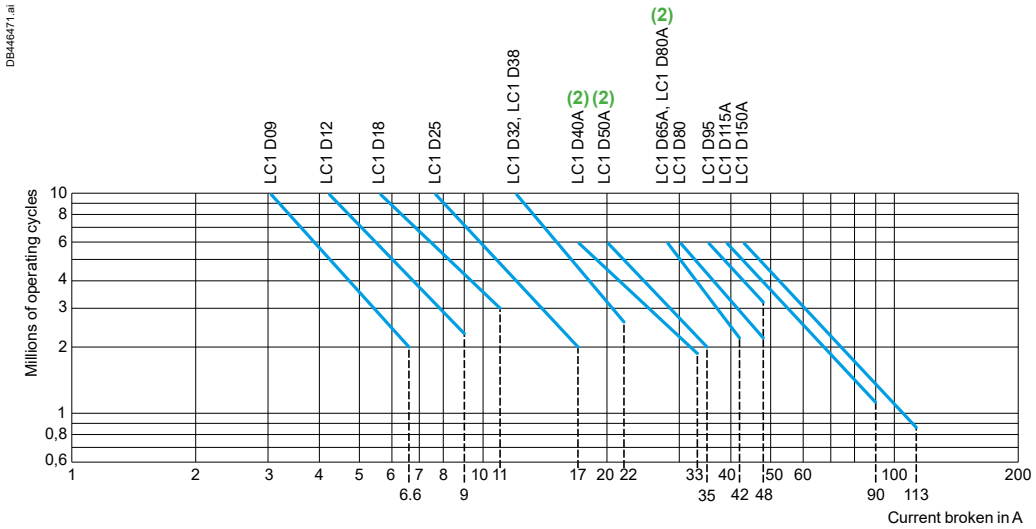
Control of 3-phase asynchronous squirrel cage motors with breaking whilst running.
The current broken (Ic) in category AC-3 is equal to the rated operational current (Ie) of the motor.



Operational power in kW-50 Hz.
Example:
Asynchronous motor with P = 5.5 kW - Ue = 400 V - Ie = 11 A - Ic = Ie = 11 A
or asynchronous motor with P = 5.5 kW - Ue = 415 V - Ie = 11 A - Ic = Ie = 11 A
3 million operating cycles required.
The above selection curves show the contactor rating needed: LC1D18.

Selection according to required electrical durability, in category AC-3, AC-3e (Ue = 660/690 V) (1)

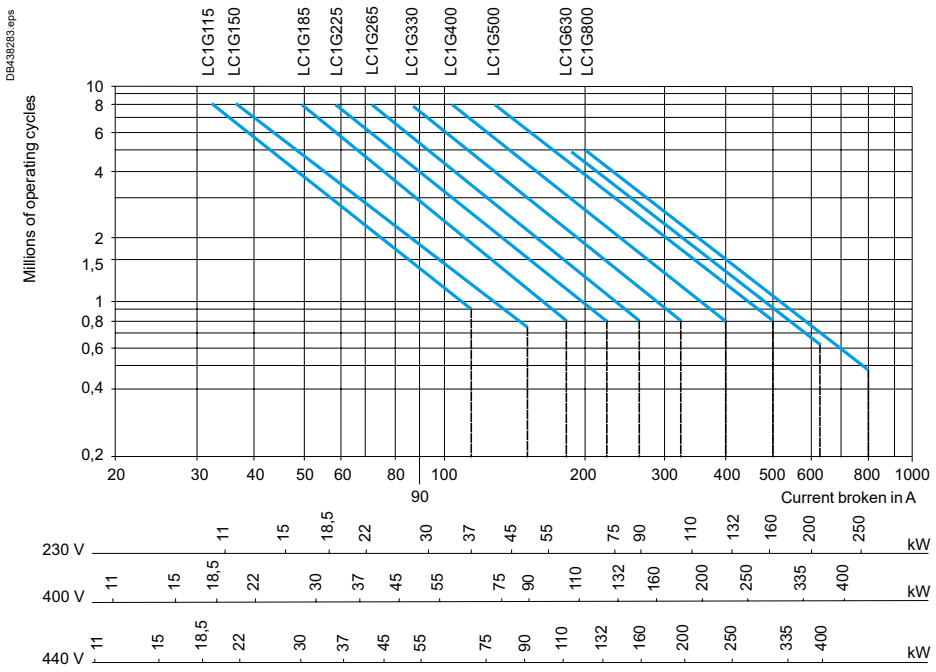
Control of 3-phase asynchronous squirrel cage motors with breaking whilst running.
The current broken (Ic) in category AC-3 is equal to the rated operational current (Ie) of the motor.



(1) For Ue = 1000 V, use the 660/690 V curves, but do not exceed the operational current at the operational power indicated for 1000 V in the table pages A3/40 & A3/41.
(2) For Deca Advanced Contactors, please contact your Local Schneider Electric Technical Support for values.

Selection according to required electrical durability, in category AC-3 (Ue ≤ 440 V)

Control of 3-phase asynchronous squirrel cage motors with breaking whilst running. The current broken (Ic) in category AC-3 is equal to the rated operational current (Ie) of the motor.



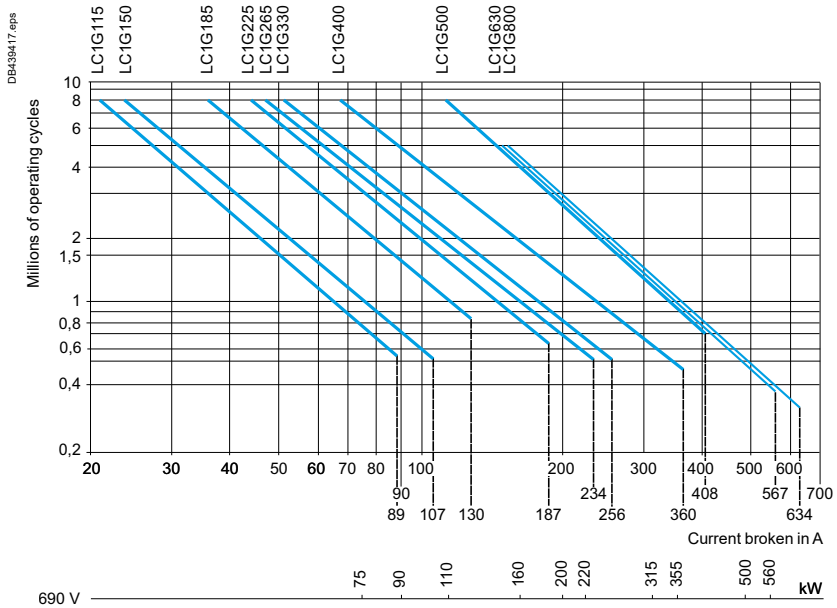
Operational power in kW-50 Hz.

Example:

Asynchronous motor with P = 132 kW - Ue = 400 V - Ie = 230 A - Ic = Ie = 230 A
1.8 million operating cycles required.
The above selection curves show the contactor rating needed: LC1G400.

Selection according to required electrical durability, in category AC-3 (Ue = 660/690 V)

Control of 3-phase asynchronous squirrel cage motors with breaking whilst running.
The current broken (Ic) in category AC-3 is equal to the rated operational current (Ie) of the motor.



Example:

Asynchronous motor with P = 200 kW - Ue = 690 V - Ie = 203 A - Ic = Ie = 203 A
1 million operating cycles required.
The above selection curves show the contactor rating needed: LC1G400.

Maximum operational current (open-mounted device)

Contactor size			LC1 D09	LC1 DT20	LC1 D12 DT25	LC1 D18 DT32	LC1 D25 DT40	LC1 D32	LC1 D38	LC1 D40A DT60A	LC1 D50A	LC1 D65A D80A DT80A
Maximum operating rate in operating cycles/hour			600	600	600	600	600	600	600	600	600	600
Connection conforming to IEC 60947-1	Cable c.s.a.	**mm²**	4	4	4	6	6	10	10	35	35	35
	Bar c.s.a.	**mm**	–	–	–	–	–	–	–	–	–	–
Operational current in AC-1 in A, according to the ambient temperature conforming to IEC 60947-1	≤ 40 °C	**A**	25	20	25	32	40	50	50	60	80	80
	≤ 60 °C	**A** (4)	25	20	25	32	40	50	50	60	80	80
	≤ 70 °C	**A** (4)	17	(1)	17	22	28	35	35	42	56	56
Maximum operational power ≤ 60 °C	220/230 V	**kW**	9	8	9	11	14	18	18	21	29	29
	240 V	**kW**	9	8	9	12	15	19	19	23	31	31
	380/400 V	**kW**	15	14	15	20	25	31	31	37	50	50
	415 V	**kW**	17	14	17	21	27	34	34	41	54	54
	440 V	**kW**	18	15	18	23	29	36	36	43	58	58
	500 V	**kW**	20	17	20	23	33	41	41	49	65	65
	660/690 V	**kW**	27	22	27	34	43	54	54	65	80	80
	1000 V	**kW**	–	–	–	–	–	–	–	–	–	–

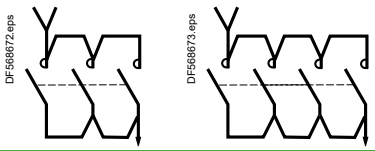
(1) Please consult your Local Schneider Electric Technical Support.
*(2) With set of right-angled connectors **LA9F2100.***
*(3) With set of right-angled connectors **LA9F2600**.*
*(4) **LC1G115** to **LC1G800**: the maximum control voltage must not exceed rated Uc for a temperature θ, 60 °C ≤ θ ≤ 70 °C.*

Coordination and standards

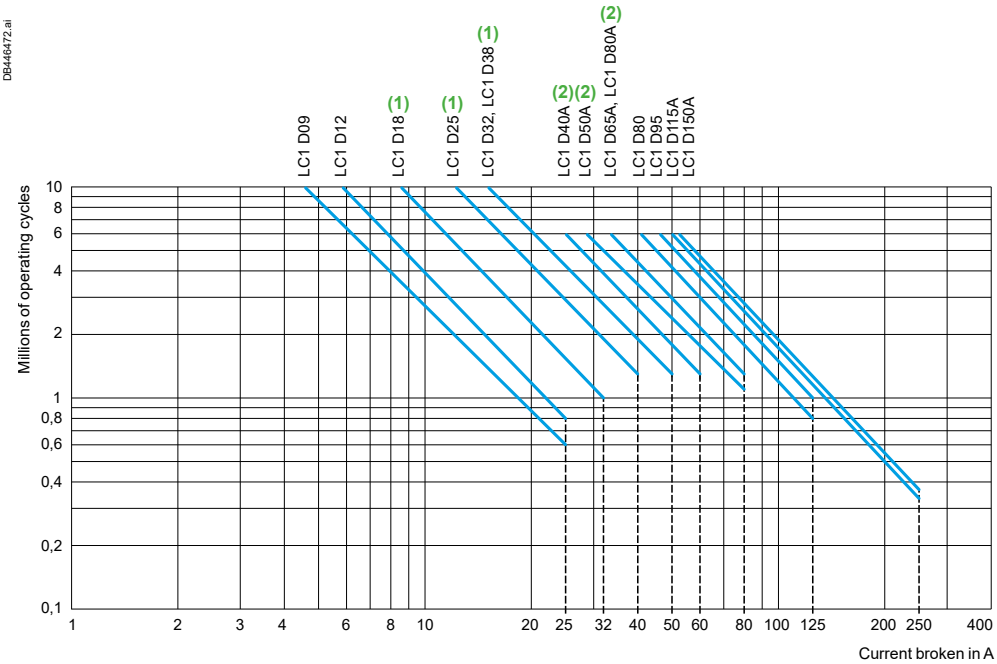
Increase in operational current by parallel connection of poles

Apply the following coefficients to the currents or power values given above; these coefficients take into account an often unbalanced current distribution between the poles:

- 2 poles in parallel: K = 1.6
- 3 poles in parallel: K = 2.25
- 4 poles in parallel: K = 2.8



Selection according to required electrical durability, in category AC-1 (Ue ≤ 690 V)



(1) For Deca Advanced, consult online data sheets for values.
(2) For Deca Advanced or DC coil, consult online data sheets for values.

Control of resistive circuits (cos ϕ ≥ 0.95).
The current broken (Ic) in category AC-1 is equal to the current (Ie) normally drawn by the load.

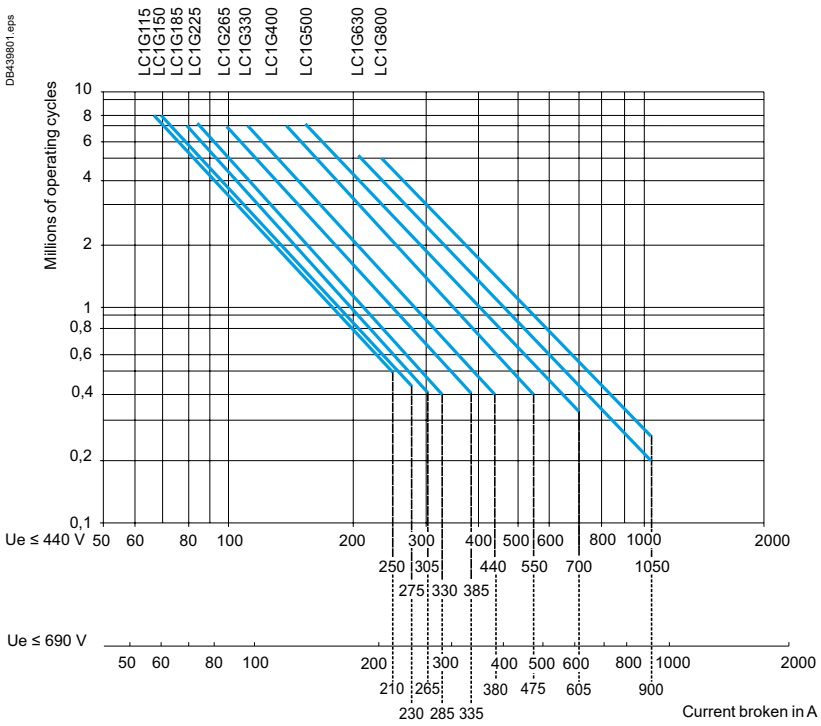
Example:

- Ue = 220 V - Ie = 50 A θ ≤ 40 °C - Ic = Ie = 50 A
- 2 million operating cycles required
- the above selection curves show the contactor rating needed: LC1D50A.

LC1/ LP1 D80	LC1 D95	LC1 D115A	LC1 D150A	LC1 G115	LC1 G150	LC1 G185	LC1 G225	LC1 G265	LC1 G330	LC1 G400	LC1 G500	LC1 G630	LC1 G800
600	600	600	600	300	300	300	300	300	300	300	300	300	300
50	50	120	120	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–
125	125	250	250	250	275	305	330	385	440	550	700	1050	1050
125	125	200	200	225	250	275	300	350	400	500	600	800	800
80	80	160	160	210	235	255	280	330	380	470	540	640	640
45	45	80	80	90	100	110	120	140	160	200	240	320	320
49	49	83	83	90	100	110	120	150	170	210	250	330	330
78	78	135	135	160	170	190	210	240	280	350	420	550	550
85	85	140	140	160	180	200	220	250	290	360	430	580	580
90	90	150	150	170	190	210	230	270	300	380	460	610	610
102	102	170	170	190	220	240	260	300	350	430	520	690	690
135	135	235	235	270	300	330	360	420	480	600	720	960	960
120	120	345	345	390	430	480	520	610	690	870	1040	1390	1390

(1) Please consult your Local Schneider Electric Technical Support.
*(2) With set of right-angled connectors **LA9F2100.***
*(3) With set of right-angled connectors **LA9F2600**.*
*(4) **LC1G115** to **LC1G800**: the maximum control voltage must not exceed rated Uc for a temperature θ, 60 °C ⩽ θ ⩽ 70 °C.*

Selection according to required electrical durability, in category AC-1 (Ue ⩽ 690 V, θ ⩽ 40 °C)



Example:
- Ue = 440 V - Ie = 500 A - θ ⩽ 40 °C - Ic = Ie = 500 A
- 0.8 million operating cycles required
- the above selection curves show the contactor rating needed: LC1G630.

Maximum breaking current

Category AC-2: slip ring motors - breaking the starting current.
Category AC-4: squirrel cage motors - breaking the starting current.

Contactor size			LC1 D09	LC1 D12	LC1 D18	LC1 D25	LC1 D32	LC1 D38	LC1 D40A	LC1 D50A	LC1 D65A	LC1 D80A
In category AC-4 (Ie max)	Ue ≤ 440 V Ie max broken = 6 x I motor	**A**	54	72	108	150	192	192	240	300	390	390
	440 V < Ue ≤ 690 V Ie max broken = 6 x I motor	**A**	40	50	70	90	105	105	150	170	210	210
Depending on the maximum operating rate (1) **and the on-load factor,** θ ≤ 60 °C (2)												
From 150 and 15 % to 300 and 10 %		**A**	30	40	45	75	80	80	110	140	160	160
From 150 and 20 % to 600 and 10 %		**A**	27	36	40	67	70	70	96	120	148	148
From 150 and 30 % to 1200 and 10 %		**A**	24	30	35	56	60	60	80	100	132	132
From 150 and 55 % to 2400 and 10 %		**A**	19	24	30	45	50	50	62	80	110	110
From 150 and 85 % to 3600 and 10 %		**A**	16	21	25	40	45	45	53	70	90	90

Contactor size			LC1 G115	LC1 G150	LC1 G185	LC1 G225	LC1 G265	LC1 G330	LC1 G400	LC1 G500	LC1 G630	LC1 G800
In category AC-4 (Ie max)	Ue ≤ 440 V Ie max broken = 6 x I motor	**A**	690	900	1110	1350	1590	1980	2400	3000	3780	4050
	440 V < Ue ≤ 690 V Ie max broken = 6 x I motor	**A**	530	640	780	1120	1400	1530	2160	2450	3400	3800
Depending on the maximum operating rate (1) **and the on-load factor,** θ ≤ 60 °C (2)												
Duty Cycle [Cycle/h]	**Load Factor [%]**											
150	15	**A**	319	400	478	562	641	758	869	1001	1124	1204
300	10	**A**	250	314	375	441	502	593	679	779	870	923
150	20	**A**	304	383	457	538	613	726	834	962	1083	1165
600	10	**A**	183	230	275	324	369	437	502	579	653	703
150	30	**A**	280	352	421	495	565	668	766	883	993	1065
1200 (3)	10	**A**	131	164	196	230	262	309	353	404	449	473
150	55	**A**	239	300	358	421	480	568	652	750	842	902
2400 (3)	10	**A**	120	151	181	212	242	287	329	379	426	457
150	85	**A**	208	261	312	368	420	498	572	661	748	809
3600 (3)	10	**A**	120	151	181	212	242	287	329	379	426	457

(1) Do not exceed the maximum number of operating cycles.
(2) For temperatures higher than 60 °C, use a maximum operating rate value equal to 80 % of the actual value when selecting from the tables.
(3) Control Module can operate with higher duty cycle during limited time followed by proposed cooling time.

Operating cycles/hour	Cool time
1200	**10 min**
2400	**30 min**
3600	**60 min**

Counter current braking (plugging)

The current varies from the maximum plug-braking current to the rated motor current.
The making current must be compatible with the rated making and breaking capacities of the contactor.

As breaking normally takes place at a current value at or near the locked rotor current, the contactor can be selected using the criteria for categories AC-2 and AC-4.

Permissible AC-4 power rating for 200 000 operating cycles

Operational voltage		LC● D09	LC● D12	LC● D18	LC● D25	LC● D32	LC● D38	LC● D40A	LC● D50A	LC● D65A	LC1 D80A
220/230 V (4)	**kW**	1.5	1.5	2.2	3	4	4	4	5.5	7.5	7.5
380/400 V (5)	**kW**	2.2	3.7	4	5.5	7.5	7.5	9	11	11	11
415 V	**kW**	2.2	3	3.7	5.5	7.5	7.5	9	11	11	11
440 V	**kW**	2.2	3	3.7	5.5	7.5	7.5	11	11	15	15
500 V	**kW**	3	4	5.5	7.5	9	9	11	15	15	15
660/690 V (6)	**kW**	4	5.5	7.5	10	11	11	15	15	18.5	18.5

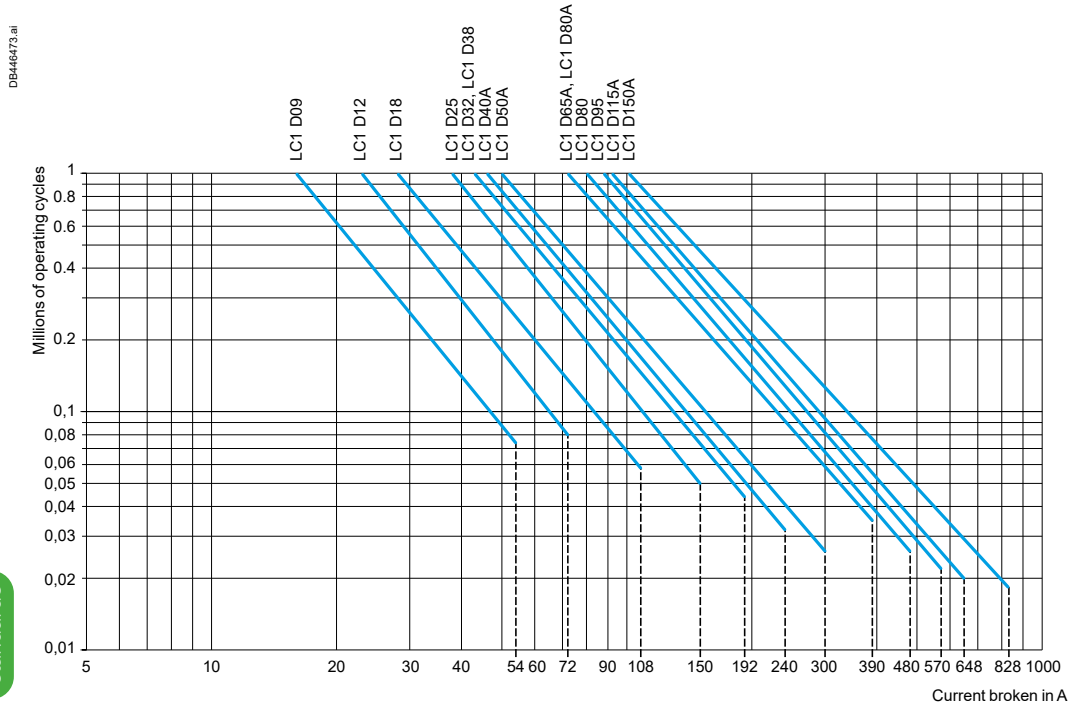
(4) 230 V for LC1G115 to LC1G800 contactors.
(5) 400 V for LC1G115 to LC1G800 contactors.
(6) 690 V for LC1G115 to LC1G800 contactors.

LC1 D80	LC1 D95	LC1 D115A	LC1 D150A
480	570	630	830
250	250	540	640
200	200	280	310
170	170	250	280
145	145	215	240
120	120	150	170
100	100	125	145

LC● D80	LC● D95	LC1 D115A	LC1 D150A	LC1 G115	LC1 G150	LC1 G185	LC1 G225	LC1 G265	LC1 G330	LC1 G400	LC1 G500	LC1 G630	LC1 G800
7.5	9	9	11	11	11	15	18.5	22	22	30	37	37	37
15	15	18.5	22	22	22	30	30	37	45	55	55	55	75
15	15	18.5	22	22	22	30	30	37	45	55	55	55	75
15	15	18.5	22	22	22	30	37	45	55	55	55	75	75
22	22	30	37	11	11	18.5	22	22	30	45	45	55	55
25	25	30	45	18.5	22	22	30	37	45	55	55	75	90

Selection according to required electrical durability, in categories AC-2 or AC-4 (Ue ≤ 440 V)

Control of 3-phase asynchronous squirrel cage motors (AC-4) or slip ring motors (AC-2) with breaking whilst motor stalled.
The current broken (Ic) in AC-2 is equal to 2.5 x Ie.
The current broken (Ic) in AC-4 is equal to 6 x Ie (Ie = rated operational current of the motor).

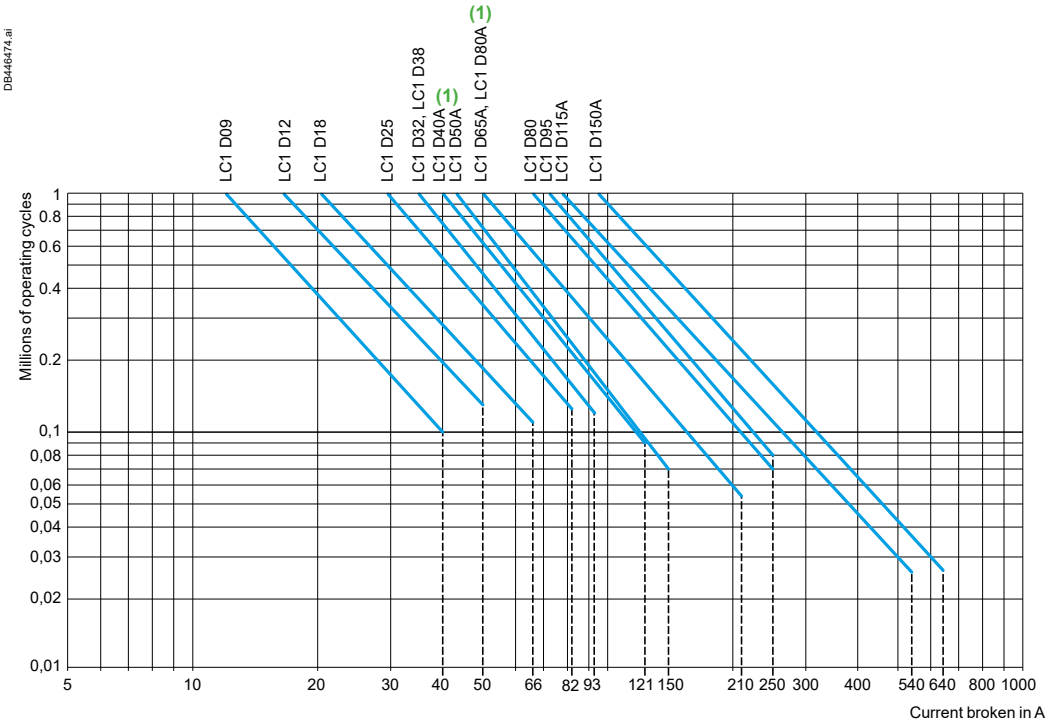


Example:

- asynchronous motor with P = 5.5 kW - Ue = 400 V - Ie = 11 A. Ic = 6 x Ie = 66 A
- or asynchronous motor with P = 5.5 kW - Ue = 415 V - Ie = 11 A. Ic = 6 x Ie = 66 A
- 200 000 operating cycles required
- the above selection curves show the contactor rating needed: LC1D25.

Selection according to required electrical durability, use in category AC-4 (440 V < Ue ≤ 690 V)

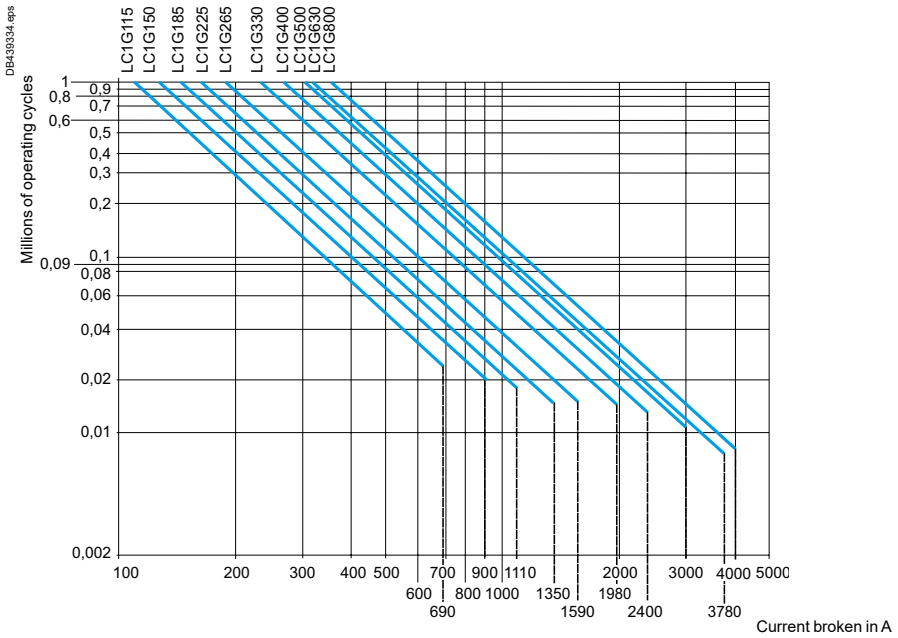
Control of 3-phase asynchronous squirrel cage motors with breaking whilst motor stalled.
The current broken (Ic) in AC-2 is equal to 2.5 x Ie.
The current broken (Ic) in AC-4 is equal to 6 x Ie (Ie = rated operational current of the motor).



(1) For Deca Advanced Contactors, please contact your Local Schneider Electric Technical Support for values.

Selection according to required electrical durability, in categories AC-2 or AC-4 (Ue ≤ 440 V)

Control of 3-phase asynchronous squirrel cage motors (AC-4) or slip ring motors (AC-2) with breaking whilst motor stalled.
The current broken (Ic) in AC-4 is equal to 6 x Ie.
(Ie = rated operational current of the motor).

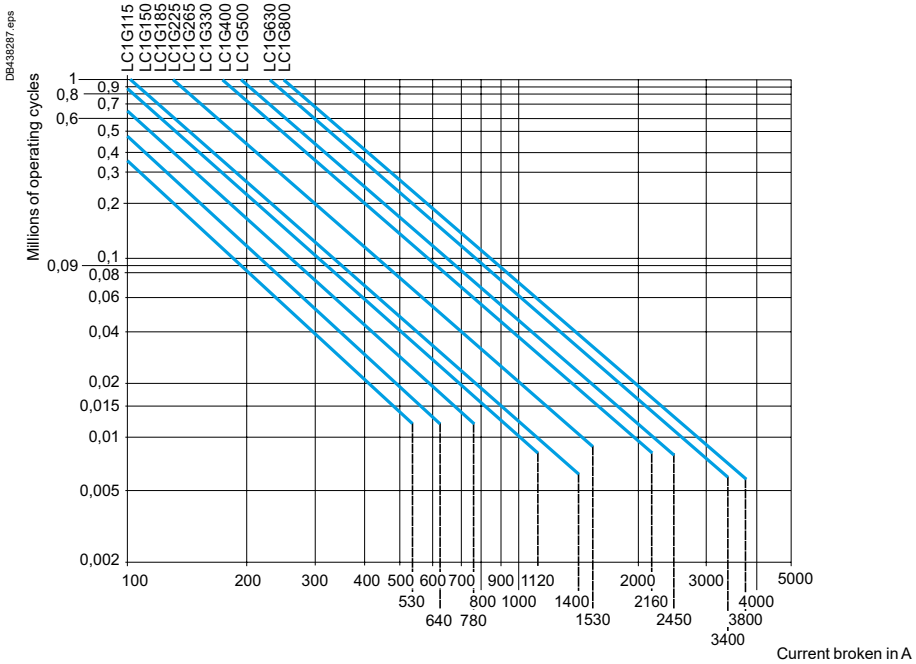


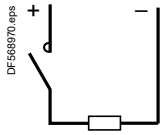
Example:

- asynchronous motor with P = 132 kW - Ue = 400 V - Ie = 230 A. Ic = 6 x Ie = 1380 A.
- 30 000 operating cycles required.
- the above selection curves show the contactor rating needed: LC1G330.

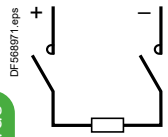
Selection according to required electrical durability, use in category AC-4 (440 V < Ue ≤ 690 V)

Control of 3-phase asynchronous squirrel cage motors with breaking whilst motor stalled.
The current broken (Ic) in AC-4 is equal to 6 x Ie (Ie = rated operational current of the motor).

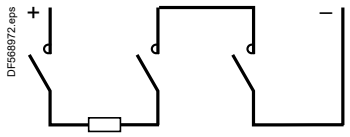




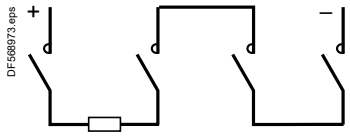
1 pole



2 poles



3 poles



4 poles

Rated operational current (Ie) in Amperes, in utilisation category DC-1 [1], resistive loads: time constant $\frac{L}{R}$ ≤ 1 ms, ambient temperature ≤ 60 °C

Rated operational voltage Ue	No. of poles connected in series	Contactor rating								
		LC1 D09	LC1 DT20	LC1 D12 DT25	LC1 D18 DT32	LC1 D25 DT40	LC1 D32	LC1 D38	LC1 D40A	LC1 DT60A
V										
24	1	20	20	20	25	32	40	40	50	50
	2	20	20	20	25	32	40	40	50	50
	3	20	20	20	25	32	40	40	50	50
	4	–	20	20	25	32	–	–	–	50
48/75	1	20	20	20	25	32	40	40	50	50
	2	20	20	20	25	32	40	40	50	50
	3	20	20	20	25	32	40	40	50	50
	4	–	20	20	25	32	–	–	–	50
125	1	4	4	4	4	7	7	7	7	7
	2	20	20	20	25	32	40	40	50	50
	3	20	20	20	25	32	40	40	50	50
	4	–	20	20	25	32	–	–	–	50
250	1	1	1	1	1	1	1	1	1	1
	2	4	4	4	4	7	7	7	7	7
	3	20	20	20	25	32	40	40	50	50
	4	–	20	20	25	32	–	–	–	50
300	1	–	–	–	–	–	–	–	–	–
	2	–	–	–	–	–	–	–	–	–
	3	4	4	4	4	7	7	7	7	–
	4	–	20	20	25	32	–	–	–	50
460	1	–	–	–	–	–	–	–	–	–
	2	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–
	4	–	–	–	–	–	–	–	–	–

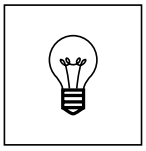
Rated operational current (Ie) in Amperes, in utilisation category DC-2 to DC-5 [1], inductive loads: time constant $\frac{L}{R}$ ≤ 15 ms, ambient temperature ≤ 60 °C

Rated operational voltage Ue	No. of poles connected in series	Contactor rating								
		LC1 D09	LC1 DT20	LC1 D12 DT25	LC1 D18 DT32	LC1 D25 DT40	LC1 D32	LC1 D38	LC1 D40A	LC1 DT60A
V										
24	1	20	20	20	25	32	40	40	50	50
	2	20	20	20	25	32	40	40	50	50
	3	20	20	20	25	32	40	40	50	50
	4	–	20	20	25	32	–	–	–	50
48/75	1	20	20	20	25	32	40	40	50	50
	2	20	20	20	25	32	40	40	50	50
	3	20	20	20	25	32	40	40	50	50
	4	–	20	20	25	32	–	–	–	50
125	1	2	2	2	2	3	3	3	4	4
	2	20	20	20	25	32	40	40	50	50
	3	20	20	20	25	32	40	40	50	50
	4	–	20	20	25	32	–	–	–	50
250	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	1
	2	2	2	2	2	3	3	3	4	4
	3	8	8	8	8	32	40	40	50	50
	4	–	20	20	25	32	–	–	–	50
300	1									
	2									
	3	2	2	2	2	3	3	3	3	3
	4	–	8	8	8	32	–	–	–	50
460	1	–	–	–	–	–	–	–	–	–
	2									
	3									
	4	–	–	–	–	–	–	–	–	–

(1) In DC applications, lower current values than the ones specified in these tables may lead to durability performances lower than defined in the IEC 60947-4-1 (critical current).
For applications with lower current than the values specified in these tables, please consult your Local Schneider Electric Technical Support.

Contactor rating																	
LC1 D50A	**LC1 D65A D80A**	**LC1 DT80A**	**LC1 D80**	**LC1 D95**	**LC1 D115A**	**LC1 D150A**	**LC1 G115**	**LC1 G150**	**LC1 G185**	**LC1 G225**	**LC1 G265**	**LC1 G330**	**LC1 G400**	**LC1 G500**	**LC1 G630**	**LC1 G800**	**LC1 F780**
65	65	65	100	100	200	200	225	250	275	300	350	400	500	600	950	950	1300
65	65	65	100	100	200	200	225	250	275	300	350	400	500	600	950	950	1300
65	65	65	100	100	200	200	225	250	275	300	350	400	500	600	950	950	1300
–	–	65	100	–	200	–	225	250	275	300	350	400	500	600	950	950	1300
65	65	65	100	100	200	200	225	250	275	300	350	400	500	600	950	950	1300
65	65	65	100	100	200	200	225	250	275	300	350	400	500	600	950	950	1300
65	65	65	100	100	200	200	225	250	275	300	350	400	500	600	950	950	1300
–	–	65	100	–	200	–	225	250	275	300	350	400	500	600	950	950	1300
7	7	7	12	12	12	12	205	225	250	270	315	360	450	540	855	855	1180
65	65	65	100	100	200	200	205	225	250	270	315	360	450	540	855	855	1180
65	65	65	100	100	200	200	225	250	275	300	355	405	505	605	960	960	1300
–	–	65	100	–	200	–	225	250	275	300	355	405	505	605	960	960	1300
1	1.5	1.5	2	2	10	10	–	–	–	–	–	–	–	–	–	–	–
7	7	7	12	12	200	200	180	205	225	245	285	325	405	485	770	770	1000
65	65	65	100	100	200	200	225	250	275	300	350	400	500	600	950	950	1300
–	–	65	100	–	200	–	225	250	275	300	350	400	500	600	945	945	1300
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
7	7	7	12	12	200	200	185	205	225	250	290	330	415	495	785	785	1000
–	–	65	100	–	200	–	225	250	275	300	350	400	500	600	950	950	1000
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	200	–	185	205	225	245	285	325	410	490	775	775	1000

Contactor rating																	
LC1 D50A	**LC1 D65A D80A**	**LC1 DT80A**	**LC1 D80**	**LC1 D95**	**LC1 D115A**	**LC1 D150A**	**LC1 G115**	**LC1 G150**	**LC1 G185**	**LC1 G225**	**LC1 G265**	**LC1 G330**	**LC1 G400**	**LC1 G500**	**LC1 G630**	**LC1 G800**	**LC1 F780**
65	65	65	100	100	200	200	225	250	275	300	350	400	500	600	950	950	1300
65	65	65	100	100	200	200	225	250	275	300	350	400	500	600	950	950	1300
65	65	65	100	100	200	200	225	250	275	300	350	400	500	600	950	950	1300
–	–	65	100	–	200	–	225	250	275	300	350	400	500	600	950	950	1300
65	65	65	100	100	200	200	225	250	275	300	350	400	500	600	950	950	1300
65	65	65	100	100	200	200	225	250	275	300	350	400	500	600	950	950	1300
65	65	65	100	100	200	200	225	250	275	300	350	400	500	600	950	950	1300
–	–	65	100	–	200	–	225	250	275	300	350	400	500	600	950	950	1300
4	4	4	5	5	10	10	-	-	-	-	-	-	-	-	-	-	–
65	65	65	100	100	200	200	190	210	230	250	290	335	420	500	795	795	1000
65	65	65	100	100	200	200	205	230	255	275	325	370	460	555	875	875	1000
–	–	65	100	–	200	–	205	230	255	275	325	370	460	555	875	875	1000
1	1.5	1.5	1	1	3	3	–	–	–	–	–	–	–	–	–	–	–
4	4	4	5	5	200	200	175	190	210	230	270	305	385	460	730	730	900
65	65	65	100	100	200	200	185	210	230	250	290	335	415	500	790	790	1000
–	–	65	100	–	200	–	225	250	275	300	355	405	505	605	960	960	1000
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
3	3	3	5	5	200	200	175	195	210	230	270	310	385	465	730	730	900
–	–	65	100	–	200	–	225	250	275	300	350	400	500	600	950	950	1000
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	200	–	175	190	210	230	270	310	385	460	730	730	800



General

The operating conditions of lighting circuits have the following characteristics:
- continuous duty: the switching device can remain closed for several days or even months
- a dispersion factor of 1: all luminaires in the same group are switched on or off simultaneously
- a relatively high temperature around the device due to the enclosure, the presence of fuses, or an unventilated control panel location.

This is why the operational current for lighting is lower than the value given for AC-1 duty.

Protection

The continuous duty current drawn by a lighting circuit is constant. In fact:
- it is unlikely that the number of luminaires of an existing circuit will be modified
- this type of circuit cannot create an overload of long duration.

It is therefore only necessary to provide short-circuit protection.
This can be provided by:
- gG type fuses, or
- modular circuit breakers.

Nevertheless, it is always possible and sometimes more economical (smaller cable size) to protect the circuit by a thermal overload relay and associated aM type uses.

Distribution system

Single-phase circuit, 220/240 V

The tables on pages A3/53 to A3/57 are based on a single-phase 220/240 V circuit and can therefore be applied directly in this case.

3-phase circuit, 380/415 V (with neutral)

The total number of lamps (N) to be switched simultaneously is divided into three equal groups, each connected between one phase and neutral. The contactor can then be selected from the 220/240 V single-phase tables for a number of lamps equal to $\frac{N}{3}$ lamps.

3-phase circuit, 220/240 V

The total number of lamps (N) to be switched simultaneously is divided into three equal groups, each connected between 2 phases (L1-L2), (L2-L3), (L3-L1).
The contactor can then be selected from the 220/240 V single-phase table for a number of lamps equal to $\frac{N}{\sqrt{3}}$ lamps.

Contactor selection tables

For the different types of lamps, the tables on pages A3/53 to A3/57 give the maximum number of lamps of unit power P (in Watts), which can be switched simultaneously for each size of contactor.
They are based on:
- a 220/240 V single-phase circuit
- an ambient temperature of 55 °C (1), taking into account the operating conditions (see General paragraph)
- an electrical life of more than 10 years (200 days' operation per year).

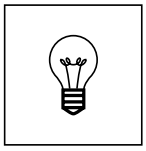
They take into account:
- the total current drawn (including ballast)
- transient phenomena which occur at switch-on
- the starting currents and their duration
- the circulation of any harmonics which may be present.

Lamps with compensating capacitor C (µF) connected in parallel

Parallel connected compensating capacitors **C** cause a current peak at the moment of switch-on. To ensure that the value of this current peak remains compatible with the making characteristics of the contactors, the unit value of the capacitance must not exceed the following:

Switching contactor rating	**LC1 K09**	**LP1 K09**	**LC1 D09**	**LC1 D12**	**LC1 D18**	**LC1 D25**	**LC1 D32**	**LC1 D38**	**LC1 D40A**	**LC1 D50A**	**LC1 D65A**	**LC1 D80A**	**LC1 D80**
Maximum unit value C (µF) of parallel connected compensating capacitor	7	3	18	18	25	60	96	96	120	120	240	240	240
Switching contactor rating	**LC1 D80**	**LC1 D95**	**LC1 D115A**	**LC1 D150A**	**LC1 G185**	**LC1 G225**	**LC1 G265**	**LC1 G330**	**LC1 G400**	**LC1 G500**	**LC1 G630**	**LC1 G800**	
Maximum unit value C (µF) of parallel connected compensating capacitor	240	240	300	360	800	1200	1700	2500	4000	6000	9000	10800	

This value is independent of the number of lamps switched by the contactor.
(1) For an ambient temperature of 40 °C, multiply the number by 1.2.



Usual values

The tables show the following values:
- IB: value of current drawn by each lamp at its rated voltage,
- C: unit capacitance for each lamp,

corresponding to the values normally quoted by lamp manufacturers.

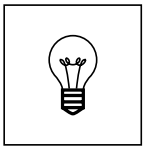
These values are given for an ambient temperature of 55 °C (for 40 °C, multiply the number by 1.2).

Incandescent and halogen lamps

P (W)	60	75	100	150	200	300	500	750	1000	
IB (A)	**0.27**	**0.34**	**0.45**	**0.68**	**0.91**	**1.40**	**2.30**	**3.40**	**4.60**	**LC1**
Max. no. of lamps according to P (W)	35	28	21	14	10	6	4	2	2	**K09**
	59	47	35	23	17	11	7	4	3	**D09, D12**
	77	61	46	30	23	15	9	6	4	**D18**
	92	73	55	36	27	18	11	7	5	**D25**
	129	103	77	51	38	25	15	10	7	**D32, D38**
	163	129	97	64	48	31	19	13	9	**D40A**
	207	164	124	82	62	40	24	16	12	**D50A, D65A, D80A**
	296	235	177	117	88	57	34	23	17	**D80, D95**
	520	410	310	200	150	100	60	40	30	**D115A**
	590	470	350	230	170	110	60	40	30	**D150A**
	710	564	426	282	210	136	82	56	40	**G185**
	770	610	462	304	228	148	90	60	44	**G225**
	888	704	532	352	262	170	104	70	52	**G265**
	1006	800	604	400	298	194	118	80	58	**G330**
	1274	1010	764	504	378	244	148	100	74	**G400**
	1718	1364	1030	682	508	330	200	136	100	**G500**
	2328	1850	1396	924	690	448	272	184	136	**G630**
	2776	2204	1666	1102	824	534	326	220	162	**G800**

Mixed lighting lamps

P (W)	100	160	250	500	1000	
IB (A)	**0.45**	**0.72**	**1.10**	**2.30**	**4.50**	**LC1**
Max. no. of lamps according to P (W)	21	13	8	4	2	**K09**
	35	22	14	7	3	**D09, D12**
	46	29	18	9	4	**D18**
	55	36	23	11	5	**D25**
	77	48	30	15	7	**D32, D38**
	97	61	38	19	9	**D40A**
	124	77	49	24	12	**D50A, D65A, D80A**
	177	111	70	34	17	**D80, D95**
	310	190	120	60	30	**D115A**
	350	220	140	60	30	**D150A**
	426	266	174	82	42	**G185**
	462	288	188	90	46	**G225**
	532	332	218	104	52	**G265**
	604	378	246	118	60	**G330**
	764	478	312	150	76	**G400**
	1030	644	422	202	102	**G500**
	1398	874	572	272	140	**G630**
	1666	1040	680	326	166	**G800**



Usual values

The tables show the following values:
- IB: value of current drawn by each lamp at its rated voltage
- C: unit capacitance for each lamp

corresponding to the values normally quoted by lamp manufacturers.

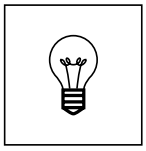
These values are given for an ambient temperature of 55 °C (for 40 °C, multiply the number by 1.2).

Fluorescent lamps with starter. Single fitting

	Non corrected					With parallel correction					
P (W)	**20**	**40**	**65**	**80**	**110**	**20**	**40**	**65**	**80**	**110**	
IB (A)	**0.39**	**0.45**	**0.70**	**0.80**	**1.2**	**0.17**	**0.26**	**0.42**	**0.52**	**0.72**	
C (µF)	**–**	**–**	**–**	**–**	**–**	**5**	**5**	**7**	**7**	**16**	**LC1**
Max. no. of lamps according to P (W)	24	21	13	12	8	56	36	22	18	–	**K09**
	41	35	22	20	13	94	61	38	30	22	**D09, D12**
	53	46	30	26	17	123	80	50	40	29	**D18**
	66	57	37	32	21	152	100	61	50	36	**D25**
	89	77	50	43	29	205	134	83	67	48	**D32, D38**
	112	97	62	55	36	258	169	104	84	61	**D40A**
	143	124	80	70	46	329	215	133	107	77	**D50A, D65A, D80A**
	205	177	114	100	66	470	367	190	153	111	**D80, D95**
	330	280	180	160	110	750	490	300	250	180	**D115A, D150A**
	492	426	274	240	160	1128	738	456	368	266	**G185**
	532	462	296	260	172	1224	800	490	400	288	**G225**
	614	532	342	300	200	1412	922	570	462	332	**G265**
	696	604	388	340	226	1600	1046	648	522	378	**G330**
	882	764	490	430	286	2024	1322	818	662	478	**G400**
	1190	1030	662	580	386	2728	1724	1104	892	644	**G500**
	1612	1398	698	786	524	3700	2418	1498	1210	874	**G630, G800**

Fluorescent lamps with starter. Twin fitting

	Non corrected					With series correction					
P (W)	**2x20**	**2x40**	**2x65**	**2x80**	**2x110**	**2x20**	**2x40**	**2x65**	**2x80**	**2x110**	
IB (A)	**2x0.22**	**2x0.41**	**2x0.67**	**2x0.82**	**2x1.1**	**2x0.13**	**2x0.24**	**2x0.39**	**2x0.48**	**2x0.65**	**LC1**
Max. no. of lamps according to P (W)	2x21	2x11	2x7	2x5	2x4	2x36	2x20	2x12	2x10	2x7	**K09**
	2x36	2x18	2x10	2x8	2x6	2x60	2x32	2x20	2x16	2x12	**D09, D12**
	2x46	2x24	2x14	2x12	2x8	2x80	2x42	2x26	2x20	2x16	**D18**
	2x58	2x30	2x18	2x14	2x10	2x100	2x54	2x32	2x26	2x20	**D25**
	2x78	2x42	2x26	2x20	2x14	2x134	2x72	2x44	2x36	2x26	**D32, D38**
	2x100	2x52	2x32	2x26	2x18	2x168	2x90	2x56	2x44	2x32	**D40A**
	2x126	2x68	2x40	2x34	2x24	2x214	2x116	2x70	2x58	2x42	**D50A, D65A, D80A**
	2x180	2x96	2x58	2x48	2x36	2x306	2x166	2x102	2x82	2x60	**D80, D95**
	2x290	2x160	2x100	2x80	2x60	2x490	2x270	2x160	2x130	2x100	**D115A, D150A**
	2x436	2x234	2x142	2x116	2x86	2x738	2x400	2x246	2x200	2x148	**G185**
	2x472	2x254	2x154	2x126	2x94	2x800	2x432	2x266	2x216	2x160	**G225**
	2x544	2x292	2x178	2x146	2x108	2x922	2x500	2x308	2x250	2x184	**G265**
	2x618	2x332	2x202	2x166	2x124	2x1046	2x566	2x348	2x282	2x208	**G330**
	2x782	2x420	2x256	2x210	2x156	2x1322	2x716	2x440	2x358	2x264	**G400**
	2x1054	2x566	2x346	2x282	2x210	2x1784	2x966	2x594	2x482	2x356	**G500**
	2x1430	2x766	2x468	2x384	2x286	2x2418	2x1310	2x806	2x654	2x484	**G630, G800**



Usual values

The tables show the following values:
- IB: value of current drawn by each lamp at its rated voltage
- C: unit capacitance for each lamp

corresponding to the values normally quoted by lamp manufacturers.

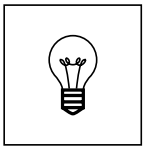
These values are given for an ambient temperature of 55 °C (for 40 °C, multiply the number by 1.2).

Fluorescent lamps without starter. Single fitting

	Non corrected					With parallel correction					
P (W)	**20**	**40**	**65**	**80**	**110**	**20**	**40**	**65**	**80**	**110**	
IB (A)	**0.43**	**0.55**	**0.80**	**0.95**	**1.4**	**0.19**	**0.29**	**0.46**	**0.57**	**0.79**	
C (µF)	**–**	**–**	**–**	**–**	**–**	**5**	**5**	**7**	**7**	**16**	**LC1**
Max. no. of lamps according to P (W)	22	17	12	10	6	50	33	20	16	–	**K09**
	37	29	20	16	11	84	55	34	28	20	**D09, D12**
	48	38	26	22	15	110	72	45	36	26	**D18**
	60	47	32	27	18	136	89	56	45	32	**D25**
	97	63	43	36	25	184	101	76	61	44	**D32, D38**
	102	80	55	46	31	231	151	95	77	55	**D40A**
	130	101	70	58	40	294	193	121	98	70	**D50A, D65A, D80A**
	186	145	100	84	57	421	275	173	140	101	**D80, D95**
	370	290	200	170	110	840	550	350	280	200	**D115A, D150A**
	446	348	240	202	136	1010	662	416	336	242	**G185**
	484	378	260	218	148	1094	716	452	364	262	**G225**
	558	436	300	252	170	1262	828	522	420	304	**G265**
	632	494	340	286	194	1432	938	590	476	344	**G330**
	800	624	430	362	246	1810	1186	748	604	434	**G400**
	1078	844	580	488	330	2442	1600	1008	814	586	**G500**
	1462	1144	786	662	448	3310	2168	1366	1104	796	**G630, G800**

Fluorescent lamps without starter. Twin fitting

	Non corrected					With series correction					
P (W)	**2x20**	**2x40**	**2x65**	**2x80**	**2x110**	**2x20**	**2x40**	**2x65**	**2x80**	**2x110**	
IB (A)	**2x0.25**	**2x0.47**	**2x0.76**	**2x0.93**	**2x1.3**	**2x0.14**	**2x0.26**	**2x0.43**	**2x0.53**	**2x0.72**	**LC1**
Max. no. of lamps according to P (W)	2x19	2x10	2x6	2x5	2x3	2x34	2x18	2x11	2x9	2x6	**K09**
	2x32	2x16	2x10	2x8	2x6	2x56	2x30	2x18	2x14	2x10	**D09, D12**
	2x42	2x22	2x12	2x10	2x8	2x74	2x40	2x24	2x18	2x14	**D18**
	2x52	2x26	2x16	2x12	2x10	2x92	2x50	2x30	2x24	2x18	**D25**
	2x70	2x36	2x22	2x18	2x12	2x124	2x66	2x40	2x32	2x24	**D32, D38**
	2x88	2x46	2x28	2x22	2x16	2x156	2x84	2x50	2x40	2x30	**D40A**
	2x112	2x58	2x36	2x30	2x20	2x200	2x106	2x64	2x52	2x38	**D50A, D65A, D80A**
	2x160	2x84	2x52	2x42	2x30	2x234	2x152	2x92	2x74	2x54	**D80, D95**
	2x320	2x170	2x110	2x90	2x60	2x570	2x310	2x190	2x150	2x110	**D115A, D150A**
	2x384	2x204	2x126	2x102	2x74	2x686	2x368	2x222	2x180	2x132	**G185**
	2x416	2x220	2x136	2x112	2x80	2x742	2x400	2x242	2x196	2x144	**G225**
	2x480	2x254	2x158	2x128	2x92	2x856	2x462	2x278	2x226	2x166	**G265**
	2x544	2x288	2x178	2x146	2x104	2x970	2x522	2x316	2x256	2x188	**G330**
	2x688	2x366	2x226	2x184	2x132	2x1228	2x662	2x400	2x324	2x238	**G400**
	2x928	2x494	2x304	2x248	2x178	2x1656	2x892	2x540	2x438	2x322	**G500**
	2x1258	2x668	2x414	2x338	2x242	2x2246	2x1210	2x730	2x592	2x436	**G630, G800**



Usual values

The tables show the following values:
- IB: value of current drawn by each lamp at its rated voltage
- C: unit capacitance for each lamp

corresponding to the values normally quoted by lamp manufacturers.

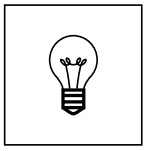
These values are given for an ambient temperature of 55 °C (for 40 °C, multiply the number by 1.2).

Low pressure sodium vapour lamps

	Non corrected							With parallel correction							
P (W)	**35**	**55**	**90**	**135**	**150**	**180**	**200**	**35**	**55**	**90**	**135**	**150**	**180**	**200**	
IB (A)	**1.2**	**1.6**	**2.4**	**3.1**	**3.2**	**3.3**	**3.4**	**0.3**	**0.4**	**0.6**	**0.9**	**1**	**1.2**	**1.3**	
C (µF)	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**17**	**17**	**25**	**36**	**36**	**36**	**36**	**LC1**
Max. no. of lamps according to P (W)	6	5	3	2	2	2	2	–	–	–	–	–	–	–	**K09**
	10	7	5	3	3	3	3	40	30	–	–	–	–	–	**D09, D12**
	12	9	6	4	4	4	4	50	37	25	–	–	–	–	**D18**
	15	11	7	6	5	5	5	63	47	31	21	19	15	14	**D25**
	21	16	10	8	8	7	7	86	65	43	28	26	21	20	**D32, D38**
	27	20	13	10	10	10	9	110	82	55	36	33	27	25	**D40A**
	35	26	17	13	13	12	12	140	105	70	46	42	35	32	**D50A, D65A, D80A**
	50	37	25	19	18	18	17	200	150	100	66	60	50	46	**D80, D95**
	100	75	50	40	40	35	35	400	300	200	135	120	100	90	**D115A, D150A**
	140	104	70	54	52	50	48	560	420	280	186	168	140	128	**G185**
	152	114	76	58	56	54	54	606	454	302	202	182	152	140	**G225**
	174	130	88	68	66	64	62	700	524	350	232	210	174	162	**G265**
	198	148	98	76	74	72	70	792	594	396	264	238	198	182	**G330**
	250	188	124	96	94	90	88	1002	752	502	334	300	250	252	**G400**
	338	254	168	130	126	122	118	1352	1014	676	450	406	338	312	**G500**
	496	372	248	192	186	180	174	1982	1488	992	660	594	496	458	**G630, G800**

High pressure sodium vapour lamps

	Non corrected					With parallel correction					
P (W)	**150**	**250**	**400**	**700**	**1000**	**150**	**250**	**400**	**700**	**1000**	
IB (A)	**1.9**	**3.2**	**5**	**8.8**	**12.4**	**0.84**	**1.4**	**2.2**	**3.9**	**5.5**	
C (µF)	**–**	**–**	**–**	**–**	**–**	**20**	**32**	**48**	**96**	**120**	**LC1**
Max. no. of lamps according to P (W)	4	2	1	–	–	–	–	–	–	–	**K09**
	6	3	2	1	–	–	–	–	–	–	**D09, D12**
	7	4	3	1	1	17	–	–	–	–	**D18**
	10	5	3	2	1	22	13	8	–	–	**D25**
	13	8	5	2	2	30	18	11	6	–	**D32, D38**
	17	10	6	3	2	39	23	15	8	6	**D40A**
	22	13	8	4	3	50	30	19	10	7	**D50A, D65A, D80A**
	31	18	12	6	4	71	42	27	15	10	**D80, D95**
	65	40	25	15	10	145	85	55	30	20	**D115A, D150A**
	88	52	34	18	14	200	120	76	42	30	**G185**
	96	56	36	20	16	216	130	82	46	32	**G225**
	110	66	42	24	18	250	150	94	54	38	**G265**
	124	74	48	26	20	282	170	108	60	42	**G330**
	158	94	60	34	24	358	214	136	76	54	**G400**
	214	126	80	46	32	482	290	184	104	74	**G500**
	312	186	118	68	48	708	424	270	152	108	**G630, G800**



Usual values

The tables show the following values:
- IB: value of current drawn by each lamp at its rated voltage
- C: unit capacitance for each lamp

corresponding to the values normally quoted by lamp manufacturers.

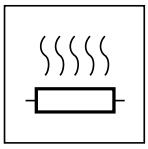
These values are given for an ambient temperature of 55 °C (for 40 °C, multiply the number by 1.2).

High pressure mercury vapour lamps

	Non corrected							With parallel correction							
P (W)	**50**	**80**	**125**	**250**	**400**	**700**	**1000**	**50**	**80**	**125**	**250**	**400**	**700**	**1000**	
IB (A)	**0.54**	**0.81**	**1.20**	**2.30**	**4.10**	**6.80**	**9.90**	**0.3**	**0.45**	**0.67**	**1.3**	**2.3**	**3.8**	**5.5**	
C (µF)	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**10**	**10**	**10**	**18**	**25**	**40**	**60**	**LC1**
Max. no. of lamps according to P (W)	14	9	6	3	1	–	–	–	–	–	–	–	–	–	**K09**
	22	14	9	5	2	1	1	40	26	17	9	–	–	–	**D09, D12**
	27	18	12	6	3	2	1	50	33	22	11	6	–	–	**D18**
	35	23	15	8	4	2	1	63	42	28	14	8	5	3	**D25**
	48	32	21	11	6	3	2	86	57	38	20	11	6	4	**D32, D38**
	61	40	27	14	8	4	3	110	73	49	25	14	8	6	**D40A**
	77	51	34	17	10	6	4	140	93	62	32	18	11	7	**D50A, D65A, D80A**
	111	74	49	26	14	8	6	200	133	89	46	26	15	10	**D80, D95**
	220	150	100	50	30	20	10	400	265	180	90	50	30	20	**D115A, D150A**
	310	206	140	72	40	24	17	560	372	250	128	72	44	30	**G185**
	336	224	152	78	44	26	18	606	404	272	140	78	48	32	**G225**
	388	258	174	90	50	30	20	700	466	312	162	90	54	38	**G265**
	440	294	198	102	58	34	24	792	528	354	182	102	62	42	**G330**
	556	372	250	130	72	44	30	1002	668	448	232	130	78	54	**G400**
	752	500	338	176	98	60	40	1352	902	606	312	176	106	74	**G500**
	1102	734	496	258	144	88	60	1982	1322	888	458	258	156	108	**G630, G800**

Metal iodine vapour lamps

	Non corrected				With parallel correction				
P (W)	**250**	**400**	**1000**	**2000**	**250**	**400**	**1000**	**2000**	
IB (A)	**2.5**	**3.6**	**9.5**	**20**	**1.4**	**2**	**5.3**	**11.2**	
C (µF)	**–**	**–**	**–**	**–**	**32**	**32**	**64**	**140**	**LC1**
Max. no. of lamps according to P (W)	3	2	–	–	–	–	–	–	**K09**
	4	3	1	–	–	–	–	–	**D09, D12**
	6	4	1	–	–	–	–	–	**D18**
	7	5	2	–	13	9	–	–	**D25**
	10	7	2	1	18	13	4	–	**D32, D38**
	13	9	3	1	23	16	6	–	**D40A**
	16	11	4	2	30	21	7	–	**D50A, D65A, D80A**
	24	16	6	3	42	30	11	5	**D80, D95**
	50	35	15	5	85	60	25	10	**D115A, D150A**
	66	46	18	8	120	84	32	14	**G185**
	72	50	20	10	130	90	34	16	**G225**
	84	58	22	12	150	104	40	18	**G265**
	94	66	24	14	170	118	44	20	**G330**
	120	84	32	16	214	150	56	26	**G400**
	162	112	42	20	290	202	76	36	**G500**
	238	164	62	30	424	298	112	52	**G630, G800**



Selection

General

A heating circuit is a power switching circuit supplying one or more resistive heating elements switched by a contactor. The same general rules apply as for motor circuits, except that heating circuits are not normally subjected to overload currents. It is therefore only necessary to provide short-circuit protection.

Characteristics of heating elements

The examples below are based on resistive heating elements used for industrial furnaces or for the heating of buildings (infra-red or resistive radiant type, convector heaters, closed loop heating circuits, etc.). The variation in resistance values between hot and cold states causes a current peak at switch-on which never exceeds 2 to 3 times the rated operational current (In). This initial peak does not recur during normal operation where subsequent switching is thermostatically controlled. The rated power and current of a heater are given for the normal operating temperature.

Protection

The steady state current drawn by a heating circuit is constant when the voltage is stable. In fact:

- it is unlikely that the number of loads in an existing circuit will be modified
- this type of circuit cannot create overloads. It is therefore only necessary to provide short-circuit protection.

This can be provided by:

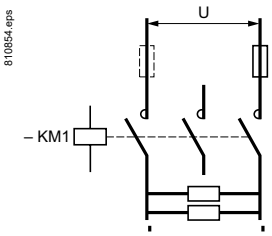
- gG type fuses, or
- modular circuit breakers.

Nevertheless, it is always possible and sometimes more economical (smaller cable size) to protect the circuit by a thermal overload relay and associated aM type fuses.

Switching, control, protection

A heating element or group of heating elements of a given power may be either single-phase or 3-phase and may be supplied from a 220/127 V or a 400/230 V distribution system. Excluding a single-phase 127 V system (which is no longer commonly used), the following 3 types of circuit arrangement are possible:

- single-phase, 2-pole switching
- single-phase, 4-pole switching
- 3-phase switching



Circuit controlled by 2 poles of the contactor.

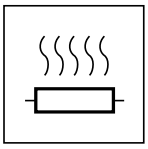
Component selection according to the power switched

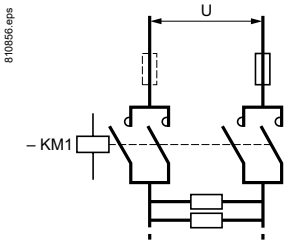
The combinations suggested below are based on an ambient temperature of 55 °C (60 °C for Giga contactors LC1G) and for powers at the nominal voltage, but they also ensure switching in the event of prolonged overloads up to 1.05 Ue.

Single-phase, 2-pole switching

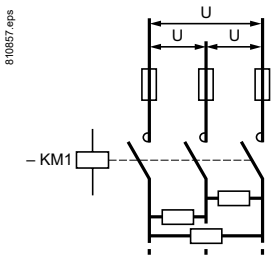
Maximum power (kW)				Contactor rating
220/240 V	380/415 V	660/690 V	1000 V	
3.5	6.5	11	–	**LC1K09, LP1K09**
4.5	8	14	–	**LC1D12**
6	10.5	18.5	–	**LC1D18**
7	13	22.5	–	**LC1D25**
10	18	30.5	–	**LC1D32, LC1D38**
13	22.5	39.5	–	**LC1D40A**
16.5	28.5	43.5	–	**LC1D65A, LC1D80A**
24	42	73	82.5	**LC1D80, LP1D80**
44	76	118	157	**LC1D115A, LC1D150A**

Maximum power (kW)				Contactor rating
230 V	400 V	690 V	1000 V	
40	75	125	185	**LC1G115**
45	80	140	205	**LC1G150**
50	90	155	225	**LC1G185**
55	100	170	250	**LC1G225**
65	115	200	290	**LC1G265**
75	130	230	330	**LC1G330**
95	165	285	415	**LC1G400**
115	200	345	500	**LC1G500**
150	265	460	665	**LC1G630**
150	265	460	665	**LC1G800**





Circuit controlled by a 4-pole contactor with the poles parallel connected in pairs using appropriate connecting links.
This solution enables the control of power values approximately equivalent to those controlled by the same contactor on 3-phase.



Circuit controlled by 3 poles of the contactor.

Component selection according to the power switched

Single-phase, 4-pole switching

Maximum power (kW)				Contactor rating
220/240 V	380/415 V	660/690 V	1000 V	
4.5	8	13.5	–	**LC1K09004, LP1K09004**
7	13	22.5	–	**LC1DT25**
12	21	36.5	–	**LC1DT40**
26	45.5	79.5	–	**LC1DT80A**
38	66	117.5	132	**LC1D80004, LP1D80004**
70	121	190	251	**LC1DT200A**

Maximum power (kW)				Contactor rating
230 V	400 V	690 V	1000 V	
65	120	205	300	**LC1G1154**
75	130	230	330	**LC1G1504**
80	145	250	365	**LC1G1854**
90	160	275	400	**LC1G2254**
105	185	320	465	**LC1G2654**
120	210	365	530	**LC1G3304**
150	265	460	665	**LC1G4004**
180	320	550	800	**LC1G5004**
245	425	735	1065	**LC1G6304**
245	425	735	1065	**LC1G8004**

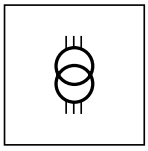
3-phase switching

Maximum power (kW)				Contactor rating
220/240 V	380/415 V	660/690 V	1000 V	
4.5	8	13.5	–	**LC1K09, LP1K09**
7	13	22.5	–	**LC1D12**
10	18	30.5	–	**LC1D18**
13	22.5	39.5	–	**LC1D25**
18	31	52.5	–	**LC1D32, LC1D38**
22.5	38	68	–	**LC1D40A**
28.5	49	86	–	**LC1D65A, LC1D80A**
40.5	70.5	126	135.5	**LC1D80, LP1D80**
76	131	206	275	**LC1D115A, LC1D150A**

Maximum power (kW)				Contactor rating
230 V	400 V	690 V	1000 V	
70	125	220	320	**LC1G115**
80	140	245	360	**LC1G150**
90	155	270	395	**LC1G185**
95	170	295	430	**LC1G225**
115	200	345	505	**LC1G265**
130	230	395	575	**LC1G330**
165	285	495	720	**LC1G400**
195	345	595	865	**LC1G500**
265	460	795	1150	**LC1G630**
265	460	795	1150	**LC1G800**

Application example

For a 220 V, 50 Hz, single-phase circuit supplying a total heating load of 12.5 kW.
Select a 3-pole contactor **LC1D65A**.



Operating conditions

Maximum ambient temperature: 55 °C.

When a transformer is switched on, there is generally an initial current surge which reaches its peak value almost instantaneously and then decreases in a largely exponential manner to quickly reach its steady state value.

The value of this current depends on:
- the characteristics of the magnetic circuit and of the windings (cross sectional area of the core, rated inductance, number of turns, layout and size of the windings, ...)
- the performance of the magnetic laminations used
- the magnetic state of the circuit and the instantaneous value of the a.c. mains voltage at the moment of switch-on.

The inrush current at the moment of switch-on can reach 20 to 40 times the rated current for the various kVA power ratings in the tables below. This value is independent of the “no-load” or “on-load” state of the transformer.

Contactor selection

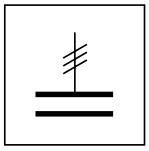
The peak magnetising current of the transformer must be lower than the values given in the tables below.
Maximum operating rate: 120 operating cycles/hour.

Contactor rating			LC1/ LP1 K06	LC1/ LP1 K09	LC1 D09	LC1 D12	LC1 D18	LC1 D25	LC1 D32	LC1 D38	LC1 D40A	LC1 D50A	LC1 D65A D80A	LC1 D80	LC1 D95	LC1 D115A	LC1 D150A
Maximum permissible current peak at switch-on		**A**	160	225	350	350	420	630	770	770	1100	1250	1400	1550	1650	2948	3563
Maximum operational power (1)	220 V 240 V	**kVA**	2	2.5	4	4	5	7	8.5	8.5	14	16	18	19.5	19.5	25	25
	380 V 400 V	**kVA**	3.5	5	7	7	8	12.5	15	15	24	27	31	34	34	50	50
	415 V 440 V	**kVA**	4	5.5	8	8	9	14	17	17	28	32	36	39	39	55	55
	500 V	**kVA**	5	7	9	9	11	16.5	20	20	32	36	40	45	45	65	65
	660 V 690 V	**kVA**	6	8.5	12	12	14	21.5	26.5	26.5	42	48	53	59	59	80	80
	1000 V	**kVA**	–	–	–	–	–	–	–	–	–	–	–	85	95	100	100

(1) Maximum operational power corresponding to a current peak at switch-on of 30 In.

Contactor rating			LC1 G115	LC1 G150	LC1 G185	LC1 G225	LC1 G265	LC1 G330	LC1 G400	LC1 G500	LC1 G630	LC1 G630	LC1 G800
Maximum permissible current peak at switch-on		**A**	1800	2000	2900	3300	3800	5000	6300	7700	9000	11000	12000
Maximum operational power (2)	220 V 240 V	**kVA**	25	25	40	45	50	65	75	100	120	145	175
	380 V 400 V	**kVA**	50	50	75	80	90	120	130	170	200	245	280
	415 V 440 V	**kVA**	55	55	80	90	100	130	140	190	220	270	310
	500 V	**kVA**	65	65	95	100	110	140	170	225	260	315	350
	660 V 690 V	**kVA**	80	80	120	130	140	170	200	270	350	425	400
	1000 V	**kVA**	100	100	150	170	200	225	250	375	470	550	650

(2) Maximum operational power corresponding to a current peak at switch-on of 30 In.



Standard contactors

Capacitors, together with the circuits to which they are connected, form oscillatory circuits which can, at the moment of switch-on, give rise to high transient currents (> 180 In) at high frequencies (1 to 15 kHz).
As a general rule, the peak current on energisation is lower when:

- the mains inductances are high
- the line transformer ratings are low
- the transformer short-circuit voltage is high
- the ratio between the sum of the ratings of the capacitors already switched into the circuit and that of the capacitor to be switched in is small (for multiple step capacitor banks).

In accordance with standards IEC 60070, NF C 54-100, VDE 0560, the switching contactor must be able to withstand a continuous current of 1.43 times the rated current of the capacitor bank step being switched.
The rated operational powers given in the tables below take this overload into account. Short-circuit protection is normally provided by gI type HPC fuses rated at 1.7 to 2 In.

Contactor applications

Operating conditions

Capacitors are directly switched. **The values of peak current at switch-on must not exceed the values indicated opposite.**
An inductor may be inserted in each of the three phases supplying the capacitors to reduce the peak current, if necessary. Inductance values are determined according to the selected operating temperature.

Power factor correction by a single-step capacitor bank

The use of a choke inductor is unnecessary: the inductance of the mains supply is adequate to limit the peak to a value compatible with the contactor characteristics.

Power factor correction by a multiple-step capacitor bank

Select a special contactor as defined on page B8/35 of TeSys Catalog, ref. MKTED210011EN.
If a standard contactor is used, it is essential to insert a choke inductor in each of the three phases of each step.

Maximum operational power of contactors

Standard contactors

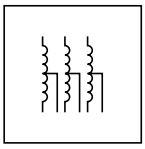
Maximum operating rate: 120 operating cycles/hour.
Electrical durability at maximum load: 100 000 operating cycles.
With choke inductors connected, where necessary.

Operational power at 50/60 Hz						Max. peak current	Contactor rating
θ ≤ 40 °C (1)			θ ≤ 55 °C (1)				
220/240 V	400/440 V	600/690 V	220/240 V	400/440 V	600/690 V		
kvAR	kvAR	kvAR	kvAR	kvAR	kvAR	A	
6	11	15	6	11	15	560	**LC1D09, D12**
9	15	20	9	15	20	850	**LC1D18**
11	20	25	11	20	25	1600	**LC1D25**
14	25	30	14	25	30	1900	**LC1D32, D38**
17	30	37	17	30	37	2160	**LC1D40**
22	40	50	22	40	50	2160	**LC1D50**
22	40	50	22	40	50	3040	**LC1D65**
35	60	75	35	60	75	3040	**LC1D80, D95**
50	90	125	38	75	80	2948	**LC1D115A**
60	110	135	40	85	90	3563	**LC1D150A**

(1) Upper limit of temperature category conforming to IEC 60070.

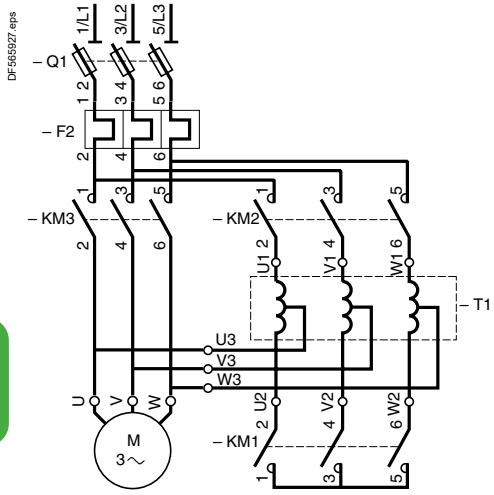
Operational power at 50/60 Hz						Max. peak current	Contactor rating
θ ≤ 40 °C (2)			θ ≤ 60 °C (2)				
220/240 V	400/440 V	600/690 V	220/240 V	400/440 V	600/690 V		
kvAR	kvAR	kvAR	kvAR	kvAR	kvAR	A	
50	90	150	45	80	135	1900	**LC1G115**
55	100	165	50	90	150	2480	**LC1G150**
60	110	185	55	100	165	3050	**LC1G185**
65	120	200	60	110	180	3710	**LC1G225**
75	140	235	70	125	210	4370	**LC1G265**
85	160	265	80	145	240	5450	**LC1G330**
110	200	335	100	185	305	6600	**LC1G400**
140	255	425	120	220	365	8250	**LC1G500**
210	385	640	160	295	485	10400	**LC1G630**
210	385	640	160	295	485	13200	**LC1G800**

(2) Upper limit of temperature category conforming to IEC 60831-1.

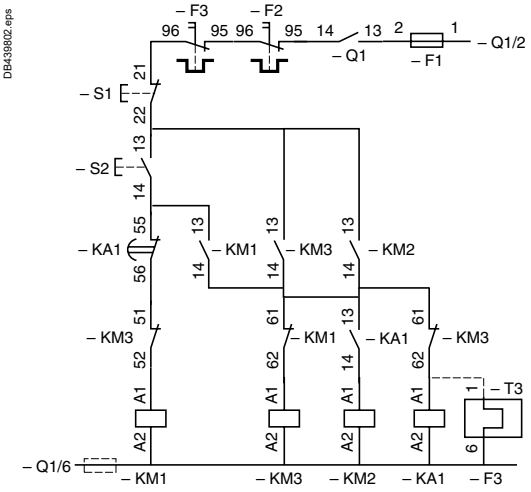


Applications

Auto-transformer starting is suitable for starting all types of squirrel cage motors: with 3, 6 or even 9 terminals according to North American technology.
Starting is performed at reduced voltage and produces maximum torque at minimum line current.
It allows the starting torque ($C = f(U)^2$) to be adapted to the resistive torque of the driven machine by means of the 2 or 3 intermediate voltage take-off connections on the auto-transformer (0.65 and 0.8 Un or 0.5, 0.65 and 0.8 Un). In general, only one take-off connection is used.
This type of starting is used for high power and/or high inertia machines.
The motor is never disconnected from its power supply during starting (closed transition) and transient phenomena are eliminated.



Recommended wiring scheme

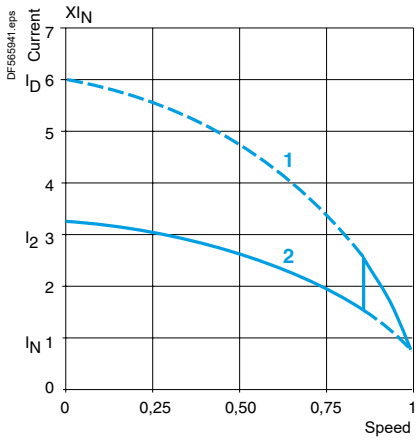


Operation

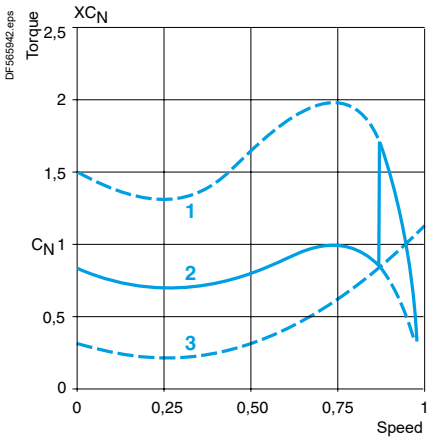
Starting is performed in 3 stages:
- star connection of the auto-transformer is made by KM1, then contactor KM2 closes and the motor starts under reduced voltage
- the neutral point is opened by KM1; part of the auto-transformer winding is switched into each phase for a short moment, constituting a stator starting inductance
- KM3 switches the motor to full mains voltage and causes the auto-transformer to be shunted out of circuit by KM2.

The auto-transformer used generally has an air gap (adjusted or not) in order to obtain, during the second phase of starting, a series inductance whose value is compatible with correct starting.

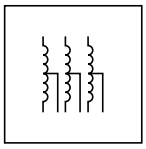
Operating curves



1 Direct switching current
2 Current with auto-transformer



1 Direct motor torque
2 Torque with auto-transformer
3 Resistive torque of the machine



Auto-transformer starters from 59 to 900 kW up to 440 V (type 1 coordination)

The components recommended in the table below have been determined according to the following characteristics:
- auto-transformer: on 0.65 Un connection with non adjusted air gap
- 3 starts per hour, of which 2 consecutive
- motor starting current: Id/In = 6
- Iq = 70 kA
- transient current on closing of KM3 ⩽ 7 $\sqrt{2}$ In
- maximum starting time: 30 seconds
- ambient temperature θ ⩽ 40 °C.

Switch-disconnector-fuses: operators and accessories, please consult your Regional Sales Office.
Contactors: 3-pole.
LC1D: please refer to pages B8/23 and B8/24 of TeSys Catalog, ref. MKTED210011EN.
LC1G: please refer to pages A2/10 to A2/13.

Auxiliary contact blocks:
- for contactors LC1D: one LADN11 (1 N/O + 1 N/C) on KM1.

Thermal overload relays:
- LR9D: please refer to page B11/10 of TeSys Catalog, ref. MKTED210011EN.
- LR9G: please refer to pages B11/13 and B11/14 of TeSys Catalog, ref. MKTED210011EN.

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3					Switch-disconnector -fuse Reference	aM fuse		Contactors			Overload relays	
						Size	Rating	KM3 LC1	KM2 LC1	KM1 LC1	Reference	Setting range
220/230 V kW	380/400 V kW	415 V kW	440 V kW	In max A			A					A
30	55	59	59	105	**GS●K**	22 x 58	125	D115A	D115A	D40A	LR9G115	28…115
40	75	80	80	138	**GS●L**	T0	160	D115A	D115A	D50A	LR9G225	56…225
51	90	90	100	170	**GS●N**	T1	200	D115A	D115A	D65A	LR9G225	56…225
63	110	110	110	205	**GS●N**	T1	250	D150A	D150A	D115A	LR9G225	56…225
75	132	132	150	245	**GS●N**	T1	250	D150A	D150A	D115A	LR9G500	125…500
90	160	160	185	300	**GS●QQ**	T2	315	G185	G185	G115	LR9G500	125…500
110	200	200	220	370	**GS●QQ**	T2	400	G225	G225	G115	LR9G500	125…500
140	250	257	280	460	**GS2S**	T3	500	G265	G265	G150	LR9G500	125…500
180	315	355	375	584	**GS2S**	T3	630	G400	G400	G185	LR9G630	157…630
200	355	375	400	635	**GS2S**	T4	800	G400	G400	G225	LR9G630	157…630
220	400	425	450	710	**GS2V**	T4	800	G500	G500	G265	LR9G630	157…630
250	450	475	500	800	**GS2V**	T4	800	G500	G500	G265	LR9G630	157…630

Applications

These contactors are used to eliminate starting resistance in the rotor circuit of slip-ring motors.

The most common application is for starters without inching and without rotor speed adjustment: pumps, fans, conveyors, compressors, ...

In the case of control by means of a manually operated master controller, the use of contactors with magnetic blow-out is recommended. Please consult your Regional Sales Office.

For hoisting applications, contactor selection must take into account the type of motor duty, the operating rate, the rotor voltage and current, the type of connection, the ambient temperature, etc.
Please consult your Regional Sales Office.

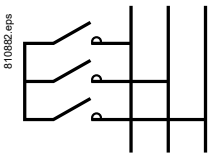
Operation

The rotor circuit contactors are interlocked with the stator contactor and therefore do not open until after the stator contactor has opened, when the rotor voltage has disappeared, or virtually disappeared.

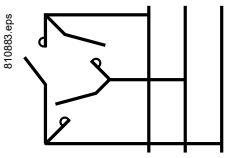
They make the current corresponding to the normal starting peak (1.5 to 2.5 times the rated rotor current) and open the circuit under no-load. Making and breaking are easy.

Different types of rotor connection

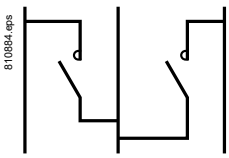
Star connection



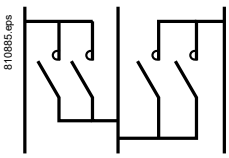
Delta connection



'V' connection



'W' connection



Contactor selection according to the type of connection

Rotor current and voltage coefficients

Coefficients to be applied to the operational current values shown in the table below.

Type of connection	Rotor I coefficient	3-phase rotor Ue (1)	
		Maximum	With counter-current
	Operational I	LC1G	LC1G
Star	1	2000 V	1000 V
Delta	1.4	1700 V	850 V
In V	1	1700 V	850 V
In W	1.6	1700 V	850 V

Selection according to the operational current

The selection examples below take into account:

- a ratio of 2 between the maximum operational rotor voltage (Uer) and the rated stator operational voltage (Ues). This ratio is given in standard IEC 60947-4,
- a guarantee of occasional duty (making and breaking capacities) specified in the above standards.

Time current flowing	Contactor rating LC1 G150	LC1 G185	LC1 G265	LC1 G400	LC1 G500	LC1 G630	LC1 G800
Intermediate contactor: with number of operating cycles ≤ 30/h							
10 s	450 A	550 A	800 A	1100 A	1500 A	2000 A	2500 A
30 s	280 A	400 A	550 A	730 A	1000 A	1500 A	2000 A
60 s	220 A	300 A	400 A	550 A	750 A	1200 A	1500 A
Intermediate contactor: with number of operating cycles ≤ 60/h							
5 s	450 A	550 A	800 A	1100 A	1500 A	2000 A	2500 A
10 s	330 A	450 A	620 A	860 A	1250 A	1800 A	2300 A
30 s	220 A	300 A	400 A	550 A	750 A	1200 A	1500 A
Intermediate contactor: with number of operating cycles ≤ 150/h							
5 s	300 A	420 A	580 A	820 A	1150 A	1650 A	2200 A
10 s	250 A	350 A	430 A	600 A	850 A	1300 A	1600 A
Rotor short-circuit contactor and intermediate contactor: with number of operating cycles > 150/h							
–	200 A	270 A	350 A	500 A	700 A	1000 A	1600 A
Electrical durability							
For automatic starting, the electrical durability is in the region of 1 million operating cycles.							

(1) For use up to 3000 V, please consult your Local Schneider Electric Technical Support.

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Schneider Electric Industries SAS

35, rue Joseph Monier
CS 30323
92506 Rueil Malmaison Cedex
France

RCS Nanterre 954 503 439
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www.se.com

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