

REVERSING CONTACTOR 575VAC 9A IEC

Local distributor code: 381822583 LC2D09BL

Main

Main						
Range	TeSys TeSys Deca					
Product name	TeSys D TeSys Deca					
Product or component type	Reversing contactor					
Device short name	LC2D					
Contactor application	Resistive load Motor control					
Utilisation category	AC-3 AC-1					
Device presentation	Preassembled with reversing power busbar					
Poles description	3P					
Power pole contact composition	3 NO					
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC					
[le] rated operational current	9 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 25 A (at <60 °C) at <= 440 V AC AC-1 for power circuit					
Motor power kW	2.2 kW at 220230 V AC 50 Hz 4 kW at 380400 V AC 50 Hz 4 kW at 415440 V AC 50 Hz 5.5 kW at 500 V AC 50 Hz 5.5 kW at 660690 V AC 50 Hz					
Motor power HP (UL / CSA)	0.5 hp at 115 V AC 60 Hz for 1 phase motors 1 hp at 230/240 V AC 60 Hz for 1 phase motors 2 hp at 200/208 V AC 60 Hz for 3 phases motors 2 hp at 230/240 V AC 60 Hz for 3 phases motors 5 hp at 460/480 V AC 60 Hz for 3 phases motors 7.5 hp at 575/600 V AC 60 Hz for 3 phases motors					
Control circuit type	DC low consumption					
[Uc] control circuit voltage	24 V DC					
Auxiliary contact composition	1 NO + 1 NC					
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947					
Overvoltage category	III					
[Ith] conventional free air thermal current	10 A (at 60 °C) for signalling circuit 25 A (at 60 °C) for power circuit					
Irms rated making capacity	250 A at 440 V for power circuit conforming to IEC 60947 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1					
Irms rated making capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1					

Rated breaking capacity	250 A at 440 V for power circuit conforming to IEC 60947					
[Icw] rated short-time withstand current	30 A 40 °C - 10 min for power circuit 61 A 40 °C - 1 min for power circuit 105 A 40 °C - 10 s for power circuit 210 A 40 °C - 1 s for power circuit 100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit					
Associated fuse rating	25 A gG at <= 690 V coordination type 1 for power circuit 20 A gG at <= 690 V coordination type 2 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1					
Average impedance	2.5 mOhm - Ith 25 A 50 Hz for power circuit					
[Ui] rated insulation voltage	Power circuit: 690 V conforming to IEC 60947-4-1 Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Signalling circuit: 690 V conforming to IEC 60947-1 Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified					
Electrical durability	0.6 Mcycles 25 A AC-1 at Ue <= 440 V 2 Mcycles 9 A AC-3 at Ue <= 440 V					
Power dissipation per pole	0.2 W AC-3 1.56 W AC-1					
Front cover	With					
Interlocking type	Mechanical					
Mounting support	Rail Plate					
Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 IEC 60335-1					
Product certifications	DNV CSA CCC UL GL LROS (Lloyds register of shipping) BV RINA GOST UKCA					
Connections - terminals	Power circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 14 mm²solid Power circuit: screw clamp terminals 2 cable(s) 14 mm²solid Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid					
Tightening torque	Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver pozidriv No 2					
Operating time	65.4588.55 ms closing 2030 ms opening					
Safety reliability level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1					
Mechanical durability	30 Mcycles					
Maximum operating rate	3600 cyc/h 60 °C					
0						
Complementary Coil technology	Built in hidirectional peak limiting diode suppressor					

Built-in bidirectional peak limiting diode suppressor

Coil technology

Control circuit voltage limits	0.10.3 Uc (-4070 °C):drop-out DC 0.81.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC					
Time constant	40 ms					
Inrush power in W	2.4 W (at 20 °C)					
Hold-in power consumption in W	2.4 W at 20 °C					
Auxiliary contacts type	type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1					
Signalling circuit frequency	25400 Hz					
Minimum switching current	5 mA for signalling circuit					
Minimum switching voltage	17 V for signalling circuit					
Non-overlap time	1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact					
Insulation resistance	> 10 MOhm for signalling circuit					
Environment						
IP degree of protection	IP20 front face conforming to IEC 60529					
Climatic withstand	conforming to IACS E10 conforming to IEC 60947-1 Annex Q category D					
Protective treatment	TH conforming to IEC 60068-2-30					
Pollution degree	3					
Ambient air temperature for operation	-40…60 °C 60…70 °C with derating					
Ambient air temperature for storage	-6080 °C					
Operating altitude	03000 m					
Fire resistance	850 °C conforming to IEC 60695-2-1					
Flame retardance	V1 conforming to UL 94					
Mechanical robustness	Vibrations contactor open: 2 Gn, 5300 Hz Vibrations contactor closed: 4 Gn, 5300 Hz Shocks contactor open: 10 Gn for 11 ms Shocks contactor closed: 15 Gn for 11 ms					
Height	77 mm					
Width	90 mm					
Depth	95 mm					
Net weight	1.017 kg					
Packing Units						
Unit Type of Package 1	PCE					
Number of Units in Package 1	1					
Package 1 Weight	1.145 kg					
Package 1 Height	9.5 cm					
Package 1 width	11.5 cm					
Package 1 Length	13.8 cm					
Unit Type of Package 2	S02					
Number of Units in Package 2	6					
Package 2 Weight	7.241 kg					
Package 2 Height	15 cm					

Package 2 width	30 cm
Package 2 Length	40 cm
Unit Type of Package 3	P06
Number of Units in Package 3	96
Package 3 Weight	126.18 kg
Package 3 Height	77 cm
Package 3 width	60 cm
Package 3 Length	80 cm

Offer Sustainability

Sustainable offer status	Green Premium product REACh Declaration				
REACh Regulation					
EU RoHS Directive	Compliant EU RoHS Declaration				
Toxic heavy metal free	Yes				
Mercury free	Yes				
RoHS exemption information	Yes				
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information				
Environmental Disclosure	Product Environmental Profile				
Circularity Profile	End of Life Information				
PVC free	Yes				

Contractual warranty

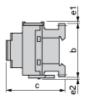
Warranty	18 months

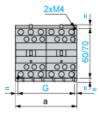
Product datasheet

LC2D09BL

Dimensions Drawings

Dimensions





LC2 or 2 x LC1	а	b	c ⁽¹⁾	e1	e2	G
D09 to D18 (AC)	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)	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
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e1 and e2: including cabling.

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

Product datasheet

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Connections and Schema

Wiring

