Light Commercial Power Distribution

Industry proven mid-market products offering fast and easy installation, safe circuit protection, and fewer connections

se.com/uk

Life Is On Schneider Electric

Get the support you need…
When you need it!

Our mySchneider app provides 24/7, immediate access to technical and support information;

> Browse FAQs for instant answers
> Search product references and download datasheets
> Browse mySchneider for delivery and price updates *

Download the app today,
Search 'mySchneider' on your app store

Available on the iPhone App Store

ANDROID APP ON Google play

Life Is On | Schneider Electric

*Registered mySchneider account holders only

Contents


ATEPO

Essential Solutions
for Light Commercial projects

Industry proven mid-market products that offer fast and easy installation, safe and reliable circuit protection, and fewer connections.

As a leader in energy management, Schneider Electric are proud to offer a suite of electrical distribution products for Light Commercial applications. Schneider Electric's I-Line Panelboards, KQ Loadcentre distribution boards and Easy9 final circuit protection are now available from all major UK distributors. These support commercial installations for businesses, residential buildings, schools and public buildings, and high-end property installations.

Our ranges all include high levels of safe circuit protection for overloads, earth faults and short circuits. The 'out of the box' products are ready to install to ensure speed of installation and uses fewer terminations, whilst maintaining a high standard of reliability. This reduces installation time and saves time during routine electrical installation checks. In addition, the facility to include metering equipment housed within the distribution boards provides visibility of where energy is used and potentially wasted.

Now available as flexible and scalable solutions designed to meet the unique specifications for small and medium buildings, these products are perfect for electrical contractors involved with residential to light commercial installations, where reliability, safety, and value for money are critical.

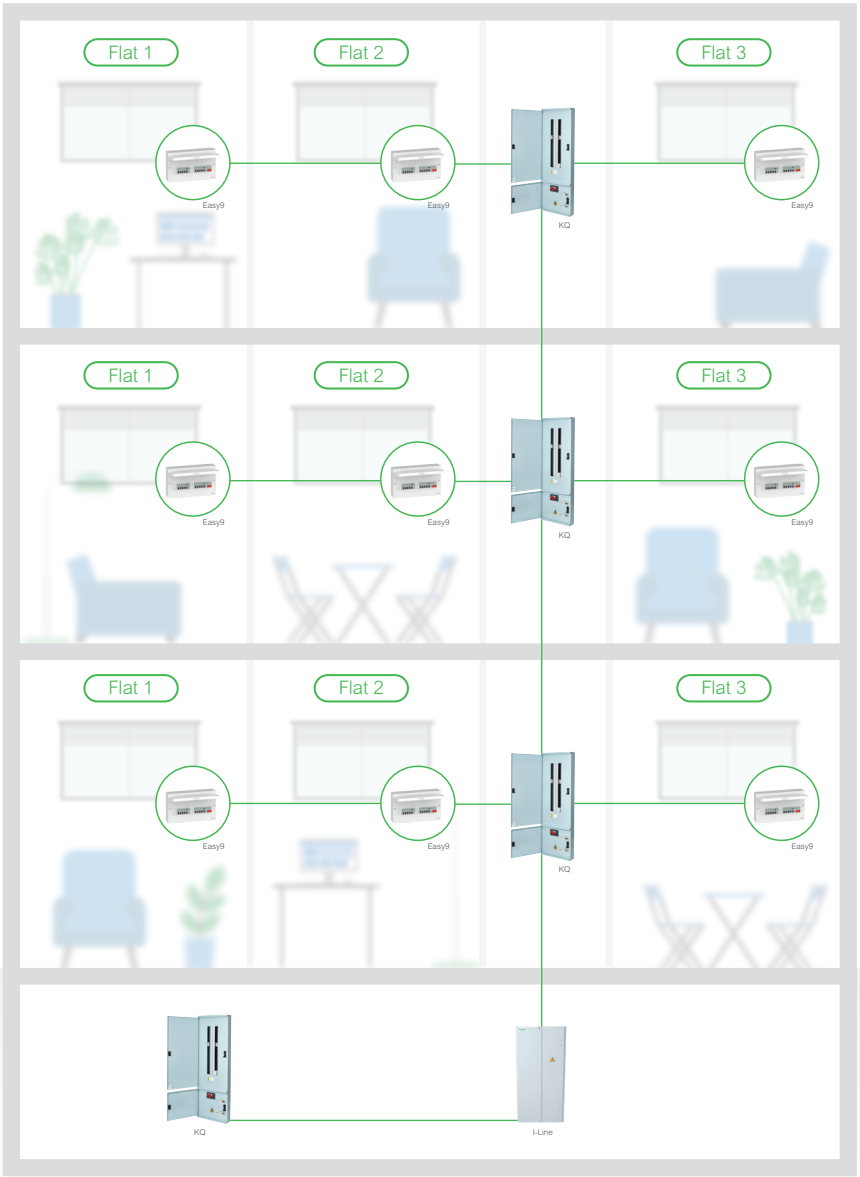
Light Commercial: Circuit Protection

Scan to watch our E2E light commercial offer come to life!

The below graphic outlines a basic example of how our full Light Commercial circuit protection offering could be utilised within a small residential block of flats.

This is only one example, other uses could include:

- SMEs (Small and medium-sized enterprises)
- Residential buildings
- Schools
- Public buildings
- High-end property installations



I-Line Panel Boards

Available in three ratings (250A, 400A, and 630A) with different size options allowing single and triple pole devices to be selected as outgoing options. Suitable for both industrial and commercial installations and compliant with building regulations, the units are prefabricated and can be mounted quickly. The I-Line plug-on system makes it simple to install and fit correctly with reliable connections so that the board is ready for cabling. Safe circuit protection is standard on all I-Line products.

KQ Loadcentre Distribution Boards

The KQ product range is a well-established, 3-phase electrical distribution system that will cater for most installations. The KQ loadcentre with metering options features a modular and flexible approach that can be deployed as a single distribution board, or as multiple boards that make up a more complex system. It has a comprehensive range of devices that support any number of applications. It's quick and easy to install and equipped with safe circuit protection measures.

Metering

The PowerLogic PM5000 series power meters are the new benchmark in affordable, precision metering. It is the ideal fit for high-end cost management applications, providing the measurement capabilities needed to allocate energy usage, perform tenant metering and sub-billing, pin-point energy savings, optimise equipment efficiency and utilisation. As well as perform a high-level assessment of the power quality in an electrical network.

Easy9 Plus, Compact and Multirow Consumer Units

Available in a range of sizes for multiple applications: **Easy**9+ is our premium designed consumer unit ideal for new builds. **Easy**9 Compact is designed for all standard household requirements and retrofit applications. **Easy**9 Multirow supports higher density circuits for larger residential buildings and properties, and allows for futureproofing the installation for additional protection, the versatile two or three row formats are able to support more devices.

Easy9 Plus, **Easy**9 Compact and **Easy**9 Multirow units are simple and easy to install, offering full circuit protection.

Panelboards

I-Line MCCB

I-Line MCCB panelboards Size 1 250A

Size 1 250/400A panelboards

- Single sided to give best possible space utilisation
- Incomers can be mounted at the top or bottom of the panelboard
- Ample cabling space
- I-Line Busbar System
- Degree of protection IP3X
- Hinged lift off cable way cover
- MCCB separation to form 3b Type 2 BS EN 61439-1
- Fully rated earth and neutral bars
- Simple ordering
- Removable top and bottom gland plates
- Busbar rating 50ka for 1s

Step 1 Select panelboard required

Description	Modules	Reference number 250A
6 triple pole outgoing ways	18	MP25061
12 triple pole outgoing ways	36	MP250121

Step 2 Select incoming device

250A	Reference number
250A 36kA triple pole MCCB	IL2503P36
160A automatic switch disconnector (isolator)	IL1603PSW
250A automatic switch disconnector (isolator)	IL2503PSW
225A plug on lug unit	SL225

Step 3 Select outgoing devices

Single pole MCCB's are phase dedicated.
To obtain correct reference add suffix as below example:
40A SP MCCB to fit L3 will be IL0401P253

MCCB

16A - 100A 25kA with TMD Protection	Single Pole (1 Mod)	Suffix		
		L1	L2	L3
16A	IL0161P25	1	2	3
20A	IL0201P25			
30A	IL0301P25			
40A	IL0401P25			
50A	IL0501P25			
63A	IL0631P25			
80A	IL0801P25			
100A	IL1001P25			

I-Line MCCB panelboards Size 1 250A

Step 3 Select outgoing devices cont.				
Triple pole (3 mods)			Additional tunnel terminals	Acceptable cable size
TMD Protection	25kA	36kA	Reference No.	
16A	IL0163P25	IL0163P36	LV429242	1.5-95mm
25A	IL0253P25	IL0253P36		
32A	IL0323P25	IL0323P36		
40A	IL0403P25	IL0403P36		
50A	IL0503P25	IL0503P36		
63A	IL0633P25	IL0633P36		
80A	IL0803P25	IL0803P36		
100A	IL1003P25	IL1003P36		
125A		IL1253P36		
160A		IL1603P36		
200A		IL2003P36	LV429259	120-185mm
250A		IL2503P36	LV429227	25-95mm
Micrologic 2.2 Protection				
160A		IL1603P36ML2	LV429242	1.5-95mm
250A			LV429259	120-185mm
			LV429227	25-95mm

Step 4 Select metering

The I-Line Panelboard product range has been enhanced to include the facility to meter incoming and outgoing circuits (only incoming metering is available on the Size 1 250A). This enables contractors to easily and simply meet the requirements of Part L2a of the Building Regulations. These metering kits allow great flexibility in the choice of meter and also in the configuration of the boards.

Incoming metering

This metering kit is for the incoming supply to the board. It comprises an extension box that can be fitted to the top or the bottom of a standard board. This box contains a three-phase block current transformer, fuses for the voltage supply and a METSEPM5110 multi-function meter. Because the main incoming cables pass through this enclosure it is not suitable for a retrofit. The kit comes complete: no other parts are required to install this metering kit.

Reference number	Incoming	Metering	Note
MPME2501	250A	top/bottom metering extension box	200mm High

I-Line MCCB panelboards Size 1 250A

Step 5 Select accessories			
Panelboard		MP25061	MP250121
Blanking plates for all unused ways			
	Single pole	HNM1BL	HNM1BL
	Triple pole	HNM4BL	HNM4BL
Top / bottom extension box			
	226mm high	EXS91	EXS91
Incomer padlocking device			
	160-250A	29370	29370

I-Line MCCB panelboards Size 1 400A

Size 1 400A panelboards

- Single sided to give best possible space utilisation
- Incomers can be mounted at the top or bottom of the panelboard
- Ample cabling space
- I-Line busbar
- Degree of protection IP3X
- Hinged lift off cable way cover
- MCCB separation to form 3b Type 2 BS EN 61439-1
- Fully rated earth and neutral bars
- Simple ordering
- Removable top and bottom gland plates
- Busbar rating 50ka for 1s

Step 1 Select panelboard required

Description	Modules	Reference number 400A
4 triple pole outgoing ways	12	MP40041
7 triple pole outgoing ways	21	MP40071
12 triple pole outgoing ways	36	MP400121

Step 2 Select incoming device

250*	Reference number
250A 36kA triple pole MCCB	IL2503P36
160A automatic switch disconnector (isolator)	IL1603PSW
250A automatic switch disconnector (isolator)	IL2503PSW
225A plug on lug unit	SL225
400A	
400A 36kA triple pole MCCB	SLA3400
400A automatic switch disconnector (isolator)	SLA3000M
*Trim, required when 250A incomer fitted	TKA4, TKA7, TKA12

Step 3 Select outgoing devices

Single pole MCCB's are phase dedicated.
To obtain correct reference add suffix as below example:
40A SP MCCB to fit L3 will be IL0401P253

MCCB

16A - 100A 25kA with TMD Protection	Single Pole (1 Mod)	Suffix		
		L1	L2	L3
16A	IL0161P25	1	2	3
20A	IL0201P25			
30A	IL0301P25			
40A	IL0401P25			
50A	IL0501P25			
63A	IL0631P25			
80A	IL0801P25			
100A	IL1001P25			

I-Line MCCB panelboards Size 1 400A

Step 3 Select outgoing devices cont.				
Triple pole (3 mods)			Additional tunnel terminals	Acceptable cable size
TMD Protection	25kA	36kA	Reference No.	
16A	IL0163P25	IL0163P36	LV429242	1.5-95mm
25A	IL0253P25	IL0253P36		
32A	IL0323P25	IL0323P36		
40A	IL0403P25	IL0403P36		
50A	IL0503P25	IL0503P36		
63A	IL0633P25	IL0633P36		
80A	IL0803P25	IL0803P36		
100A	IL1003P25	IL1003P36		
125A		IL1253P36		
160A		IL1603P36		
200A		IL2003P36	LV429259	120-185mm
250A		IL2503P36	LV429227	25-95mm
Micrologic 2.2 Protection				
160A		IL1603P36ML2	LV429242	1.5-95mm
250A			LV429259	120-185mm
			LV429227	25-95mm

Step 4 Select metering

The I-Line Panelboard product range has being enhanced to include the facility to meter incoming and outgoing circuits. This enables contractors to easily and simply meet the requirements of Part L2a of the Building Regulations. These metering kits allow great flexibility in the choice of meter and also in the configuration of the boards.

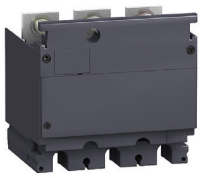
Outgoing metering

A standard board can be adapted to meter the incoming supply and some or all of the outgoing circuits by the addition of three components. These components are:

1. Select metering kit

This contains a replacement wireway door with 96mm sq cutouts for the number of outgoing ways of the board plus one. This additional cutout is to meter the incoming supply as required. Blanking plates are supplied for unused meter positions. One door kit per board.

Size 1 400A Reference number		Note
MPMK104	4 way I-Line metering kit	5 cut-outs
MPMK107	7 way I-Line metering kit	8 cut-outs
MPMK112	12 way I-Line metering kit	13 cut-outs



2. Select metering CT set for each 3P MCCB to be monitored

One kit for each circuit to be measured. The kit will comprise a three phase CT block, mounting plate and cable loom. The CT blocks fit to the breakers. The CT size and ratio matches the breaker.

Reference number		CT ratio
MPCT125	IL Frame breaker	125/5
MPCT250	IL Frame breaker	250/5
MPCT400	IL frame breaker	400/5

3. Select PowerLogic meters for each circuit to be measured*

Reference number	
METSEPM5100	PM5100 Meter, without communication, up to 15th H, 1DO 33 alarms
METSEPM5110	PM5110 Meter, modbus, up to 15th H, 1DO 33 alarms
METSEPM5111	PM5111 Meter, modbus, up to 15th H, 1DO 33 alarms, MID

*Other meters are available from our Power Logic range

I-Line MCCB panelboards Size 1 400A

Step 5 Select accessories			
Panelboard	MP40041	MP40071	MP400121
Blanking plates for all unused ways			
Single pole	HNM1BL	HNM1BL	HNM1BL
Triple pole	HNM4BL	HNM4BL	HNM4BL
Side extension box			
550mm wide	EXMS827	EXMS1170	EXMS1742
Top / bottom extension box			
379mm high	EXS151	EXS151	EXS151
Incomer padlocking device			
160-250A	29370	29370	29370
400A	HPALM	HPALM	HPALM
Terminal shields x 2 See page 21			
Plug-on metering kit for incoming supply - occupies 4 modules			
* Digital, multi function meter	MP400kW	MP400kW	MP400kW
Weight in kg	44	74	100
Overall dimensions H x W x D	827x680x258	1170x680x258	1742x680x258
Fixing centres	533	876	1448

*Contains A9MEM3255 meters.

I-Line MCCB panelboards Size 2 630A

Size 2 630A panelboards

- Degree of protection IP3X
- Door lock fitted as standard
- Ample cabling space
- I-Line busbar
- Removable neutral link
- Hinged lift off cable way covers
- MCCB separation to form 3b Type 2 BS EN 61439-1
- Fully rated earth and neutral bars
- Removable top and bottom gland plates
- Simple ordering
- Maximum outgoers 250A
- Busbar rating 50ka for 1s

Step 1 Select panelboard required

Description	Modules	Reference number 630A
6 triple pole outgoing ways	9+9	MP63062
10 triple pole outgoing ways	15+15	MP630102
14 triple pole outgoing ways	21+21	MP630142
18 triple pole outgoing ways	27+27	MP630182

Step 2 Select incoming device

	Reference number
250A 36kA triple pole MCCB	SLA3250
400A 36kA triple pole MCCB	SLA3400
400A automatic switch disconnector (isolator)	SLA3000M
600A 50kA triple pole MCCB	PJA36060CU31A
600A automatic switch disconnector (isolator)	PJA36000S60
630A main lugs kit	ML630

Step 3 Select outgoing devices

Single pole MCCB's are phase dedicated.
To obtain correct reference add suffix as below example:
40A SP MCCB to fit L3 will be IL0401P253

MCCB

16A - 100A 25kA with TMD Protection	Single Pole (1 Mod)	Suffix		
		L1	L2	L3
16A	IL0161P25	1	2	3
20A	IL0201P25			
30A	IL0301P25			
40A	IL0401P25			
50A	IL0501P25			
63A	IL0631P25			
80A	IL0801P25			
100A	IL1001P25			

I-Line MCCB panelboards Size 2 630A

Step 3 Select outgoing devices cont.				
Triple pole (3 mods)			Additional tunnel terminals	Acceptable cable size
	25kA	36kA	Reference No.	
16A	IL0163P25	IL0163P36	LV429242	1.5-95mm
25A	IL0253P25	IL0253P36		
32A	IL0323P25	IL0323P36		
40A	IL0403P25	IL0403P36		
50A	IL0503P25	IL0503P36		
63A	IL0633P25	IL0633P36		
80A	IL0803P25	IL0803P36		
100A	IL1003P25	IL1003P36		
125A		IL1253P36		
160A		IL1603P36		
200A		IL2003P36	LV429259	95-185mm
250A		IL2503P36		
Micrologic 2.2 Protection				
160A		IL1603P36ML2	LV429242	1.5-95mm
250A		IL2503P36ML2	LV429259	95-185mm

I-Line MCCB panelboards Size 2 630A

Step 4 Select metering

The I-Line Panelboard product range has been enhanced to include the facility to meter incoming and outgoing circuits. This enables contractors to easily and simply meet the requirements of Part L2a of the Building Regulations. These metering kits allow great flexibility in the choice of meter and also in the configuration of the boards.

A standard board can be adapted to meter the incoming supply and some or all of the outgoing circuits by the addition of three components.
These components are:

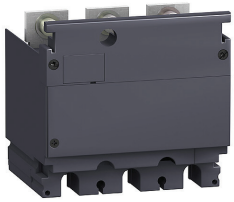
1. Select metering kit

This contains a replacement wireway door with 96mm sq cutouts for the number of outgoing ways of the board plus one. This additional cutout is to meter the incoming supply as required. Blanking plates are supplied for unused meter positions. One door kit per board.

Size 2 630A Reference number		Note
MPMK206	6 way I-Line metering kit	7 cut-outs
MPMK210	10 way I-Line metering kit	11 cut-outs
MPMK214	14 way I-Line metering kit	15 cut-outs
MPMK218	18 way I-Line metering kit	19 Cut-outs

2. Select metering CT set for each MCCB to be monitored

One kit for each circuit to be measured. The kit will comprise a three phase CT block, mounting plate and cable loom. The CT blocks fit to the breakers. The CT size and ratio matches the breaker.



Reference number		CT ratio
MPCT125	IL Frame breaker	125/5
MPCT250	IL Frame breaker	250/5
MPCT400 *	L frame breaker	400/5
MPCT600 *	M & P frame breakers	600/5

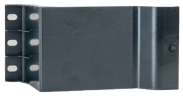
* Standalone CT - Does not fasten directly to device

3. Select PowerLogic meters for each circuit to be measured*

Reference number	
METSEPM5100	PM5100 Meter, without communication, up to 15th H, 1DO 33 alarms
METSEPM5110	PM5110 Meter, modbus, up to 15th H, 1DO 33 alarms
METSEPM5111	PM5111 Meter, modbus, up to 15th H, 1DO 33 alarms, MID

*Other meters are available from our Power Logic range

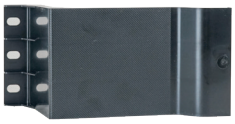
I-Line MCCB panelboards Size 2 630A



Step 5 Select accessories					
Panelboard		MP63062	MP630102	MP630142	MP630182
Blanking plates for all unused ways					
	Single pole	HNM1BL	HNM1BL	HNM1BL	HNM1BL
	Triple pole	HNM4BL	HNM4BL	HNM4BL	HNM4BL
Side extension box	550mm wide	EXMS53	EXMS62	EXMS71	EXMS80
Top / bottom extension box	226mm high	EXS29	EXS29	EXS29	EXS29
Corner unit, to complete enclosure when top/bottom and side extension are both fitted					
		MSIL636	MSIL636	MSIL636	MSIL636
Terminal shields x 2 See page 21					
Integral metering kit for incoming supply					
	* Digital, multi function meter				
	400A	400kW	400kW	400kW	400kW
	630A	630kW	630kW	630kW	630kW
Weight in kg		112	128	145	164
Overall dimensions H x W x D		1350x1100x258	1579x1100x258	1807x1100x258	2036x1100x258

*Contains A9MEM3255 meters.

I-Line MCCB panelboards Panelboard accessories



Blanking plates

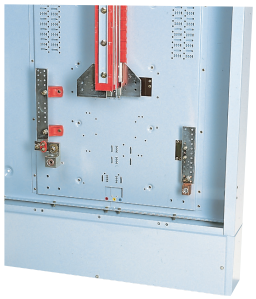
Suitable for all sizes of panelboard, blanking plates must be fitted in all unoccupied outgoing ways to maintain appropriate busbar shrouding.

Side extension boxes

Supplied with a hinged door, side extension boxes may be used to provide additional wiring space or fitting of control equipment.

Side extension boxes can be fitted to either side of the panelboard and may be coupled together to form larger units.

Box width
400A, 630A boards: 550mm.



Top/bottom extension boxes

Supplied with a flat front plate, the extension box provides additional cable spreading space.

Box heights
250A: 226mm.
400A: 380mm.
630A: 226mm.

Corner units are available to ‘square off’ a board when a side and a top/bottom extension box are fitted.

I-Line MCCB panelboards Panelboard accessories

Termination bars

Solid brass terminal bars provide tunnel terminals. Main neutral and earth bars are pre-drilled to accept the termination bars indicated. Bars suitable for size 1 and 2.

Reference number	Number of ways	Conductor size
NE916	9	25
NE950	9	50
NE13150	13	150

MCCB locking devices

Provide facilities for padlocking MCCB's.

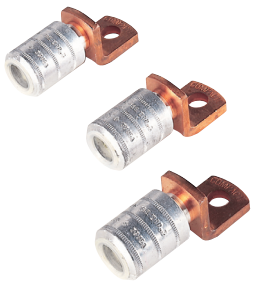
Frame	Reference number	Facility	Padlocks
IL	HPAFK	On/Off	1
SLA	HPALM	Off	1
PJA	44936	Off	1

I-Line MCCB panelboards MCCB accessories

Cable clamp terminals

Triple pole IL MCCB's are supplied with bolt connections. Field fitted terminals.

Reference number		
16 - 160A	LV429242 set of 3	1.5 - 95mm^2
160 - 250A	LV429227 set of 3	25-95mm
200 - 250A	LV429259 set of 3	120-185mm^2



Crimp cable lugs

Special lugs for fitting oversized cables to IL MCCB's

Reference number		
LV429252 set of 3	120mm^2	Copper
LV429253 set of 3	150mm^2	Copper
LV429254 set of 3	185mm^2	Copper
LV429504 set of 3	150mm^2	Aluminium
LV429506 set of 3	185mm^2	Aluminium

Required for oversized cables only.

Terminal shields

	Reference number	Quantity
IL short (15mm)	LV429515	1
IL long (80mm)	LV429517X	1

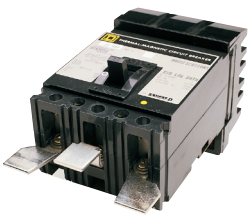
Use short terminal shields with tunnel terminals.
Use long terminal shields with crimp terminals.

* No terminal shields available for PJA and SLA devices

Handle extension

For use in providing extra leverage when operating larger frame I-Line MCCB's.

	Reference number
PJA frame	46996



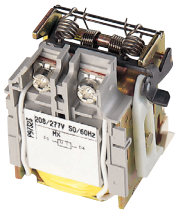
Terminal extension pads

3 plated copper pads to which crimp type lugs may be fastened (unshrouded).

	Reference number
IL frame	LV431563
PJA	PJATK3

The pads require an air gap of 25mm between them and adjacent MCCB's the use of an HNM1BL either side of the MCCB will provide the necessary spacing.
Standard terminal shields will not fit IL Frames when terminal extension pads are added.

I-Line MCCB panelboards MCCB accessories

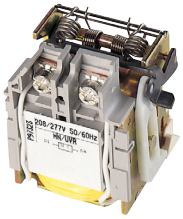


Shunt trip (ST)

Energisation of shunt trip coil will initiate MCCB tripping.

IL	Connection terminals accept wires up to 1.5mm^2
SL	Supplied with 1mm^2 flying leads

Field installable.



Under voltage release (UVR)

The coil must be energised before the MCCB can be switched on.

IL	Connection terminals accept wires up to 1.5mm^2
SL	Supplied with 1mm^2 flying leads

Field installable.

Auxiliary switches (aux)

Change over contacts indicate MCCB contact position.
For IL may be used as an alarm switch.

IL	Connection terminals accept wires up to 1.5mm^2
SL	Supplied with 1mm^2 flying leads

Field installable.

Order references

Description	IL	SLA
Shunt trip 110/130V 50Hz	LV429386	–
Shunt trip 200/240V 50Hz	LV429387	–
Shunt trip 120/240V 50Hz	–	LA11021
Shunt trip 24V dc	LV429390	LA11027
Under voltage release 110/130V 50Hz	LV429406	
Under voltage release 200/240V 50Hz	LV429407	
Under voltage release 24V dc	LV429410	
Auxiliary switch 1 change over contact	29450	LA11212
Auxiliary switch 2 change over contact	29450 x 2	

Lug unit

To sub-feed power from, or into the busbar stack. Current rating of plug-on lug must be equal to or greater than the incoming protective device.

Reference number	Rating	Modules	Terminal capacity mm^2
SL225	225A	3	185
SL400	400A	4	300

I-Line MCCB panelboards Metering facilities

Metering facilities

The I-Line Panelboard product range has been enhanced to include the facility to meter incoming and outgoing circuits. This enables contractors to easily and simply meet the requirements of Part L2a of the Building Regulations. These metering kits allow great flexibility in the choice of meter and also in the configuration of the boards. The metering arrangement varies depending on the size of board.

For the Size 1 250A board there is an extension box which may be fitted to the top or bottom of a board to meter the incoming supply.

For Size 1 400A and Size 2 boards, components are provided to meter some or all outgoing ways and/or the incoming supply.

Currently most boards have incoming metering kits. These new kits may be used as well as, or instead of these existing arrangements.

Size 1 250A boards

This metering kit is for the incoming supply to the board. It comprises an extension box that can be fitted to the top or the bottom of a standard board. This box contains a three-phase block current transformer, fuses for the voltage supply and a METSEPM5110 multi-function meter. Because the main incoming cables pass through this enclosure it is not suitable for a retrofit. The kit comes complete: no other parts are required to install this metering kit.

Size 1 (250A)
Reference number MPME2501 250A top/bottom metering extension box

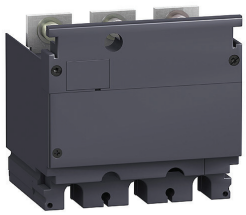
Size 1 (400A), Size 2 and Panelboards
A standard board can be adapted to meter the incoming supply and some, or all of the outgoing circuits by the addition of three components.

These components are
1. Metering kit. This contains a replacement wireway door with 96mm sq cutouts for the number of outgoing ways of the board plus one. This additional cutout is to meter the incoming supply as required. Blanking plates are supplied for unused meter positions. One door kit per board.
2. Current transformer kit. One kit for each circuit to be measured. The kit will comprise a three phase CT block, mounting plate and cable loom. The CT blocks fit to the breakers. The CT size and ratio matches the breaker.
3. The multi-function meter for each circuit to be measured. The meter is selected from the Schneider Electric Power Meter range. See below for details.

Size 1 400A		
Reference number		No. of Meters
MPMK104	4 way I-Line metering kit	5
MPMK107	7 way I-Line metering kit	8
MPMK112	12 way I-Line metering kit	13

Size 2 630A		
Reference number		No. of Meters
MPMK206	6 way I-Line metering kit	7
MPMK210	10 way I-Line metering kit	11
MPMK214	14 way I-Line metering kit	15
MPMK218	18 way I-Line metering kit	19

I-Line MCCB panelboards Metering facilities



Outgoing Metering CT set for each MCCB to be monitored		
Reference number		CT ratio
MPCT125	IL frame breaker	125/5
MPCT250	IL frame breaker	250/5
MPCT400	L frame breaker	400/5
MPCT600	M & P frame breakers	600/5

* Standalone CT - Does not fasten directly to device

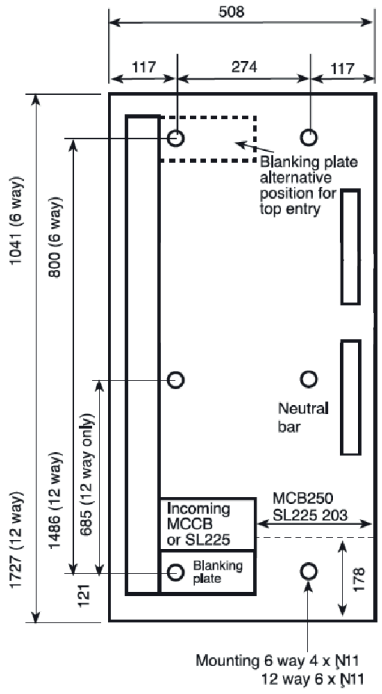
Blank metering plates	
Reference number	
LVS03908	96mm sq blanking plate

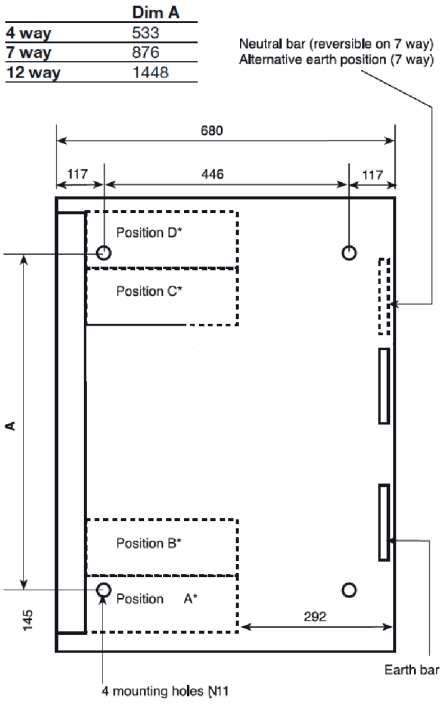
PowerLogic meters	
Reference number	
METSEPM5100	PM5100 Meter, without communication, up to 15th H, 1DO 33 alarms
METSEPM5110	PM5110 Meter, modbus, up to 15th H, 1DO 33 alarms
METSEPM5111	PM5111 Meter, modbus, up to 15th H, 1DO 33 alarms, MID

Panelboards - I-Line MCCB panelboards Size 1

Earth and Neutral bars	
Earth bonding connection	M6 bolt
Earth bar connection holes	14x6.5Ø, 2x8.5Ø, 3x10.5Ø, 3x3.9Ø
Main neutral connection	
Neutral bar connection holes	

Size 1 250A Depth: 184	Size 1 400A Depth: 258

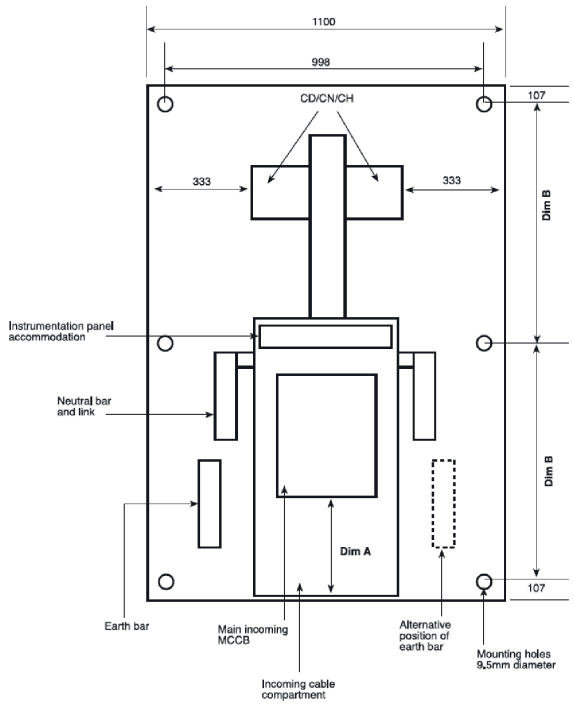




Panelboards - I-Line MCCB panelboards Size 2

Earth and Neutral bars	
Earth bonding connection	M10 bolt
Earth bar connection holes	
6 way & 10 way boards	10 x 7. 1Ø, 3 x 3.7Ø
14 way & 18 way boards	20 x 7.1Ø, 1 x 11.5Ø, 6 x 3.7Ø
Main neutral connection	M12 bolt
Neutral bar connection holes	14 x 8Ø, 10 x 6Ø, 8 x 3.9Ø

Size 2 630A Depth: 258



Module ways	Fixing centres Dim B	Height
6	566	1350
10	681	1579
14	795	1807
18	909	2036

	Dim A
SLA	330
PJA	295
Lugs	568

Technical detail

I-Line Reference		Software Design Packages
Material	Description	Device Description
IL0161P251	I-Line 16A 1P 25kA NSX MCCB (L1)	NSX100N 16A 1P TMD
IL0161P252	I-Line 16A 1P 25kA NSX MCCB (L2)	NSX100N 16A 1P TMD
IL0161P253	I-Line 16A 1P 25kA NSX MCCB (L3)	NSX100N 16A 1P TMD
IL0163P25	I-Line 16A 3P 25kA NSX MCCB	NSX100B 16A 3P TMD
IL0163P36	I-Line 16A 3P 36kA NSX MCCB	NSX100F 16A 3P TMD
IL0201P251	I-Line 20A1P 25kA NSX MCCB (L1)	NSX100N 20A 1P TMD
IL0201P252	I-Line 20A1P 25kA NSX MCCB (L2)	NSX100N 20A 1P TMD
IL0201P253	I-Line 20A1P 25kA NSX MCCB (L3)	NSX100N 20A 1P TMD
IL0253P25	I-Line 25A 3P 25kA NSX MCCB	NSX100B 25A 3P TMD
IL0253P36	I-Line 25A 3P 36kA NSX MCCB	NSX100F 25A 3P TMD
IL0301P251	I-Line 30A1P 25kA NSX MCCB (L1)	NSX100N 30A 1P TMD
IL0301P252	I-Line 30A1P 25kA NSX MCCB (L2)	NSX100N 30A 1P TMD
IL0301P253	I-Line 30A1P 25kA NSX MCCB (L3)	NSX100N 30A 1P TMD
IL0323P25	I-Line 32A 3P 25kA NSX MCCB	NSX100B 32A 3P TMD
IL0323P36	I-Line 32A 3P 36kA NSX MCCB	NSX100F 32A 3P TMD
IL0401P251	I-Line 40A1P 25kA NSX MCCB (L1)	NSX100N 40A 1P TMD
IL0401P252	I-Line 40A1P 25kA NSX MCCB (L2)	NSX100N 40A 1P TMD
IL0401P253	I-Line 40A1P 25kA NSX MCCB (L3)	NSX100N 40A 1P TMD
IL0403P25	I-Line 40A 3P 25kA NSX MCCB	NSX100B 40A 3P TMD
IL0403P36	I-Line 40A 3P 36kA NSX MCCB	NSX100F 40A 3P TMD
IL0501P251	I-Line 50A1P 25kA NSX MCCB (L1)	NSX100N 50A 1P TMD
IL0501P252	I-Line 50A1P 25kA NSX MCCB (L2)	NSX100N 50A 1P TMD
IL0501P253	I-Line 50A1P 25kA NSX MCCB (L3)	NSX100N 50A 1P TMD
IL0503P25	I-Line 50A 3P 25kA NSX MCCB	NSX100B 50A 3P TMD
IL0503P36	I-Line 50A 3P 36kA NSX MCCB	NSX100F 50A 3P TMD
IL0631P251	I-Line 63A1P 25kA NSX MCCB (L1)	NSX100N 63A 1P TMD
IL0631P252	I-Line 63A1P 25kA NSX MCCB (L2)	NSX100N 63A 1P TMD
IL0631P253	I-Line 63A1P 25kA NSX MCCB (L3)	NSX100N 63A 1P TMD
IL0633P25	I-Line 63A 3P 25kA NSX MCCB	NSX100B 63A 3P TMD
IL0633P36	I-Line 63A 3P 36kA NSX MCCB	NSX100F 63A 3P TMD
IL0801P251	I-Line 80A1P 25kA NSX MCCB (L1)	NSX100N 80A 1P TMD
IL0801P252	I-Line 80A1P 25kA NSX MCCB (L2)	NSX100N 80A 1P TMD
IL0801P253	I-Line 80A1P 25kA NSX MCCB (L3)	NSX100N 80A 1P TMD
IL0803P25	I-Line 80A 3P 25kA NSX MCCB	NSX100B 80A 3P TMD
IL0803P36	I-Line 80A 3P 36kA NSX MCCB	NSX100F 80A 3P TMD
IL1001P251	I-Line 100A1P 25kA NSX MCCB (L1)	NSX100N 100A 1P TMD
IL1001P252	I-Line 100A1P 25kA NSX MCCB (L2)	NSX100N 100A 1P TMD
IL1001P253	I-Line 100A1P 25kA NSX MCCB (L3)	NSX100N 100A 1P TMD
IL1003P25	I-Line 100A 3P 25kA NSX MCCB	NSX100B 100A 3P TMD
IL1003P36	I-Line 100A 3P 36kA NSX MCCB	NSX100F 100A 3P TMD
IL1253P36	I-Line 125A 3P 36kA NSX MCCB	NSX160F 125A 3P TMD
IL1603P36	I-Line 160A 3P 36kA NSX MCCB	NSX100F 160A 3P TMD
IL1603P36ML2	I-Line 160A 3P 36kA NSX MCCB +ML2	NSX100F 160A 3P ML2.2
IL2003P36	I-Line 200A 3P 36kA NSX MCCB	NSX250F 200A 3P TMD
IL2503P36	I-Line 250A 3P 36kA NSX MCCB	NSX250F 250A 3P TMD
IL2503P36ML2	I-Line 250A 3P 36kA NSX MCCB +ML2	NSX250F 250A 3P ML2.2

Technical detail

I-Line Reference		Power Connections		
Material	Description	Fixing	Type	Torque
IL0161P251	I-Line 16A 1P 25kA NSX MCCB (L1)	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0161P252	I-Line 16A 1P 25kA NSX MCCB (L2)	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0161P253	I-Line 16A 1P 25kA NSX MCCB (L3)	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0163P25	I-Line 16A 3P 25kA NSX MCCB	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0163P36	I-Line 16A 3P 36kA NSX MCCB	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0201P251	I-Line 20A1P 25kA NSX MCCB (L1)	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0201P252	I-Line 20A1P 25kA NSX MCCB (L2)	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0201P253	I-Line 20A1P 25kA NSX MCCB (L3)	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0253P25	I-Line 25A 3P 25kA NSX MCCB	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0253P36	I-Line 25A 3P 36kA NSX MCCB	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0301P251	I-Line 30A1P 25kA NSX MCCB (L1)	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0301P252	I-Line 30A1P 25kA NSX MCCB (L2)	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0301P253	I-Line 30A1P 25kA NSX MCCB (L3)	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0323P25	I-Line 32A 3P 25kA NSX MCCB	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0323P36	I-Line 32A 3P 36kA NSX MCCB	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0401P251	I-Line 40A1P 25kA NSX MCCB (L1)	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0401P252	I-Line 40A1P 25kA NSX MCCB (L2)	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0401P253	I-Line 40A1P 25kA NSX MCCB (L3)	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0403P25	I-Line 40A 3P 25kA NSX MCCB	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0403P36	I-Line 40A 3P 36kA NSX MCCB	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0501P251	I-Line 50A1P 25kA NSX MCCB (L1)	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0501P252	I-Line 50A1P 25kA NSX MCCB (L2)	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0501P253	I-Line 50A1P 25kA NSX MCCB (L3)	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0503P25	I-Line 50A 3P 25kA NSX MCCB	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0503P36	I-Line 50A 3P 36kA NSX MCCB	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0631P251	I-Line 63A1P 25kA NSX MCCB (L1)	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0631P252	I-Line 63A1P 25kA NSX MCCB (L2)	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0631P253	I-Line 63A1P 25kA NSX MCCB (L3)	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0633P25	I-Line 63A 3P 25kA NSX MCCB	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0633P36	I-Line 63A 3P 36kA NSX MCCB	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0801P251	I-Line 80A1P 25kA NSX MCCB (L1)	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0801P252	I-Line 80A1P 25kA NSX MCCB (L2)	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0801P253	I-Line 80A1P 25kA NSX MCCB (L3)	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0803P25	I-Line 80A 3P 25kA NSX MCCB	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL0803P36	I-Line 80A 3P 36kA NSX MCCB	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL1001P251	I-Line 100A1P 25kA NSX MCCB (L1)	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL1001P252	I-Line 100A1P 25kA NSX MCCB (L2)	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL1001P253	I-Line 100A1P 25kA NSX MCCB (L3)	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL1003P25	I-Line 100A 3P 25kA NSX MCCB	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL1003P36	I-Line 100A 3P 36kA NSX MCCB	M6 x 20mm	PZ2/PZ3	10 + /-1 Nm
IL1253P36	I-Line 125A 3P 36kA NSX MCCB	M8 x 20mm	6mm Hex Key	15 + /-1.5 Nm
IL1603P36	I-Line 160A 3P 36kA NSX MCCB	M8 x 20mm	6mm Hex Key	15 + /-1.5 Nm
IL1603P36ML2	I-Line 160A 3P 36kA NSX MCCB +ML2	M8 x 20mm	6mm Hex Key	15 + /-1.5 Nm
IL2003P36	I-Line 200A 3P 36kA NSX MCCB	M8 x 20mm	6mm Hex Key	15 + /-1.5 Nm
IL2503P36	I-Line 250A 3P 36kA NSX MCCB	M8 x 20mm	6mm Hex Key	15 + /-1.5 Nm
IL2503P36ML2	I-Line 250A 3P 36kA NSX MCCB +ML2	M8 x 20mm	6mm Hex Key	15 + /-1.5 Nm

Technical detail

I-Line Reference		Zs Value		
Material	Description	Setting (Im@ 0.4s)	Current	Upper Limit Zs (ohms)
IL0161P251	I-Line 16A 1P 25kA NSX MCCB (L1)	Fixed	190	0.96
IL0161P252	I-Line 16A 1P 25kA NSX MCCB (L2)	Fixed	190	0.96
IL0161P253	I-Line 16A 1P 25kA NSX MCCB (L3)	Fixed	190	0.96
IL0163P25	I-Line 16A 3P 25kA NSX MCCB	Fixed	190	0.96
IL0163P36	I-Line 16A 3P 36kA NSX MCCB	Fixed	190	0.96
IL0201P251	I-Line 20A1P 25kA NSX MCCB (L1)	Fixed	190	0.96
IL0201P252	I-Line 20A1P 25kA NSX MCCB (L2)	Fixed	190	0.96
IL0201P253	I-Line 20A1P 25kA NSX MCCB (L3)	Fixed	190	0.96
IL0253P25	I-Line 25A 3P 25kA NSX MCCB	Fixed	300	0.61
IL0253P36	I-Line 25A 3P 36kA NSX MCCB	Fixed	300	0.61
IL0301P251	I-Line 30A1P 25kA NSX MCCB (L1)	Fixed	300	0.61
IL0301P252	I-Line 30A1P 25kA NSX MCCB (L2)	Fixed	300	0.61
IL0301P253	I-Line 30A1P 25kA NSX MCCB (L3)	Fixed	300	0.61
IL0323P25	I-Line 32A 3P 25kA NSX MCCB	Fixed	400	0.46
IL0323P36	I-Line 32A 3P 36kA NSX MCCB	Fixed	400	0.46
IL0401P251	I-Line 40A1P 25kA NSX MCCB (L1)	Fixed	500	0.36
IL0401P252	I-Line 40A1P 25kA NSX MCCB (L2)	Fixed	500	0.36
IL0401P253	I-Line 40A1P 25kA NSX MCCB (L3)	Fixed	500	0.36
IL0403P25	I-Line 40A 3P 25kA NSX MCCB	Fixed	500	0.36
IL0403P36	I-Line 40A 3P 36kA NSX MCCB	Fixed	500	0.36
IL0501P251	I-Line 50A1P 25kA NSX MCCB (L1)	Fixed	500	0.36
IL0501P252	I-Line 50A1P 25kA NSX MCCB (L2)	Fixed	500	0.36
IL0501P253	I-Line 50A1P 25kA NSX MCCB (L3)	Fixed	500	0.36
IL0503P25	I-Line 50A 3P 25kA NSX MCCB	Fixed	500	0.36
IL0503P36	I-Line 50A 3P 36kA NSX MCCB	Fixed	500	0.36
IL0631P251	I-Line 63A1P 25kA NSX MCCB (L1)	Fixed	500	0.36
IL0631P252	I-Line 63A1P 25kA NSX MCCB (L2)	Fixed	500	0.36
IL0631P253	I-Line 63A1P 25kA NSX MCCB (L3)	Fixed	500	0.36
IL0633P25	I-Line 63A 3P 25kA NSX MCCB	Fixed	500	0.36
IL0633P36	I-Line 63A 3P 36kA NSX MCCB	Fixed	500	0.36
IL0801P251	I-Line 80A1P 25kA NSX MCCB (L1)	Fixed	640	0.28
IL0801P252	I-Line 80A1P 25kA NSX MCCB (L2)	Fixed	640	0.28
IL0801P253	I-Line 80A1P 25kA NSX MCCB (L3)	Fixed	640	0.28
IL0803P25	I-Line 80A 3P 25kA NSX MCCB	Fixed	640	0.28
IL0803P36	I-Line 80A 3P 36kA NSX MCCB	Fixed	640	0.28
IL1001P251	I-Line 100A1P 25kA NSX MCCB (L1)	Fixed	800	0.23
IL1001P252	I-Line 100A1P 25kA NSX MCCB (L2)	Fixed	800	0.23
IL1001P253	I-Line 100A1P 25kA NSX MCCB (L3)	Fixed	800	0.23
IL1003P25	I-Line 100A 3P 25kA NSX MCCB	Fixed	800	0.23
IL1003P36	I-Line 100A 3P 36kA NSX MCCB	Fixed	800	0.23
IL1253P36	I-Line 125A 3P 36kA NSX MCCB	Fixed	1250	0.146
IL1603P36	I-Line 160A 3P 36kA NSX MCCB	Fixed	1250	0.146
IL1603P36ML2	I-Line 160A 3P 36kA NSX MCCB +ML2	1.5 to 10 x In	95 - 1600	2.10 -0.12*
IL2003P36	I-Line 200A 3P 36kA NSX MCCB	5 to 10 x In	1000 - 2000	0.182 -0.091*
IL2503P36	I-Line 250A 3P 36kA NSX MCCB	5 to 10 x In	1250 - 2500	0.146 - 0.073*
IL2503P36ML2	I-Line 250A 3P 36kA NSX MCCB +ML2	1.5 to 10 x In	150 - 2500	1.32 - 0.079*

* Refer to SE Website for full list of values
Rated Voltage to earth with Cmin (230Vas x 0.95) = 218.5V

CD and CN MCCB Legacy Offers

Single Pole	
Part No.	Description
CDXAE12016A	16A 1P 25kA CDXAE plug-on L1
CDXAE12016B	16A 1P 25kA CDXAE plug-on L2
CDXAE12016C	16A 1P 25kA CDXAE plug-on L3
CDXAE12020A	20A 1P 25kA CDXAE plug-on L1
CDXAE12020B	20A 1P 25kA CDXAE plug-on L2
CDXAE12020C	20A 1P 25kA CDXAE plug-on L3
CDXAE12030A	30A 1P 25kA CDXAE plug-on L1
CDXAE12030B	30A 1P 25kA CDXAE plug-on L2
CDXAE12030C	30A 1P 25kA CDXAE plug-on L3
CDXAE12040A	40A 1P 25kA CDXAE plug-on L1
CDXAE12040B	40A 1P 25kA CDXAE plug-on L2
CDXAE12040C	40A 1P 25kA CDXAE plug-on L3
CDXAE12050A	50A 1P 25kA CDXAE plug-on L1
CDXAE12050B	50A 1P 25kA CDXAE plug-on L2
CDXAE12050C	50A 1P 25kA CDXAE plug-on L3
CDXAE12063A	63A 1P 25kA CDXAE plug-on L1
CDXAE12063B	63A 1P 25kA CDXAE plug-on L2
CDXAE12063C	63A 1P 25kA CDXAE plug-on L3
CDXAE12080A	80A 1P 25kA CDXAE plug-on L1
CDXAE12080B	80A 1P 25kA CDXAE plug-on L2
CDXAE12080C	80A 1P 25kA CDXAE plug-on L3
CDXAE12100A	100A 1P 25kA CDXAE plug-on L1
CDXAE12100B	100A 1P 25kA CDXAE plug-on L2
CDXAE12100C	100A 1P 25kA CDXAE plug-on L3

New IL MCCB Offers

Single Pole	
Part No.	Description
IL0161P251	I-Line 16A 1P 25kA NSX MCCB (L1)
IL0161P252	I-Line 16A 1P 25kA NSX MCCB (L2)
IL0161P253	I-Line 16A 1P 25kA NSX MCCB (L3)
IL0201P251	I-Line 20A1P 25kA NSX MCCB (L1)
IL0201P252	I-Line 20A1P 25kA NSX MCCB (L2)
IL0201P253	I-Line 20A1P 25kA NSX MCCB (L3)
IL0301P251	I-Line 30A1P 25kA NSX MCCB (L1)
IL0301P252	I-Line 30A1P 25kA NSX MCCB (L2)
IL0301P253	I-Line 30A1P 25kA NSX MCCB (L3)
IL0401P251	I-Line 40A1P 25kA NSX MCCB (L1)
IL0401P252	I-Line 40A1P 25kA NSX MCCB (L2)
IL0401P253	I-Line 40A1P 25kA NSX MCCB (L3)
IL0501P251	I-Line 50A1P 25kA NSX MCCB (L1)
IL0501P252	I-Line 50A1P 25kA NSX MCCB (L2)
IL0501P253	I-Line 50A1P 25kA NSX MCCB (L3)
IL0631P251	I-Line 63A1P 25kA NSX MCCB (L1)
IL0631P252	I-Line 63A1P 25kA NSX MCCB (L2)
IL0631P253	I-Line 63A1P 25kA NSX MCCB (L3)
IL0801P251	I-Line 80A1P 25kA NSX MCCB (L1)
IL0801P252	I-Line 80A1P 25kA NSX MCCB (L2)
IL0801P253	I-Line 80A1P 25kA NSX MCCB (L3)
IL1001P251	I-Line 100A1P 25kA NSX MCCB (L1)
IL1001P252	I-Line 100A1P 25kA NSX MCCB (L2)
IL1001P253	I-Line 100A1P 25kA NSX MCCB (L3)

CD and CN MCCB Legacy Offers

Single Pole	
Triple Pole 25kA	
Part No.	Description
CDXAE34016	16A 3P 25kA CDXAE plug-on MCCB
CDXAE34025	25A 3P 25kA CDXAE plug-on MCCB
CDXAE34032	32A 3P 25kA CDXAE plug-on MCCB
CDXAE34040	40A 3P 25kA CDXAE plug-on MCCB
CDXAE34050	50A 3P 25kA CDXAE plug-on MCCB
CDXAE34063	63A 3P 25kA CDXAE plug-on MCCB
CDXAE34080	80A 3P 25kA CDXAE plug-on MCCB
CDXAE34100	100A 3P 25kA CDXAE plug-on MCCB
Triple Pole 36kA	
Part No.	Description
CNXAE34016	16A 3P 36kA CNXAE plug-on MCCB
CNXAE34025	25A 3P 36kA CNXAE plug-on MCCB
CNXAE34032	32A 3P 36kA CNXAE plug-on MCCB
CNXAE34040	40A 3P 36kA CNXAE plug-on MCCB
CNXAE34050	50A 3P 36kA CNXAE plug-on MCCB
CNXAE34063	63A 3P 36kA CNXAE plug-on MCCB
CNXAE34080	80A 3P 36kA CNXAE plug-on MCCB
CNXAE34100	100A 3P 36kA CNXAE plug-on MCCB
CNXAE34125	125A 3P 36kA CNXAE plug-on MCCB
CNXAE34160	160A 3P 36kA CNXAE plug-on MCCB
CNXAE34200	200A 3P 36kA CNXAE plug-on MCCB
CNXAE34250	250A 3P 36kA plug-on MCCB
CNXAE34160E20	160A 3P 36kA CNXAE electronic MCCB
CNXAE34250E20	250A 3P 36kA CNXAE electronic MCCB
Isolators	
Part No.	Description
CNXAE34000S15	150A 3P Switch Disconnector
CNXAE34000S25	250A 3P Switch Disconnector

New IL MCCB Offers

Single Pole	
Triple Pole 25kA	
Part No.	Description
IL0163P25	I-Line 16A 3P 25kA NSX MCCB
IL0253P25	I-Line 25A 3P 25kA NSX MCCB
IL0323P25	I-Line 32A 3P 25kA NSX MCCB
IL0403P25	I-Line 40A 3P 25kA NSX MCCB
IL0503P25	I-Line 50A 3P 25kA NSX MCCB
IL0633P25	I-Line 63A 3P 25kA NSX MCCB
IL0803P25	I-Line 80A 3P 25kA NSX MCCB
IL1003P25	I-Line 100A 3P 25kA NSX MCCB
Triple Pole 36kA	
Part No.	Description
IL0163P36	I-Line 16A 3P 36kA NSX MCCB
IL0253P36	I-Line 25A 3P 36kA NSX MCCB
IL0323P36	I-Line 32A 3P 36kA NSX MCCB
IL0403P36	I-Line 40A 3P 36kA NSX MCCB
IL0503P36	I-Line 50A 3P 36kA NSX MCCB
IL0633P36	I-Line 63A 3P 36kA NSX MCCB
IL0803P36	I-Line 80A 3P 36kA NSX MCCB
IL1003P36	I-Line 100A 3P 36kA NSX MCCB
IL1253P36	I-Line 125A 3P 36kA NSX MCCB
IL1603P36	I-Line 160A 3P 36kA NSX MCCB
IL2003P36	I-Line 200A 3P 36kA NSX MCCB
IL2503P36	I-Line 250A 3P 36kA NSX MCCB
IL1603P36ML2	I-Line 160A 3P 36kA NSX MCCB + Micrologic 2.2 trip unit
IL2503P36ML2	I-Line 250A 3P 36kA NSX MCCB + Micrologic 2.2 trip unit
Isolators	
Part No.	Description
IL1603PSW	I-Line 160A 3P Switch Disconnector
IL2503PSW	I-Line 250A 3P Switch Disconnector

KQ Loadcentre

Distribution boards

Circuit protection

Features:

- Plug on technology
- Enhanced incoming section
- Shrouded neutral terminal bar
- Modular enclosure sizes
- IP2XB encapsulated busbar
- Control devices
- Removable gland plates
- Split earth & neutral bars
- 25mm cables accepted
- Integral cable way
- Increased enclosure size

Benefits:

- 50% fewer connections, reliable connections
- Time saving on installation
- Additional safety feature
- Join together top/bottom or side/side
- Safety feature – throughout offer
- Can be fitted in any spare outgoing ways
- Ease of installation (plain / knockouts)
- Easier installation and cable zoning
- Earth & neutral termination points
- Easier wiring on control devices
- More wiring space

Plug-on Circuit Protection unique to Schneider Electric

- Plug-On breaker connections are designed so that under short circuit conditions, the magnetic forces developed push the jaws together, gripping the busbar more firmly
- No wiring connections need to be made to the busbars as the connectors form an integral part of the circuit breakers
- MCB's up to 63a plug onto the busbar stack
- Plug-On devices help reduce installation time
- Simple to add or retrospectively change outgoing devices
- Boards are supplied complete and ready to install. Simply mount to the wall and fit the required MCBs. The board is then ready for cabling
- Plug-on devices ensure reliable connections
- Quality - busbar systems are certified and the unique mounting system ensures devices cannot be incorrectly fitted
- Proven experience - The KQ distribution boards have been used extensively across commercial applications.

KQuick

install, specs, delivery, savings

KQuick Availability
Our stock is always on standby, ready to ensure your projects stay on track.

Budget-Friendly Quality
Keep your project and budget aligned with our cost-effective options.

Reliable and Industry-Compliant
Ensure your project stays on spec and built with reliable solutions.

Installer-Friendly Design
High-quality components and quick-install features.

Excellence and Reliability
We are committed to delivering best-in-class solutions for your needs.

Scan to find out more

se.com/uk

Life Is On | Schneider Electric

KQ Loadcentre - single phase A type distribution boards - 125A

- Manufactured and tested to BS EN 61439-3
- Maximum busbar rating 125A
- Voltage rating 230/240V AC
- External IP3X protection to BS EN 60529
- Internal IP2XB protection to BS EN 60529 provided by permanent, non removable, factory fitted barriers
- Shielded neutral bars
- Cable knockouts on all sides for speed of installation
- Earth bar capacity 25mm^2
- Neutral bar capacity 25mm^2
- Wide range of bolt-on incomers, Plug-On outgoers
- All A boards accept DIN control products e.g. contactors, time clocks, in any unused outgoing way without adaptation

Standard type (excluding incomers)

SE125A12

Reference number	Number of SP ways
SE125A6	6
SE125A8	8
SE125A12	12
SE125A16	16
SE125A24	24

Note: Dimensions can be found on page 57

Split meter board (including incomers)

SEAM14S14

Reference number	Number of ways	
	Lighting	Power
SEAM10S10 *	10	10
SEAM14S14 *	14	14

Note: Dimensions can be found on page 59
The split metering board is supplied with 2 x 100A A9MEM2455 meters, an overall switch disconnector and individual 50A 2P Miniature Circuit Breakers for lighting and power. Meters are direct connected with pulse output.
*Max Load per row 50A.

Type A KQ Loadcentre+ DIN incoming devices

SE125SW2

SED63032

Reference number	Device type	Current rating	Number of poles	Standard approval	Cable capacity mm^2
SE125L2	Terminal block	125A	2	–	50
SE125SW2	Switch disconnector	125A	2	BS EN 60947-3	50
SED21263	RCCB	63A, 30mA	2	BS EN 61008	35
SED24263	RCCB	63A, 300mA	2	BS EN 61008	35
SED21291	RCCB	100A, 30mA	2	BS EN 61008	50
SED22291	RCCB	100A, 100mA	2	BS EN 61008	50

KQ Loadcentre - iKQ Miniature Circuit Breakers (MCB's)

- Manufactured and tested to BS EN 60898
- 10kA breaking capacity
- Let through energy classification of 3 (lowest let through energy giving best cable protection classification)
- Positive contact indication (reliable on/off indication)
- Trip free mechanism operates even when the toggle is locked on
- Lockable in the ON or OFF position
- Speed of connection of Plug-On devices - Reliable connection
- For use in KQ Loadcentre A and B boards

Single Pole MCB's

SE10B132

Reference numbers		Current rating (Icn*)	Rigid cable capacity mm^2
1 Pole Type B	1 Pole Type C		
SE10B106	SE10C106	6A	25
SE10B110	SE10C110	10A	25
SE10B116	SE10C116	16A	25
SE10B120	SE10C120	20A	25
SE10B132	SE10C132	32A	35
SE10B140	SE10C140	40A	35
SE10B150	SE10C150	50A	35
SE10B163	SE10C163	63A	35

DIN rail mounted iARC AFD

The arc fault detection switch iARC monitors electric arcs that occur in cables and connection and my cause a fire. Coordinated with a MCB or a RCBO, max 40A. Additional extension is require for fitting, SE17BES (found on page 49) is suggested and is capable of fitting 4 iARC devices. For more information see page 54.

A9TSB3640

iARC			
Reference number	Description	Rating	Number of poles
A9TSB3640	Arc Fault Detection Device (AFDD) iARC	40A	1P+N

iKQ Loadcentre - Residual Current Circuit Breakers with Overload (RCBO's)

- Manufactured and tested to BS EN 61009
- 10kA breaking capacity
- Let through energy classification of 3 (lowest let through energy giving best cable protection classification)
- Positive contact indication on toggle (reliable on/off indication)
- Trip free MCB mechanism
- Lockable in the ON or OFF position
- Automatic trip on loss of neutral
- Type B and C characteristics
- Operating voltage 150 - 230Vac
- 6 - 45A; 30mA sensitivities
- A class sensitivity
- For use in KQ Loadcentre A and B boards
- One single pole way occupied in a distribution board ideal for retrofitting earth fault protection
- Cable capacity 16mm^2
- Speed of connection of Plug-On devices
- Assured system integrity, no other devices fit KQ boards

Applications

RCBO's are available with 30mA earth leakage sensitivities to suit applications including personnel protection.

RCBO's should be carefully selected for the relevant application.

Residual Current Circuit Breakers - A type

SEE132C03

Reference number	Current rating	Tripping curve	Sensitivity	Cable capacity mm^2
SEE106B03	6A	B	30mA	16
SEE110B03	10A	B	30mA	16
SEE116B03	16A	B	30mA	16
SEE120B03	20A	B	30mA	16
SEE125B03	25A	B	30mA	16
SEE132B03	32A	B	30mA	16
SEE140B03	40A	B	30mA	16
SEE145B03	45A	B	30mA	16
SEE106C03	6A	C	30mA	16
SEE110C03	10A	C	30mA	16
SEE116C03	16A	C	30mA	16
SEE120C03	20A	C	30mA	16
SEE125C03	25A	C	30mA	16
SEE132C03	32A	C	30mA	16
SEE140C03	40A	C	30mA	16
SEE145C03	45A	C	30mA	16

Surge Protection

New Plug-on SPD – Coming Q4 2025

Type 2+3 Surge Protection Device complete with fuse protection built into each removable and replaceable cartridge. Easy to install, simply fits directly into a KQ Distribution board with no additional extensions or enclosures required for fitting.

SEL8F450

SEL8F492

Plug-on Surge Protection		
Reference number	Type	Poles
SEL8F450	iKQ 1PN Plug-On SPD w/o RC	1PN
SEL8F492	iKQ 20/40 Cartridge for Plug-On SPD	1PN

125A A board accessories

SEAE16

SE1100L

SEPLMCB

SEPLMCB

SEPL

Reference number	Device type
SEK	Barrel lock and 2 keys new square door catch
SEDNBP3	Blanking plate (3 poles)
SEPLMCB	MCB padlock attachment (pk 3)
SEPLRCBO	RCBO padlock attachment (pk 10)
SEPL	Padlock
SEAE16	16 SP way DIN module enclosure (W489 x H300 x D117mm) includes Earth bar.
SE1100L	100A lug unit single pole
SESDC	Replacement door catch
SEDN25BP3	Blanking plate 25 x 3

KQ Loadcentre - three phase B type distribution boards - 250A

- Manufactured and tested to BS EN 61439-3
- Maximum busbar rating 250A
- Voltage Rating 400/415V AC
- External IP3X protection to BS EN 60529
- IP2XB finger safe with door and cover removed to BS EN 60529, provided by permanent, non removable, factory fitted barriers
- Fully shielded neutral bars
- Earth and neutral bar cable capacity 25mm^2 M8 earth bar stud
- All incoming connections are the same length i.e. 4 pole configuration
- Range of integral incomers for all applications including lugs, switches and RCCB's
- Outgoing MCB's available up to 63A B, C or D curves
- 18mm wide RCBO.
- Plug-On outgoers for speed of installation and reliable connections
- All B boards accept DIN control products (timers, contactors) in any unused outgoing way without adaptation
- Control wiring cable way integrated to moulding

Standard type (excluding incomers)

SE18B250

Reference number	Number of TP ways
SE12B250	4
SE18B250	6
SE24B250	8
SE36B250	12
SE48B250	16
SE54B250	18
SE72B250	24

Note: Dimensions can be found on page: 58

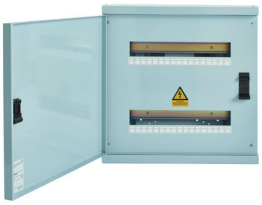
Split load (excluding incomers)

SE18B250
+
SEJK
+
SE18B250

Reference number	Number of TP ways		Reference number	Number of TP ways
SE12B250	4		SE12B250	4
SE18B250	6		SE18B250	6
SE24B250	8		SE24B250	8
SE36B250	12		SE36B250	12
SE48B250	16		SE48B250	16
SE54B250	18		SE54B250	18
SE72B250	24		SE72B250	24

Split load joining kit (SEJK) required for mechanical connection

Extra service units 125A (combination of a standard board and DIN rail enclosure)



SE12B2D

Reference number	Number of TP busbar ways		Reference number	Number of rows	Number of modules
SE12B250	4	} + {	SE17BES	1	17
SE18B250	6		SE12B2D	2	34
SE24B250	8		SE18B2D	2	34
SE36B250	12		SE36B3D	3	51
SE48B250	16		SE54B4D	4	68
SE54B250	18				
SE72B250	24				

Extra service units are designed for application using numerous control products and RCCB's.
Split load joining kit (SEJK) required for mechanical connection.
Note: Dimensions can be found on page 60

Split metering board 125A

SEB36S24125

Reference number	Number of TP ways Section 1	Section 2	Rating A
SEB36S24125	14	8	125
SEB42S18125	16	6	125
SEB48S12125	18	4	125

2 x A9MEM3255 MID approved meters with pulsed and modbus outputs.
Factory fitted incoming 3P+N switch disconnector.
Note: Dimensions can be found on page 59

Split metering board 250A

SEB36S24250

Reference number	Number of TP ways Section 1	Section 2	Rating A
SEB36S24250	14	8	250
SEB42S18250	16	6	250
SEB48S12250	18	4	250

250A boards require incoming switch disconnector or MCCB to be added. (See below)
2 x A9MEM3255 MID approved meters with pulsed and modbus outputs.
Note: Dimensions can be found on page 59

Incomers for 250A split metered boards

Reference number	Device type	Current rating	Number of poles	Standard approval	Cable capacity mm^2
SE250SW4SM	Switch disconnector	250A	4	BS EN 60947-3	185
SE160QCB3LSM	MCCB	160A	4	BS EN 60947-2	95
SE200QCB3LSM	MCCB	200A	4	BS EN 60947-2	185
SE250QCB3LSM	MCCB	250A	4	BS EN 60947-2	185

125A type B KQ Loadcentre incoming devices

SE125SW4

Reference number	Device type	Current rating	Number of poles	Standard approval	Cable capacity mm²
SE125L4	Terminal block	125A	4	–	50
SE125SW4	Switch disconnector	125A	4	BS EN 60947-3	50
SE125SW3L	Switch disconnector	125A	3P+N	BS EN 60947-3	50
SED80034	RCCB	80A, 30mA	4	BS EN 61008	35
SED24491	RCCB	100A, 300mA	4	BS EN 61008	50
SED100304S	RCCB	100A, 300mA TD	4	BS EN 61008	50

250A type B KQ Loadcentre incoming devices

SE250SW3L

SE160QRCD

Reference number	Device type	Current rating	Number of poles	Standard approval	Cable capacity mm²
SE250L4P	Terminal block	250A	4	–	185
SE160SW3L	Switch disconnector	160A	3+N	BS EN 60947-3	95
SE200SW3L	Switch disconnector	200A	3+N	BS EN 60947-3	185
SE250SW3L	Switch disconnector	250A	3+N	BS EN 60947-3	185
SE160SW4	Switch disconnector	160A	4	BS EN 60947-3	95
SE200SW4	Switch disconnector	200A	4	BS EN 60947-3	185
SE250SW4	Switch disconnector	250A	4	BS EN 60947-3	185
SE100QCB3L	MCCB	100A	3+N	BS EN 60947-2	95
SE160QCB3L	MCCB	160A	3+N	BS EN 60947-2	95
SE200QCB3L	MCCB	200A	3+N	BS EN 60947-2	185
SE250QCB3L	MCCB	250A	3+N	BS EN 60947-2	185
SE160QRCD	RCCB 160A	Adjustable 30mA - 10A	4	BS EN 61008	95

Note Supplied with 400mm extension box

KQ Loadcentre - iKQ Miniature Circuit Breakers (MCB's)

- Manufactured and tested to BS EN 60898
- 10kA breaking capacity
- Let through energy classification of 3 (lowest let through energy giving best cable protection classification)
- Positive contact indication (reliable on/off indication)
- Trip free mechanism operates even when the toggle is locked on
- Lockable in the ON or OFF position
- Speed of connection of Plug-On devices - Reliable connection
- For use in KQ Loadcentre A and B boards

Single Pole MCB's

SE10B132

Reference numbers		Current rating (Icn*)	Cable capacity mm²
1 Pole Type B	1 Pole Type C		
SE10B106	SE10C106	6A	25
SE10B110	SE10C110	10A	25
SE10B116	SE10C116	16A	25
SE10B120	SE10C120	20A	25
SE10B132	SE10C132	32A	35
SE10B140	SE10C140	40A	35
SE10B150	SE10C150	50A	35
SE10B163	SE10C163	63A	35

Triple Pole MCBs

SE10C332

Reference numbers		Current rating (Icn*)	Cable capacity mm²
3 Pole Type C	3 Pole Type D		
SE10C306	-	6A	25
SE10C310	-	10A	25
SE10C316	SE10D316	16A	25
SE10C320	SE10D320	20A	25
SE10C325	-	25A	25
SE10C332	SE10D332	32A	35
SE10C340	SE10D340	40A	35
SE10C350	SE10D350	50A	35
SE10C363	SE10D363	63A	35

Get the support you need…
When you need it!

Our mySchneider app provides 24/7, immediate access to technical and support information;

> Browse FAQs for instant answers
> Search product references and download datasheets
> Browse mySchneider for delivery and price updates *

Download the app today,
Search 'mySchneider' on your app store

Available on the iPhone App Store

ANDROID APP ON Google play

Life Is On | Schneider Electric

*Registered mySchneider account holders only

iKQ Loadcentre - Residual Current Circuit Breakers with Overload (RCBO's)

- Manufactured and tested to BS EN 61009
- 10kA breaking capacity
- Let through energy classification of 3 (lowest let through energy giving best cable protection classification)
- Positive contact indication on toggle (reliable on/off indication)
- Trip free MCB mechanism
- Lockable in the ON or OFF position
- Automatic trip on loss of neutral
- Automatic protection against reverse polarity
- Type B and C characteristics
- Operating voltage 150 - 230Vac
- 6 - 45A; 30mA sensitivities
- A class sensitivity
- For use in KQ Loadcentre A and B boards
- One single pole way occupied in a distribution board ideal for retrofitting earth fault protection
- Cable capacity 16mm^2
- Speed of connection of Plug-On devices
- Assured system integrity, no other devices fit KQ boards

Applications

RCBO's are available with 30mA earth leakage sensitivities to suit applications including personnel protection.

RCBO's should be carefully selected for the relevant application.

Residual Current Circuit Breakers - A type

SEE132C03

Reference number	Current rating	Tripping curve	Sensitivity	Cable capacity mm^2
SEE106B03	6A	B	30mA	16
SEE110B03	10A	B	30mA	16
SEE116B03	16A	B	30mA	16
SEE120B03	20A	B	30mA	16
SEE125B03	25A	B	30mA	16
SEE132B03	32A	B	30mA	16
SEE140B03	40A	B	30mA	16
SEE145B03	45A	B	30mA	16
SEE106C03	6A	C	30mA	16
SEE110C03	10A	C	30mA	16
SEE116C03	16A	C	30mA	16
SEE120C03	20A	C	30mA	16
SEE125C03	25A	C	30mA	16
SEE132C03	32A	C	30mA	16
SEE140C03	40A	C	30mA	16
SEE145C03	45A	C	30mA	16

DIN rail mounted iARC AFD

The arc fault detection switch iARC monitors electric arcs that occur in cables and connection and my cause a fire. Coordinated with a MCB or a RCBO, max 40A. Additional extension is require for fitting, SE17BES (found on page 49) is suggested and is capable of fitting 4 iARC devices. For more information see page 54.

A9TSB3640

iARC			
Reference number	Description	Rating	Number of poles
A9TSB3640	Arc Fault Detection Device (AFDD) iARC	40A	1P+N

125A type B KQ Loadcentre Metering & Connected Products

Metering extension kit

SE250MET

Reference number	Description
SE250MET	MID 3 Phase kWh kit modbus communications and pulsed output (Includes A9MEM3255)

Note: Dimensions can be found on page 59

KQ Connected Products

Connect your KQ Loadcentre board using wireless connectivity to see the power and optimise the use of your assets with Facility Expert, our simple on-line services platform

RCBO PowerTag wireless sensors

Rated at 63A it assembles on to iKQE RCBOs optimising asset management through real time monitoring and alarming of V, I, P, PF, kWh and loss of voltage.

A9MEM1563

Reference number	Description	Type
A9MEM1563	PowerTag RCBO Max 63A Energy Sensor	1PN

iKQ PowerTag wireless sensors

Rated at 63A it assembles on to iKQ MCBs optimising asset management through real time monitoring and alarming of V, I, PF, kWh and loss of voltage.

A9MEM1520

Reference number	Description	Type
A9MEM1520	PowerTag MCB 1PW Max 63A Energy Sensor	1PN
A9MEM1540	PowerTag MCB 3P Max 63A Energy Sensor	3P

Distribution board gateway

Compatible with all distribution boards, the gateway has wireless connectivity for up to 100 PowerTag wireless energy sensors.

PAS600

Reference number	Description
PAS400*	Panel Server Entry 110-277V AC/DC
PAS600*	Panel Server Uni 110-277V AC/DC
PAS800*	ESX Panel Server ADV 110-277VACDC

*An Extension enclosure and 6A single pole MCB are advised when fitting this device

KQ Loadcentre - Residual Current Circuit Breakers (RCCB's)

Type A RCCB

All Residual Current Circuit Breakers are suitable for use as main incomers in KQ Loadcentre distribution boards.

- Comply with BS EN 61008. Specification for Residual Current operated Circuit Breakers
- Rated voltage 240/415V AC 50/60 Hz
- Test button enables RCCB to be tested periodically
- 30mA device suitable for use as additional protection on final sub circuits

Residual Current Circuit Breakers - A type

SED40032

SED40034

Reference number	Description
SED21240	KQ IID 2P 40A 30MA
SED21263	KQ IID 2P 63A 30MA
SED24263	KQ IID 2P 63A 300MA
SED21291	KQ IID 2P 100A 30MA
SED22291	KQ IID 2P 100A 300MA
SED21440	KQ IID 4P 40A 30MA
SED21463	KQ IID 4P 63A 30MA
SED22463	KQ IID 4P 63A 100MA
SED24463	KQ IID 4P 63A 300MA
SED21491	KQ IID 4P 100A 30MA
SED24491	KQ IID 4P 100A 300MA
SED25491	KQ IID 4P 100A 300MA-S

Complementary control devices and accessories

A9C20732

Reference	Description
A9C20732	iCT 25A 2NO 230...240VAC 50HZ Contactor
A9C20834	iCT 25A 4NO 220...240VAC 50HZ Contactor
A9C20842	iCT 40A 2NO 220...240VAC 50HZ Contactor
A9C20843	iCT 40A 3NO 220...240VAC 50HZ Contactor
A9C20844	iCT 40A 4NO 220...240VAC 50HZ Contactor
A9C20863	iCT 63A 3NO 220...240VAC 50HZ Contactor
A9C30811	iTL16A 1NO 230/240VAC 50-60HZ 110V
A9C30812	iTL16A 2NO 230/240VAC 50-60HZ 110V
A9E15535	Changeover relay iRLI 10A 2P UC 230V-240
A9A15321	ISO bell 8 12V
A9A15214	Bell transformer 4VA 230VCA 8VCA
A9A15323	Buzzer 8..12 VCA 70DBA 50..60HZ
A9C20884	iCT 100A 4NO 220...240VAC 50HZ Contactor

Surge Protection for installation with KQ boards, supplied with external insulated enclosure, connections and iKQ MCB

CF1PN40

Reference	Description	Supplying MCB (to be installed in the distribution board)
CF1PN40	Type 2 Surge Arrester 40kA 1P+N	SE10C140
CF1PN8	Type 2/3 Surge Arrester 8kA 1P+N	SE10C110
CF3PN40	Type 2 Surge Arrester 40kA 3P+N	SE10C340
CF3PN8	Type 2/3 Surge Arrester 8kA 3P+N	SE10C310

Complementary Surge Protection (DIN rail mounted)

For more information see page 55

A9L16634

Reference	Description
A9L16282	iPRD1 12,5R 1P+N Type 1/2 combined
A9L40500	iPRD 40 40 KA 340V 1P+N Type 2
A9L80500	iPRD 8 8 KA 230V 1P&N Type 2/3
A9L16482	iPRD1 12,5R 3P+N Type 1/2 combined
A9L40600	iPRD 40 40 KA 340V 3P+N Type 2
A9L08601	iPRD 8 8 KA 340V 3P+N Type 2/3

*Requires enclosure for fitting and upstream MCB for protection

New Plug-on SPD – Coming Q4 2025

Type 2+3 Surge Protection Device complete with fuse protection built into each removable and replaceable cartridge. Easy to install, simply fits directly into a KQ Distribution board with no additional extensions or enclosures required for fitting.

SEL8F460

SEL8F492

Plug-On Surge Protection		
Reference number	Type	Poles
SEL8F460	iKQ 3PN Plug-On SPD w/o RC	3PN
SEL8F492	iKQ 20/40 Cartridge for Plug-On SPD	1PN

Surge protection kit for KQ

Requires Bottom extension enclosure: SE17BES

SEBLKITT2

Plug-On Surge Protection		
Reference number	Type	Poles
SEBLKITT2	KQ Load Centre SPD kit including 3P 50A CMCB & T2 3p+N iPRD40 SPD and cables	3P

KQ Loadcentre - extension enclosures

KQ Loadcentre enclosures are available for applications where matching extension boxes are required to house system extensions or stand alone control systems.

There are two configurations, plain enclosures with door, enclosures with DIN rail, door and front cover assembly.

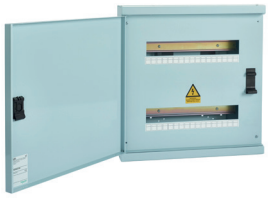
Steel enclosures complete with plain cover and door

Reference number	Description
SE12BCD	450mm with cover and door
SE18BCD	540mm with cover and door
SE36BCD	675mm with cover and door
SE54BCD	819mm with cover and door

SEJK - Joining Kit (If connected to board)

Note: Full dimensions can be found on page: 59

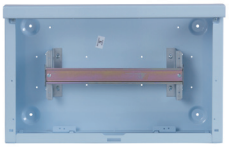
Steel enclosures complete with DIN rails and a front cover assembly and door



Reference number	Number of rows	Total number of SP modules
SE12B2D	2	34
SE18B2D	2	34
SE36B3D	3	51
SE54B4D	4	68

Note: Dimensions can be found on page 59

Steel extension enclosure complete with 1 row of DIN rails and a front cover assembly and door



SE17BES

Reference number	Number of rows	Total number of SP modules
SE17BES	1	17

Note: Dimensions can be found on page 60

Steel extension enclosure complete with plain cover

SEBES

Reference number	Number of rows	Total number of SP modules
SEBES	–	–

Note: Dimensions can be found on page 60

B board accessories

SEPLMCB

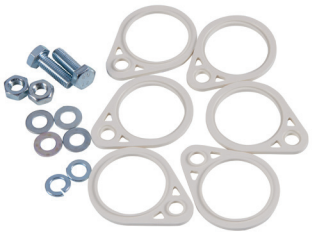
SEPLRCBO

SEBES

SEAE16

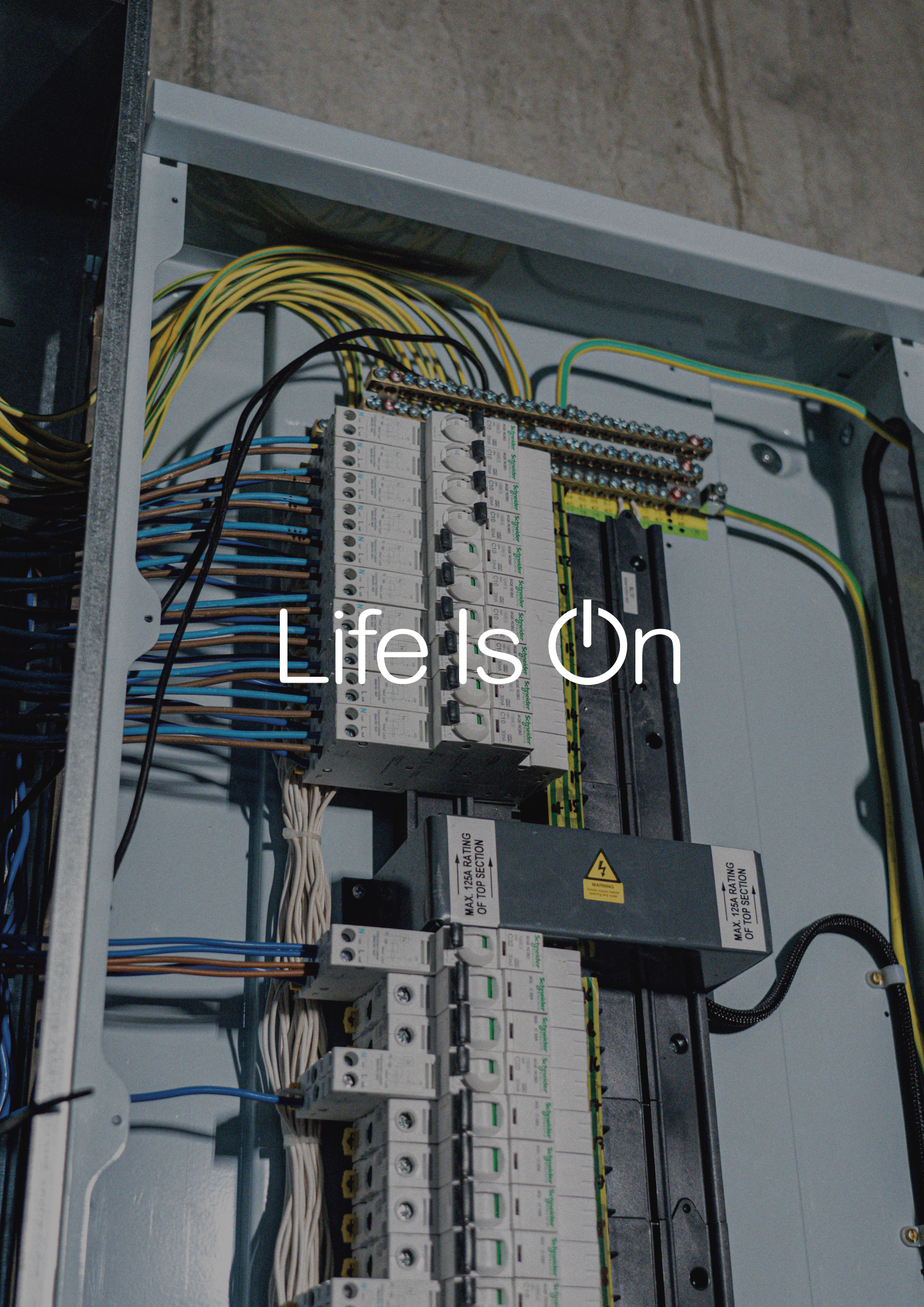
SE1100L

Reference number	Device type
SESJK	Side joining kit
SEJK	Top/bottom joining kit
SEK	Barrel lock and 2 keys for catch
SEK33	Spare keys
SE125SPP	125A single phasing kit for use with RCD and switch incomers
SE250SPP	250A single phasing kit
SEDNBP3	Blanking plate (3 poles)
SEPLMCB	MCB padlock attachment (pk 3)
SEPLRCBO	RCBO padlock attachment (pk 10)
SEBES	Plain extension box (Height 270mm)
SE1100L	100A lug unit single pole
SEGP	Spare gland plate - Plain
SECE12T	Clean earth 12 terminals
SESDC	Spare door catch
SEBFCF	Spare cover fixing (24)
SELA	MCB padlock attachment (bag of 3)
SEDN25BP3	Blanking plate 25 x 3



SESJK

SEJK


Life Is On
MAX. 125A RATING OF TOP SECTION
WARNING
MAX. 125A RATING OF TOP SECTION

KQ Loadcentre Technical

Safe & ready to Install.

- Covering all standard installations out of the box.
- Designed with a safe plug on system and encapsulated busbar assembly.
- IP2X finger safe busbar assembly with non removable insulating barriers providing protection against accidental direct contact.

High Performance

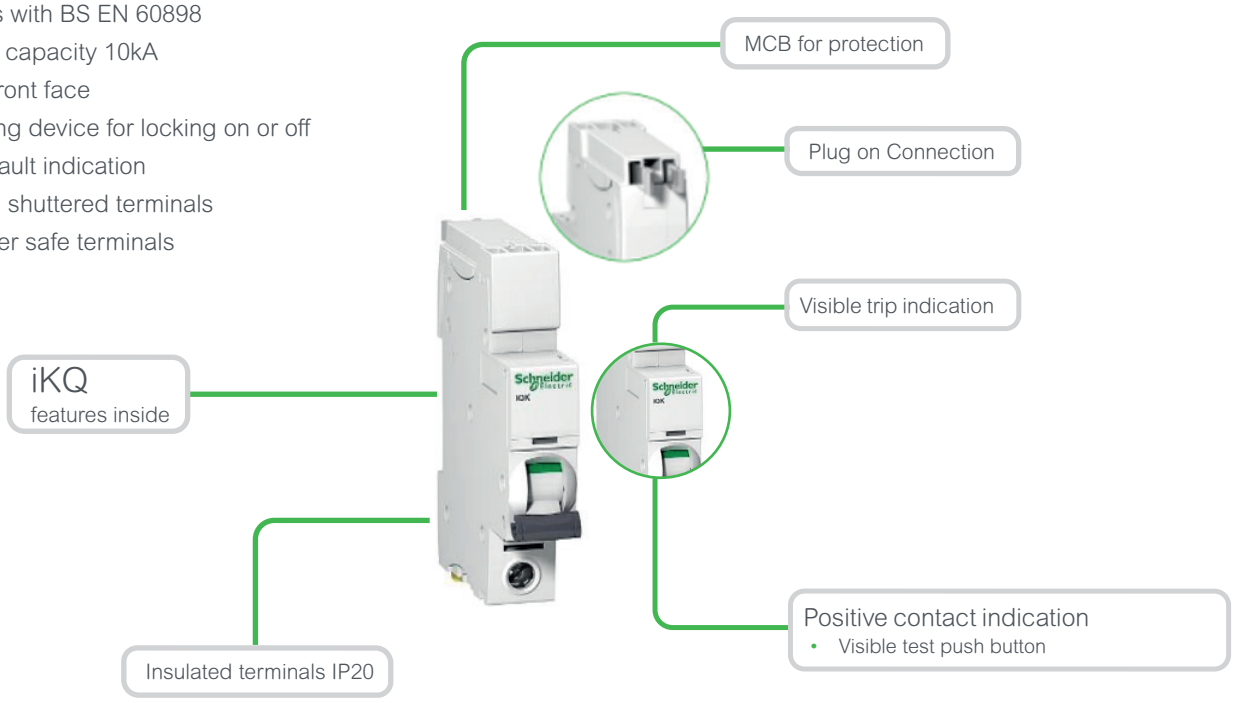
- B Type enclosures with 250A rated busbars and a modular 250A incoming assembly.
- Designed to cater for the most demanding of installations.

Fast & easy installation for the electrician

- Plug on features allow for quick fitting of outgoing devices.
- Fewer terminals to torque test and reduced maintenance and upgrade times.
- Modular and scalable enclosure systems to accommodate extra requirements or devices.

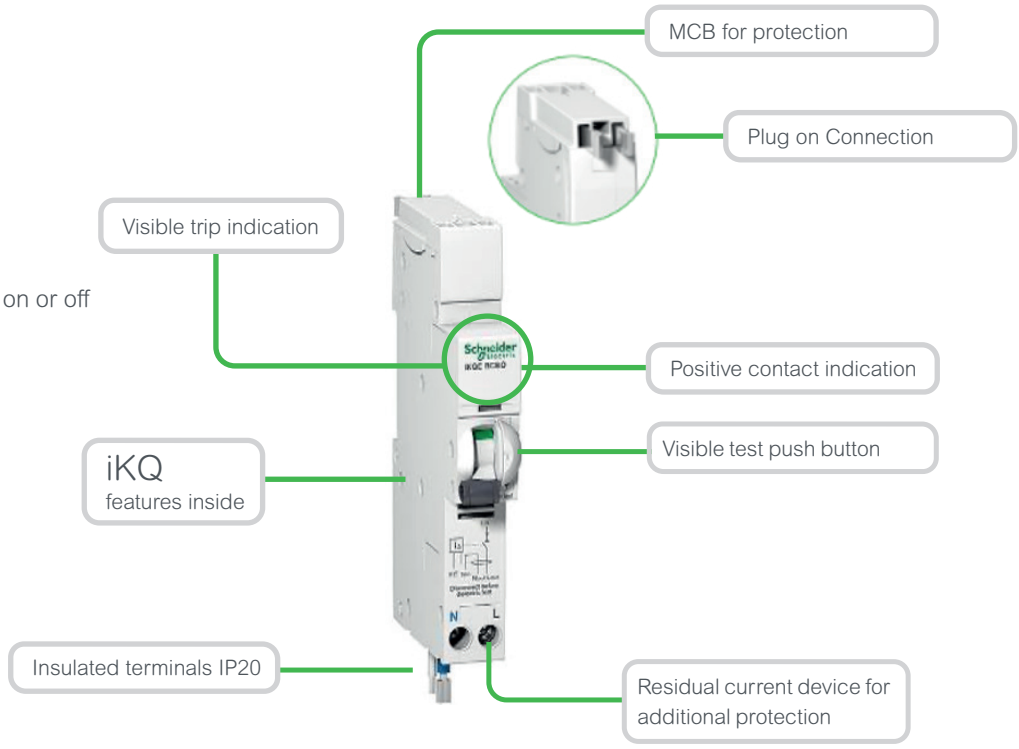
iKQ MCB

- Plug on connection
- Complies with BS EN 60898
- Breaking capacity 10kA
- Class 2 front face
- Padlocking device for locking on or off
- Tripped fault indication
- Insulated shuttered terminals
- IP20 finger safe terminals



iKQ RCBO

- Plug on connection
- B and C curve
- RCD Type A as standard
- Complies with BS EN 61009
- Breaking capacity 10kA
- Class 2 front face
- padlocking device for locking on or off
- Will trip even if neutral is lost
- Tripped fault indication
- Insulated shuttered terminals
- IP20 finger safe terminals



Acti9 Arc Fault Detection Device - iARC

Acti9 iARC is an arc fault detection switch which aims to reduce the risk of electrical fire. By continuously analysing a large number of electrical parameters, it detects the appearance of electric arcs that are responsible for starting fires. It isolates the circuit concerned which reduces flame appearance occurrence.

Regulation 421.1.7 of BS 7671: 2018 (IET Wiring Regulations 18th Edition) requires the use of AFDD to protect against arc fault in AC final circuits in the applications below

- Higher Risk Rseidential Buildings (HRRB)
- House in Multiple Occupation (HMO)
- Purpose-built student accomodation
- Care homes

For all other locations, the use of AFDD is recommended.

More specifically, the installation of Acti9 iARC is highly recommended to protect circuits with highest risk of fire, such as:

- Protruding cables (risk of knocks)
- Outside cables (greater risk of deterioration)
- Unprotected cables in secluded areas (like storage rooms)
- Ageing, deteriorating wiring or wiring for which the connection boxes are inaccessible.

Acti9 iARC must not be installed on circuits requiring a high level of continuity of service.

Acti9 iARC is not compatible with ATEX regulations.

IEC/BS EN 62606

As per the above standard:

The arc fault detection switch Acti9 iARC monitors electric arcs that occur in cables and connections and may cause a fire.
These arcs are the result of localised cable deterioration or loose connections.

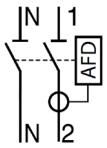
- It is used for three types of situations that can result in a fire:
  - parallel arc detection: insulation problems between two live conductors that cause a resistive short-circuit, too weak to be detected by a circuit breaker and with no earth leakage that would be detected by an earth-leakage protection device,
  - series arc detection: a damaged conductor or connection will cause a local rise in temperature,
  - overheating of electronic components in loads, when exposed to an overvoltage for several seconds.

- It combines the following functions:
  - protection against fire hazards by detection of abnormal electric arcs,
  - protection against load fire hazards due to slow overvoltages (network overvoltage),
  - fire hazard tripping indication via the front panel indicator,
  - positive contact indication (green strip),
  - tripping faults diagnosis by LED blinking in front face.

- Coordinated with a MCB or a RCBO, max. 40 A, it protects phase-neutral circuits, in full coordination under short-circuit conditions up to a rated breaking capacity of 10,000 A

- Product is reverse feeding: it can be supplied either by the top or the bottom.

Catalogue numbers

Acti9 iARC		
Arc Fault Detection Device (AFDD) to IEC/BS EN 62606		
	Rating 40 A (In)	**A9TSB3640**
Operating voltage	230 VAC	
Operating frequency	50 Hz	
Width in 9 mm modules	4	
Pole Configuration	1P+N	

iPRD surge arresters

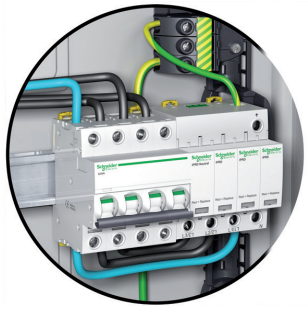
Type 2 or 3 LV withdrawable surge arresters

iPRD surge arresters

PB110281-60

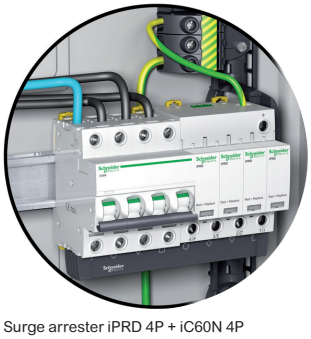
Connection iPRD surge arrester with its short circuit disconnector

TT / TN-S
Power supply through the top
Connection with cables



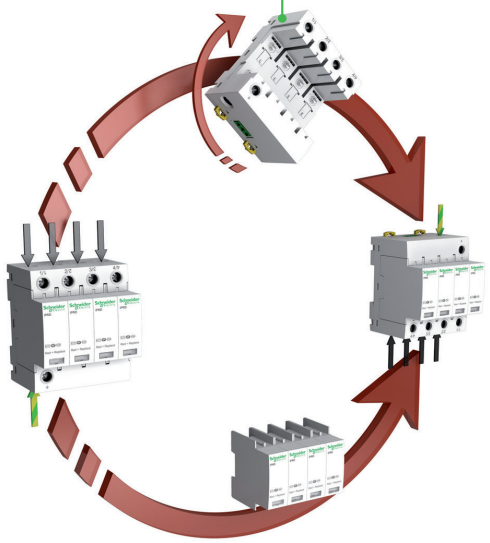
Surge arrester iPRD 3P+N + iC60N 3P+N

IT/TNC-S with neutral
Power supply through the top
Connection with comb busbar

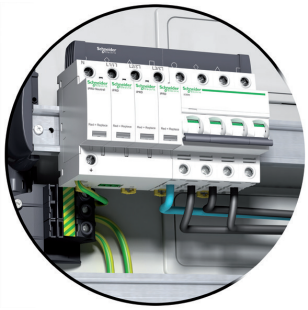


Surge arrester iPRD 4P + iC60N 4P

Reversible
• The surge arrester base can be turned over to allow the phase/ neutral/earth cables to enter through either the top or the bottom

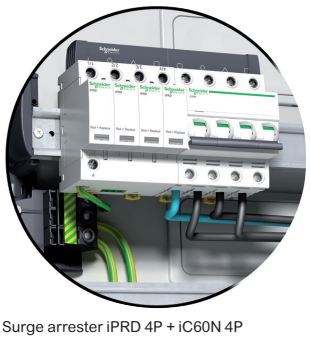


TT / TN-S
Power supply through the bottom
Connection with comb busbar



Surge arrester iPRD 3P+N + iC60N 3P+N

IT/TNC-S with neutral
Power supply through the bottom
Connection with comb busbar



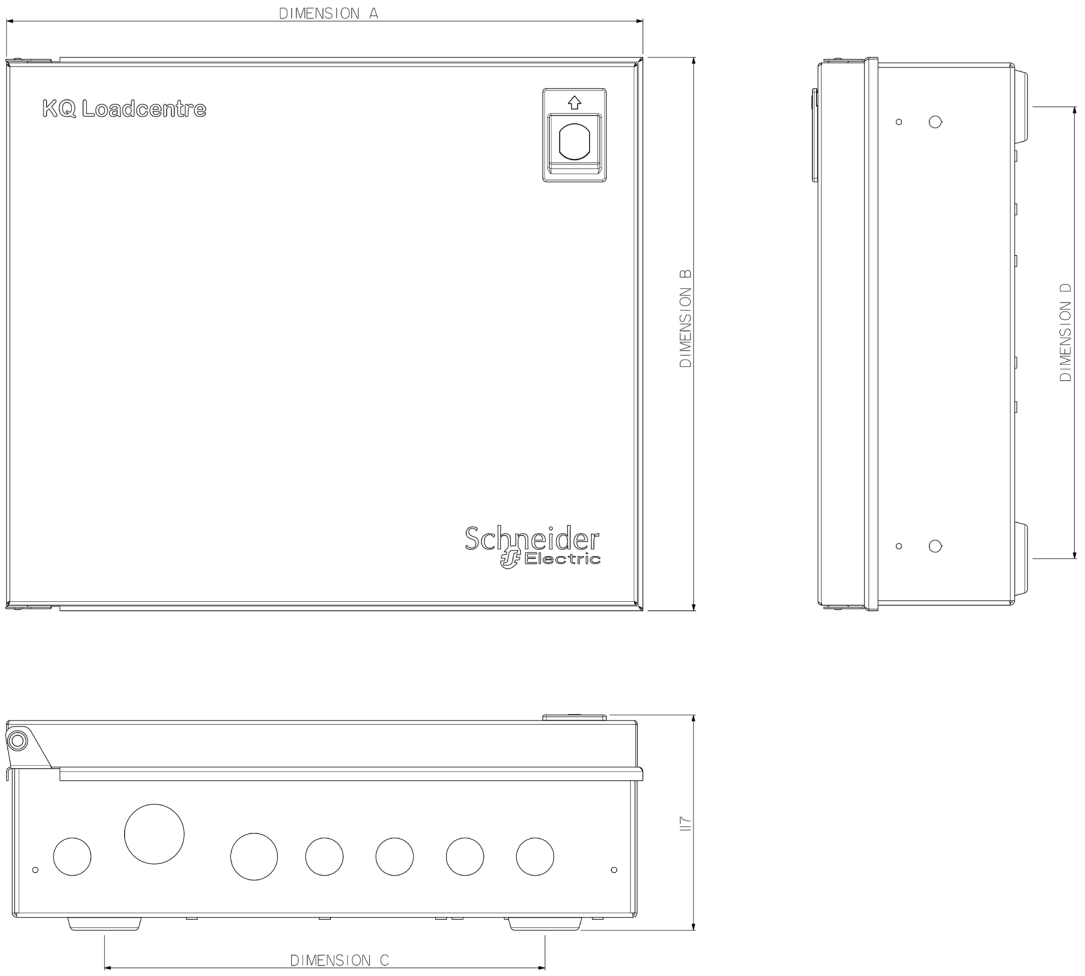
Surge arrester iPRD 4P + iC60N 4P

KQ Loadcentre Dimensions

KQ Loadcentre dimensions

A type distribution board

Part number	Dimensions (mm)			
	A	B	C	D
SE125A6	273	300	166.8	245
SE125A8	345	300	238.8	245
SE125A12	417	300	310.8	245
SE125A16	489	300	382.8	245
SE125A24	417	530	310.8	245
SEAE16	489	300	382.8	245



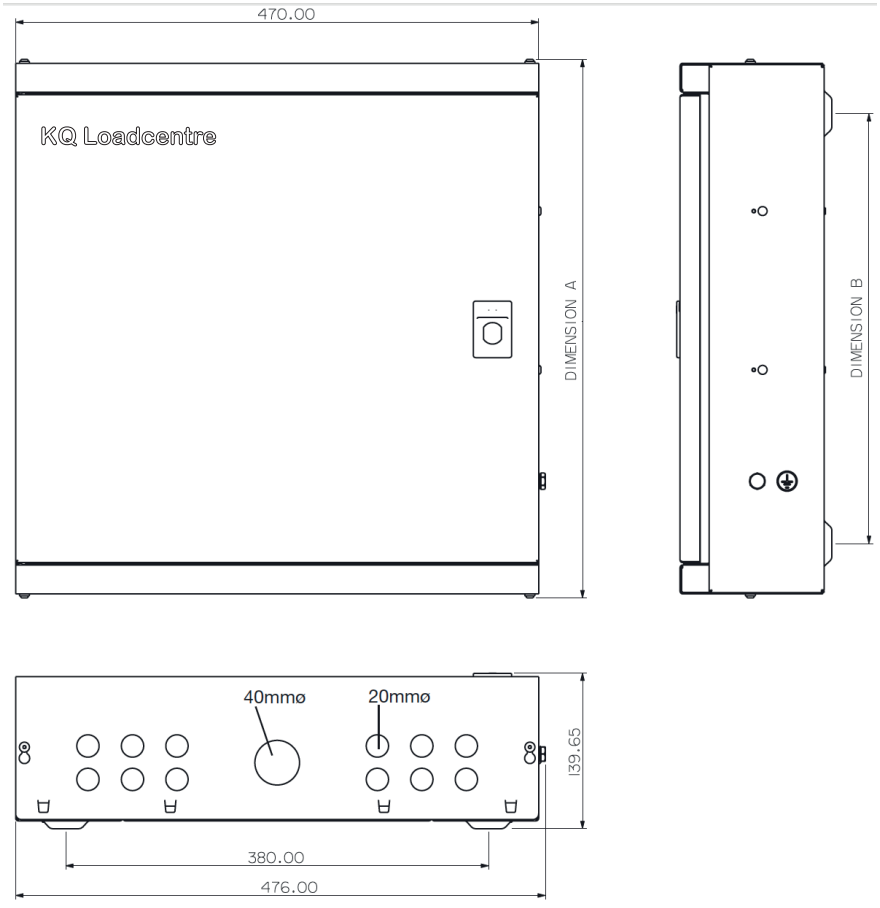
KQ Loadcentre dimensions

B type distribution board - 250A

Part number	Dimensions (mm)		
	A	B	Width
SE12B250	484	386	470
SE18B250	484	386	470
SE24B250	538	440	470
SE36B250	700	602	470
SE48B250	808	710	470
SE54B250	862	764	470
SE72B250	1024	872	470

Split metering distribution boards

Part number	Dimensions (mm)		
	A	B	Width
125 amp	1290	1002	470
250 amp	1694	1406	470



MID 3 Phase kWh kit modbus communications and pulsed output (Includes A9MEM3255)

Reference number	Dimensions (mm)		
	Height	Width	Depth
SE250MET	270	470	139

Split meter board (including incomers)

Reference number	Dimensions (mm)		
	Height	Width	Depth
SEAM10S10	484	470	139
SEAM14S14	530	417	139

Split metering board 125A

Reference number	Dimensions (mm)		
	Height	Width	Depth
SEB36S24125	1290	470	139
SEB42S18125	1290	470	139
SEB48S12125	1290	470	139

Split metering board 250A

Reference number	Dimensions (mm)		
	Height	Width	Depth
SEB36S24250	1290	470	139
SEB42S18250	1290	470	139
SEB48S12250	1290	470	139

Steel enclosures with plain cover and door

Reference number	Dimensions (mm)		
	Height	Width	Depth
SE12BCD	484	470	139
SE18BCD	538	470	139
SE36BCD	700	470	139
SE54BCD	808	470	139

Steel enclosures with DIN rails and a front cover assembly and door

Reference number	Dimensions (mm)		
	Height	Width	Depth
SE12B2D	484	470	139
SE18B2D	538	470	139
SE36B3D	700	470	139
SE54B4D	808	470	139

Steel extension enclosure with 1 row of DIN rails and a front cover assembly and door

Reference number	Dimensions (mm)		
	Height	Width	Depth
SE17BES	270	470	139

Steel extension enclosure

Reference number	Dimensions (mm)		
	Height	Width	Depth
SEBES	270	470	124

Extra service units 125A (combination of a standard board and DIN rail enclosure)

Reference number			Dimensions (mm)		
			Height	Width	Depth
SE12B250	+	SE17BES	270	470	139
SE18B250	+	SE12B2D	484	470	139
SE24B250	+	SE18B2D	538	470	139
SE36B250	+	SE36B3D	700	470	139
SE48B250	+	SE54B4D	808	470	139


Life Is On

Introduction to Offer

Easy9

- The **Easy9** residential consumer unit and circuit protection supports you as an electrician, helping you be more effective
- Circuit protection you can depend on. A complete range of protection devices including circuit breakers, residual current devices, switches, surge protection devices, arc fault detection devices (AFDDs) that cover all needs for electrical protection for residential applications

Easy9 Plus

The fully compliant BS 7671 metal enclosure with magnetic door closure provides:

- **Reversible enclosure door -** Central fixing points enable the door to open from top or bottom, providing flexibility and increased installation options
- **Flush mounted flexibility - Easy9** can be flush mounted, reducing obtrusion into living and communal spaces
- **Increased cabling space -** Cabling space has been significantly improved for the ever-increasing demands and circuit ways on a consumer unit
- **Improved cable entries -** The trouble-free and rounded knockouts allow for both conduit or trunking applications, always ensuring a neat finish to any job

Easy9 Compact

The fully compliant BS 7671 metal enclosure provides:

- **Compact design -** Ideal for restricted spaces
- **Flexible incomer position -** Can be fitted on either the left or right hand-side of the consumer unit
- **Flexible circuit configuration -** Removable Neutral Terminal U-links allowing RCBO or split load circuits
- **Multiple cable entries -** Multiple knockouts on all sides of the enclosure enable the routing of cables on all sides of the Consumer unit
- **Offset, removable, and raised DIN position -** Suitable for RCBO Installation and easy cable routing
- **Low profile lid -** Makes it easier to access and open the door inside restricted spaces
- **Earth continuity -** Making sure all metallic components are effectively grounded for safety of your application

Easy9 Multirow

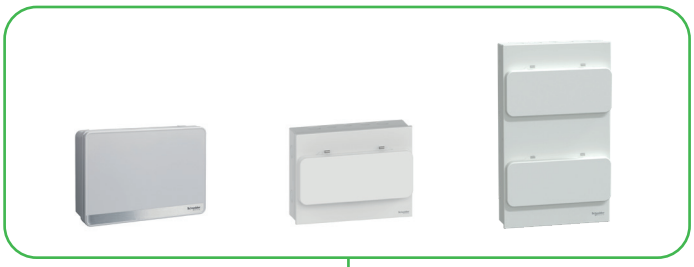
- **All the benefits of Easy9 Compact - Easy9** Multirow uses all the benefits of the **Easy9** Compact Consumer unit with the added value of more space
- **Multiple rows -** 2 row or 3 row options giving 22ways or 34ways ready for multiple circuit protection needs of the future
- **Low profile cover -** Keeping the low-profile cover on each of the rows making it easier to access and open the door inside restricted spaces
- **Dedicated comb busbar -** For different configurations and feeding the **Easy9** multifunction AFDD

Product Selection Steps

The right selection of enclosure, compatible devices and accessories is very important for the correct functioning of a consumer unit. Take a look at the necessary steps below:

Step 1:

Select Consumer Unit



Step 2:

Select Incomer Devices

Step 3:

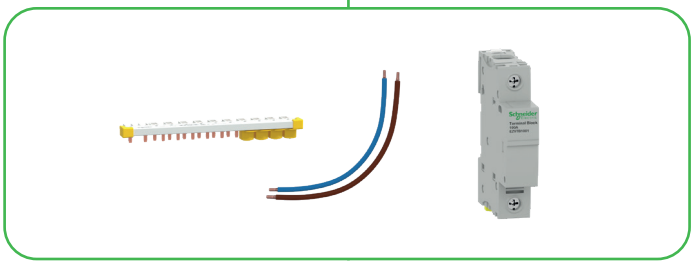
Select Surge Protection Devices

Step 4:

Select Outgoing Devices

Step 5:

Select Accessories



Easy9 Plus

Easy9 Plus Overview

Premium Enclosure Design

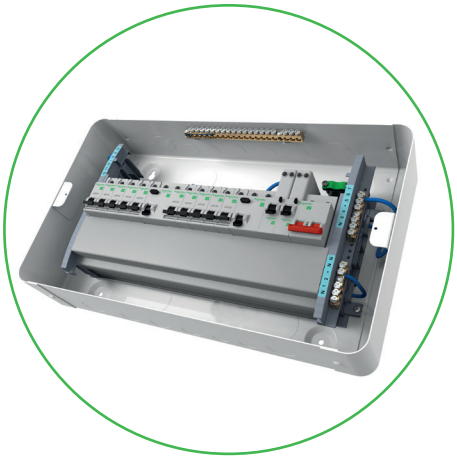
Compliant with the requirements of BS7671 18th Edition. Magnetic door closure and soft rounded corners.

Reversible Enclosure Door

Central fixing points enable the door to open from top or bottom, providing flexibility and increased installation options.

Increased Cabling Space

Cabling space has been significantly improved for the ever increasing demands and circuit ways on a consumer unit.



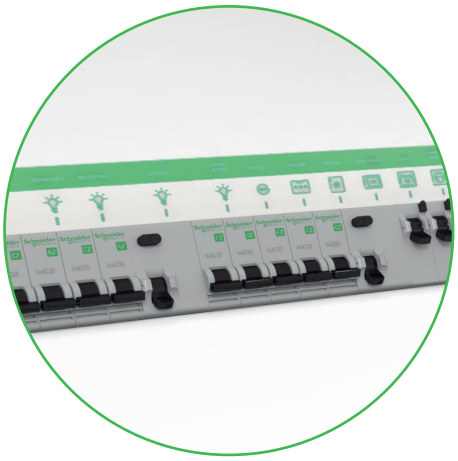
Easy9 Plus Overview

Improved Cable Entries

Four large rear knockouts and additional top and bottom knockouts with left and right entries for incoming cables provide maximum flexibility for all your cabling needs.

Clear Labelling Kit

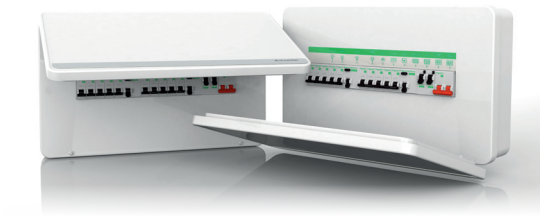
Both ranges include improved labelling kits with clear pictograms and supporting text, ensuring every install is finished neatly and easily identifiable for the end user.



Semi-Flush Mounted Flexibility

Easy9 Plus can be semi-flush mounted, reducing obtrusion into living and communal spaces.

Easy9 Plus Board Detail



Description:

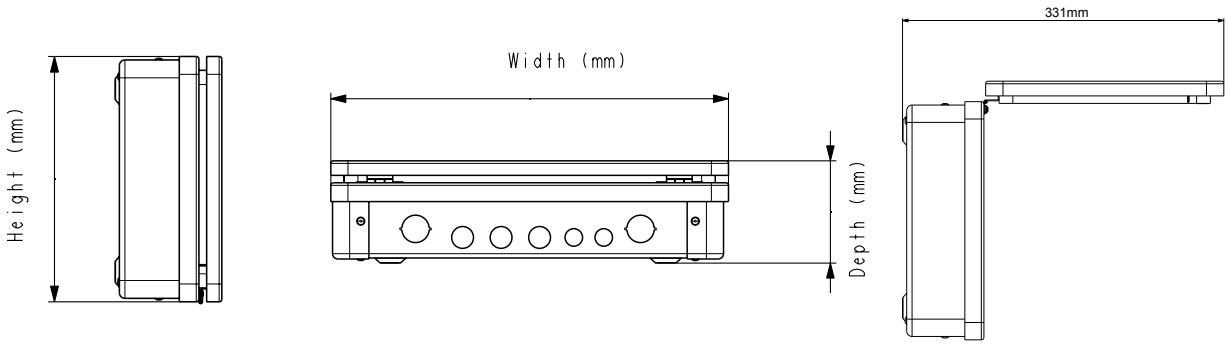
- Metal surface/ recessed enclosures
- Multiple cable entry points
- Multiple rear knock out slots
- Secure raised DIN rail
- Earth and neutral blocks fitted as standard
- Secure raised busbar shield
- Earthed front cover
- Reversible door
- Can be mounted horizontally or vertically
- Enclosure colour white RAL9003
- Neutral bar shields
- BSEN 61439-3
- IP3X

Easy9 Plus Empty consumer units

Reference No	Description	Usable Ways
EZ9E2MCU	2 way metal consumer unit	2
EZ9E4MCU	4 way metal consumer unit	4
EZ9E6MCU	6 way metal consumer unit	6
EZ9E8MCU	8 way metal consumer unit	8
EZ9E12MCU	12 way metal consumer unit	12
EZ9E16MCU	16 way metal consumer unit	16
EZ9E20MCU	20 way metal consumer unit	20

Easy9 Plus Dimensions

Reference No	Type	Usable Ways	Height (mm)	Width (mm)	Depth (mm)
EZ9E2MCU	Standard	2	277	213	120
EZ9E4MCU	Standard	4	277	249	120
EZ9E6MCU	Standard	6	277	285	120
EZ9E8MCU	Standard	8	277	321	120
EZ9E12MCU	Standard	12	277	393	120
EZ9E16MCU	Standard	16	277	465	120
EZ9E20MCU	Standard	20	277	537	120



Populated & Part Populated Consumer Units

Multiple populated and part populated **Easy9** Plus consumer units complete with incoming switch, RCD protection and optional MCBs and Surge protection.

Surge Protection

Reference	Description	Usable Ways	Unprotected Ways	RCD1 Ways	RCD2 Ways
EZ9ESLR7R6CTAMCU	EZ9+ 7+6 100A SW 2xA-RCCB +SPD	13	-	7	6
EZ9ESL3R5R5CTAMCU	EZ9+ 3+5+5 100A SW 2xA-RCCB +SPD	13	3	5	5

Dual RCD

Reference	Description	Usable Ways	Unprotected Ways	RCD1 Ways	RCD2 Ways
EZ9ER6R6CTAMCU	EZ9+ 6+6 100A SW 2xA-RCCB	12	-	6	6
EZ9ER8R8CTAMCU	EZ9+ 8+8 100A SW 2xA-RCCB	16	-	8	8

Multiple Split

Reference	Description	Usable Ways	Unprotected Ways	RCD1 Ways	RCD2 Ways
EZ9ES2R5R5CTAMCU	EZ9+ 2+5+5 100A SW 2xA-RCCB	12	2	5	5
EZ9ES2R7R7CTAMCU	EZ9+ 2+7+7 100A SW 2xA-RCCB	16	2	7	7

Flexible Split

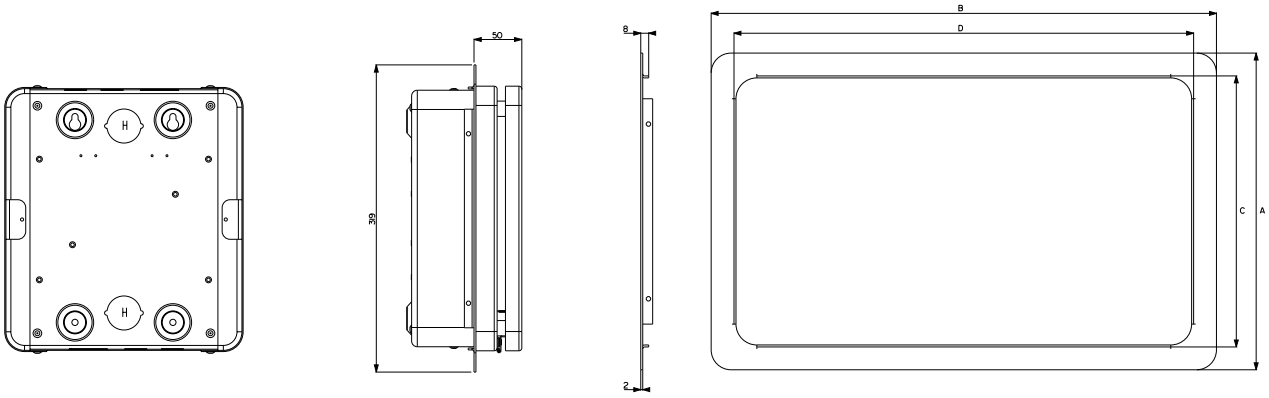
Reference	Description	Usable Ways	Max Unprotected Ways	Max RCD1 Ways	Max RCD2 Ways
EZ9EFS12CTAMCU	EZ9+ CU Flex 12w 100A SW 2xA-RCCB	12	4	7	7
EZ9EFS16CTAMCU	EZ9+ CU Flex 16w 100A SW 2xA-RCCB	16	4	9	9

Populated Consumer Units

Reference	Description	Usable Ways	Unprotected Ways	RCD1 Ways	RCD2 Ways
EZ9ER6R6CTAMRE	EZ9 6+6 Kit 100A SW 2xA-RCCB 8MCB	12	-	6	6
EZ9ES2R5R5CTAMRE	EZ9+ 2+5+5 100A SW 2xA-RCCB 8MCB	12	2	5	5

Easy9 Plus Semi-flush mounting frame

		External Dimensions (mm)		External Dimensions (mm)	
Reference No	Description	A	B	C	D
EZ9EFLKIT16	EZ9 SEMI-FLUSH MOUNT 16	319	509	273	463
EZ9EFLKIT20	EZ9 SEMI-FLUSH MOUNT 20	319	581	273	535



Easy9 Compact

Easy9 CCU Overview

Low Profile Cover

Compact Lid with Finger grips
Makes it easier to access and open the door inside restricted spaces

Earth Continuity

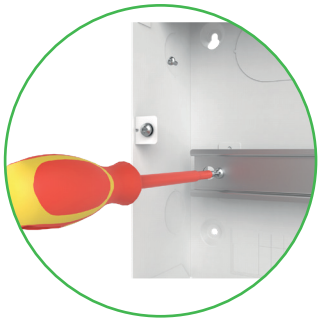
Earth continuity providing a safe install
It makes sure all metallic components are effectively grounded for safety of your application

Multiple Cable Entries

Multiple knockouts on all sides of the enclosure
Allows flexibility to route cables on all sides of the Consumer unit for your applications

Removable DIN Rail

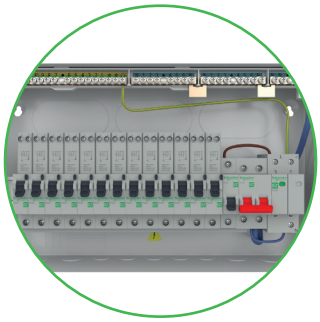
Quick release DIN rail design utilising keyhole fixings
Brings in the adaptability to organise the cables in position before mounting the devices



Easy9 CCU Overview

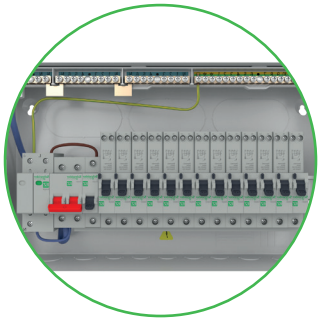
RCBO or Split Load Configuration

With the removable Neutral Terminal U links, the neutral bars are customisable to provide solutions for RCBO or split circuits - Flexibility to have multiple configurations with RCDs and MCB devices



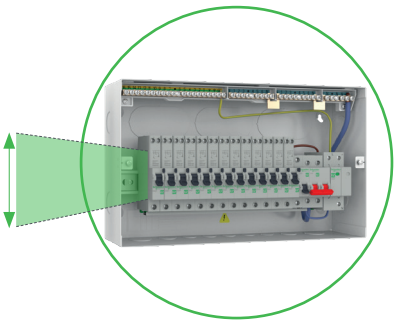
Incomer Position on Left or Right

Optimised design of the Terminal bars and Cables gives the flexibility of connecting the incomer on either the left or right hand-side ends of the consumer unit - Brings flexibility to your installations



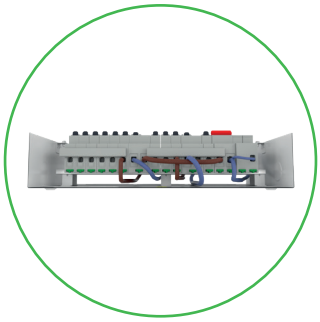
Offset DIN Position

Lower DIN rail to provide additional space for RCBO installation - More flexibility to mount any circuit protection device of your choice in your design



Raised DIN Rail

Facilitates ease of cable routing - Raised DIN rail provides access to cable routing for ease of installation.



Easy9 CCU Board Detail

Description:

- Current Rating: 100A
- Metallic Compact Consumer Unit
- IP3X Safety
- White Color RAL9003
- Multiple cable entry knockouts
- Rigid, raised and Offset DIN rail design
- Earth and neutral blocks fitted as standard
- Insulated comb busbar & neutral cable included
- Earthing continuity for all metallic parts
- Compliance to BSEN 61439-3

Easy9 Empty compact consumer units

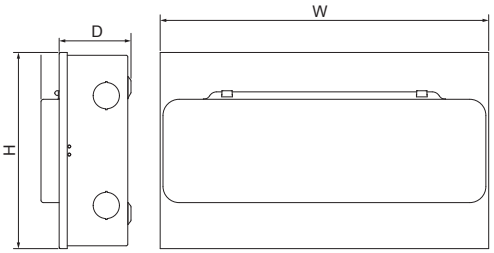
Reference No	Description	Usable Ways
EZ9E10MCCU	10 way metal consumer unit	10
EZ9E12MCCU	12 way metal consumer unit	12
EZ9E16MCCU	16 way metal consumer unit	16

Easy9 Compact Consumer Unit Part Populated Kits

Reference No	Description	Usable Ways
EZ9CCU12SWTSPD	12 way metal consumer unit with 100A incomer and **Easy9** SPD Kit	9
EZ9CCU16SWTSPD	16 way metal consumer unit with 100A incomer and **Easy9** SPD Kit	13
EZ9CCU16SPLTSPD	16 way metal consumer unit with 100A incomer, 2x RCCBs, cable kit and **Easy9** SPD Kit	9

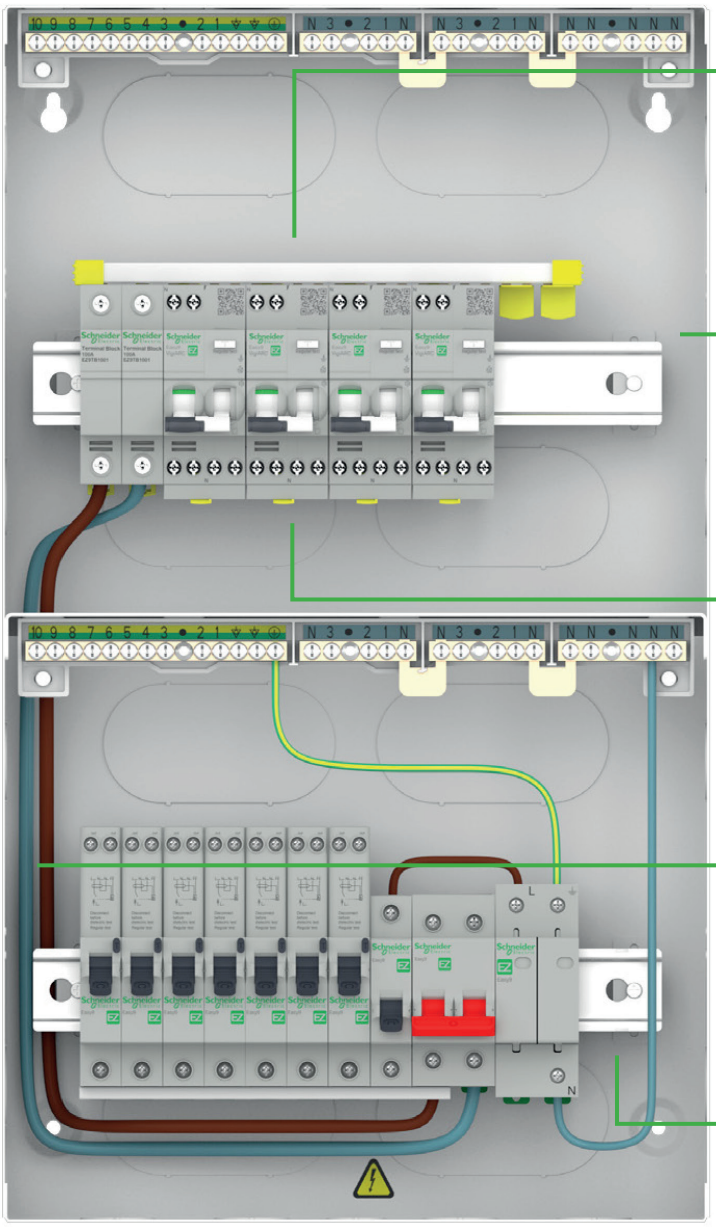
Technical Details

Reference No	Type	Usable Ways	Height (mm)	Width (mm)	Depth (mm)	Depth without lid (d)
EZ9E10MCCU	Standard	10	243	312	111.5	89
EZ9E12MCCU	Standard	12	243	347	111.5	89
EZ9E16MCCU	Standard	16	243	407	111.5	89
EZ9CCU12SWTSPD	Part Populated Kit RCBO Configuration	9	243	347	111.5	89
EZ9CCU16SWTSPD	Part Populated Kit RCBO Configuration	13	243	407	111.5	89
EZ9CCU16SPLTSPD	Part Populated Kits Split Load Configuration	9	243	407	111.5	89



Easy9 Multirow

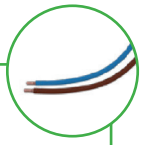
Easy9 Compact Multirow Overview



Easy to install
with dedicated comb busbar and terminal block

Flexibility in configuration
with RCBO, AFDD, or split circuit installation

Supports AFDD installation
with **Easy9** Compact accessories



Extra cable space
makes it easy to connect RCBOs

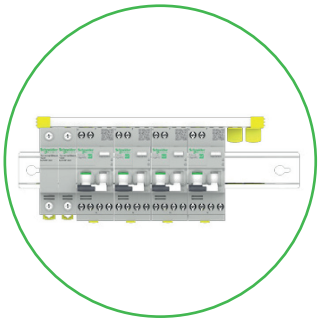
Suitable for larger installation
with more modular capacity

Multiple cable entry knockouts with flexibility to route the cables on top or bottom

Easy9 Compact Multirow Overview

Dedicated Comb Busbar for AFDD

Dedicated comb busbar
for different configurations
and feeding the **Easy9**
multifunction AFDD



Low Profile Cover

Compact Lid with Finger grips
Makes it easier to access and open
the door inside restricted spaces

Earth Continuity

Earth continuity providing a safe install
It makes sure all metallic components are
effectively grounded for safety of your
application

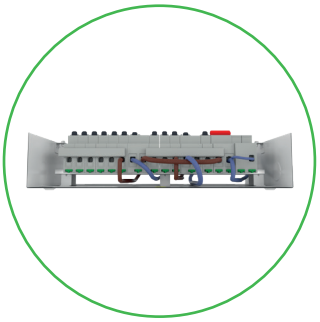
Multiple Cable Entries

Multiple knockouts on all sides of the enclosure
Allows flexibility to route cables on all sides of the
Consumer unit for your applications

Easy9 Compact Multirow Overview

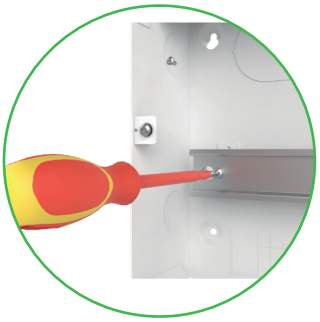
Raised DIN Rail

Facilitates ease of cable routing
Raised DIN rail provides access to cable routing for ease of installation



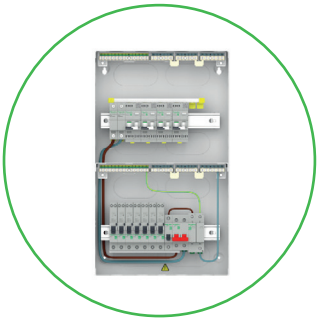
Removable DIN Rail

Quick release DIN rail design utilising keyhole fixings
Allows adaptability to organise the cables in position before mounting the devices



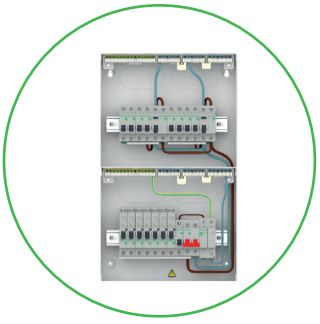
Flexible Configuration

With the removable neutralterminal U links, the neutral bars are customisable to provide solutions for RCBO or split circuits providing flexibility to have multiple configurations with RCDs and MCBs



Incomer Position on Left or Right

Optimised design of the Terminal bars and Cables gives the flexibility of connecting the incomer on either the left or righ hand-side ends of the consumer unit
Brings flexibility to your installations



Easy9 Compact Multirow Board Detail

Description:

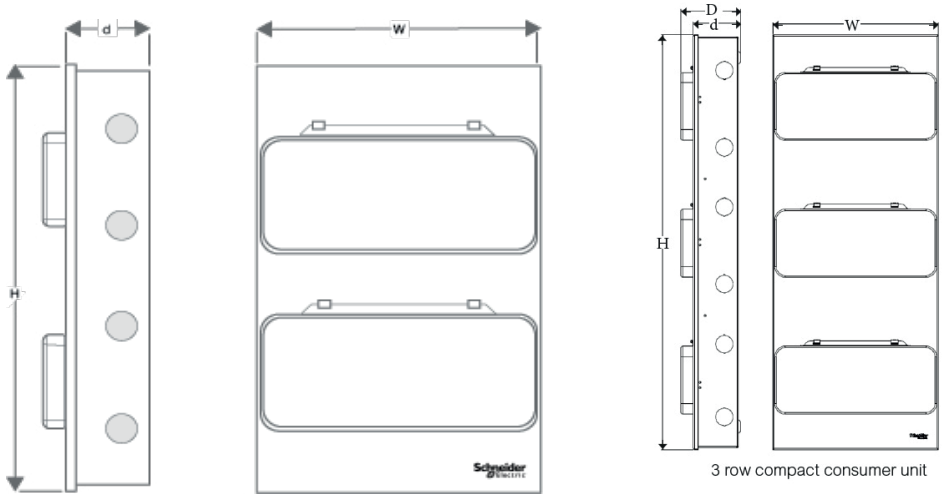
- Current rating: 100A
- Metallic compact consumer unit
- IP3X safety
- White colour RAL9003
- Multiple cable entry knockouts
- Rigid, raised and offset DIN rail design
- Earth and neutral blocks fitted as standard
- Insulated comb busbar and neutral cable included
- Earthing continuity for all metallic parts
- Compliance to BS EN 61439-3

Easy9 Compact Multirow empty consumer units

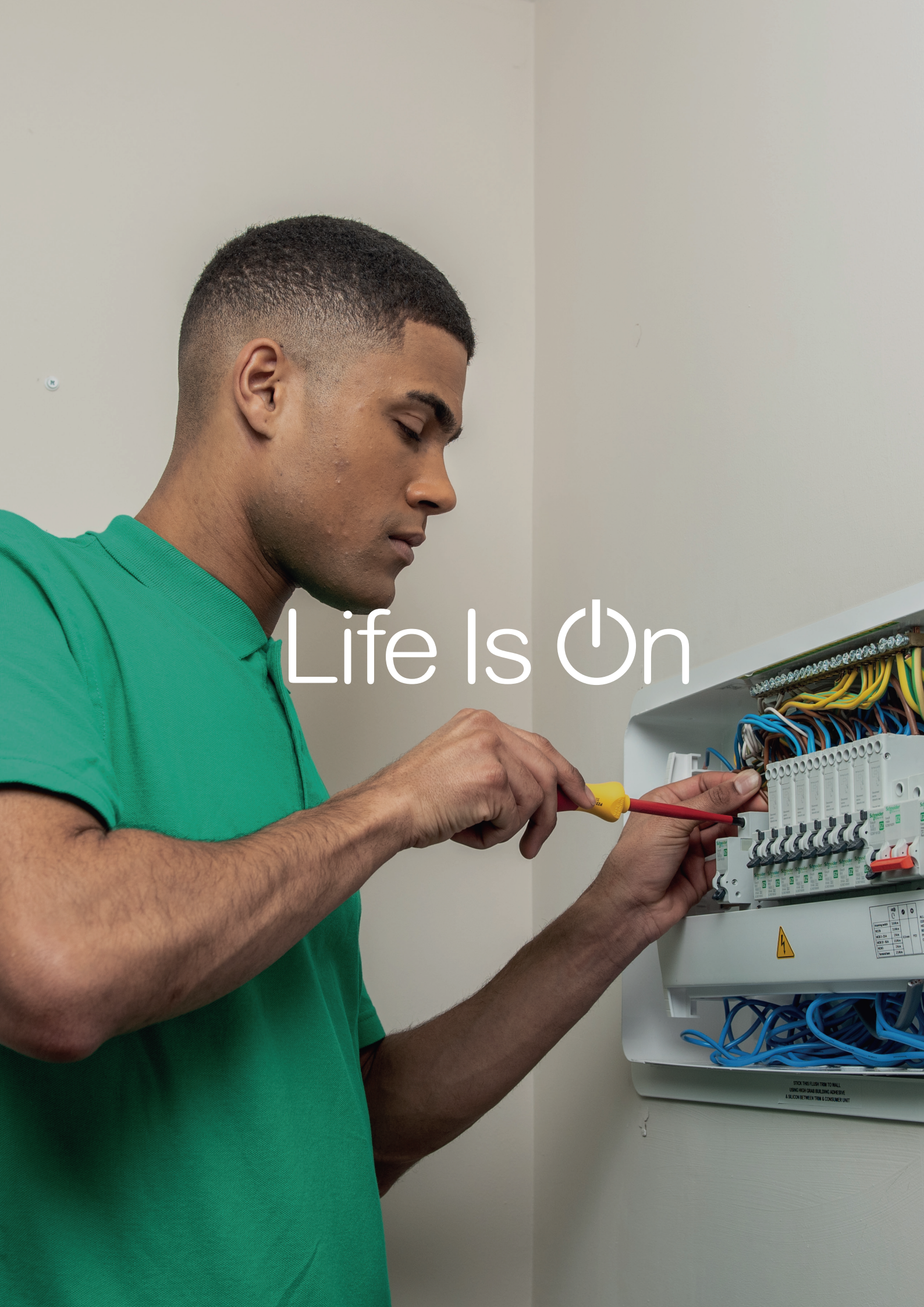
Reference No	Description	Total Ways	Usable ways
EZ9E212MCCU	2 Row, 12 modules each	24	22
EZ9E312MCCU	3 Row, 12 modules each	36	34

Technical Details

Reference No	Type	Usable Ways	Height (mm)	Width (mm)	Depth (mm)	Depth without lid (mm)
EZ9E212MCCU	Standard	22	522.4	312	111.7	89.2
EZ9E312MCCU	Standard	34	780.4	312	111.7	89.2

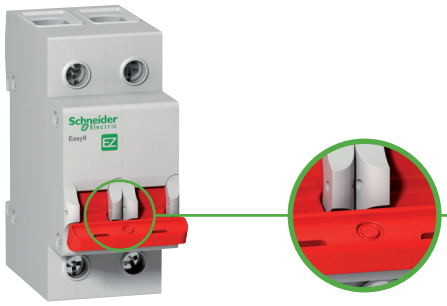


3 row compact consumer unit


Life Is On

Easy9 Incoming Devices

Switch-Disconnectors
BS EN 60947-3



- Positive contact indication
- Suitable for isolation according to BSEN 60947-3 standard
- Manual control on front face by O-I lever

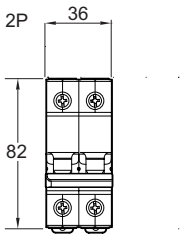
Characteristics

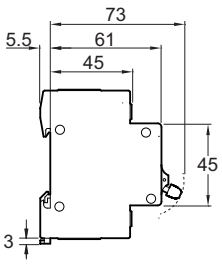
Main characteristics	
Operating category	AC-22 A
Permissible rated short-time withstand current (Icw)	12 Ie, 1 second
Conditional rated short-circuit current (Inc)	5000 A
Rated short-circuit closing current (Icm)	15 Ie

Additional characteristics			
Degree of protection (IEC 60529)	Device only	IP20	
Endurance (O-C)	Mechanical	40 -100 A	8500 cycles
	Electrical	40-100 A	1500 cycles
Operating temperature		-5°C to +55°C	
Storage temperature		-5°C to +70°C	
Tropicalisation (IEC 60068-1)		Treatment 2 (relative humidity 95 % to 55°C)	

Weight (g) and Dimensions (mm)

Weight (g)	
Type	**Easy9** switch-disconnector
2P	175





RCCB residual current circuit breakers

BS EN 61008-1

Positive contact indication.
Fault tripping indication on the front panel by the position of the handle
(O - I engraved)

Characteristics

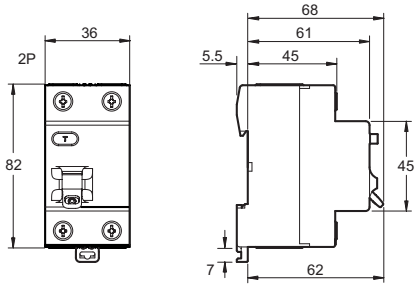
Main characteristics	
Rated impulse withstand voltage (Uimp)	4 kV
According to IEC 61008-1	
Making and breaking capacity (Im/IDm)	500 A

Additional characteristics		
Degree of protection (IEC 60529)	Device only	IP20
Hazardous substances		RoHS 2003 compliant
Tropicalisation (IEC 60068-1)		Treatment 2 (relative humidity 95 % to 55°C)

Passive, will not trip in the event of a voltage loss

Weight (g) and Dimensions (mm)

Weight (g)	
Type	**Easy9** RCCB
2P	195



Miniature Circuit Breakers 6kA

BS EN 60898-1

Easy9 circuit breakers combine the following functions:

- Circuit protection against short-circuit currents.
- Circuit protection against overload currents.

Fault tripping indication on the front panel by position of the handle
(O-I engraved)

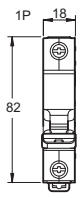
Characteristics

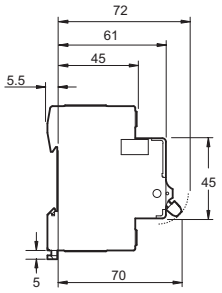
Main characteristics		
Voltage rating (Ue)		230/400 V AC
Operating frequency		50/60 Hz
Electrical feeding		By the top and bottom

Additional characteristics		
Degree of protection (IEC 60529)	Device only	IP20
Hazardous substances		RoHS 2003 compliant
Tropicalisation (IEC 60068-1)		Treatment 2 (relative humidity 95 % to 55°C)

Weight (g) and Dimensions (mm)

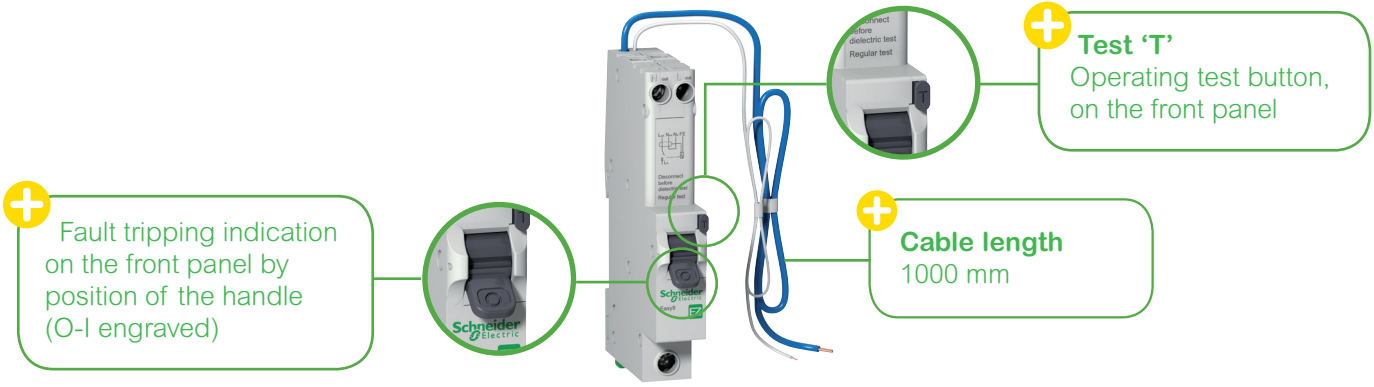
Weight (g)	
Type	**Easy9** MCB
1P	100





RCBO Residual Current Devices 6kA

BS EN 61009-1



Characteristics

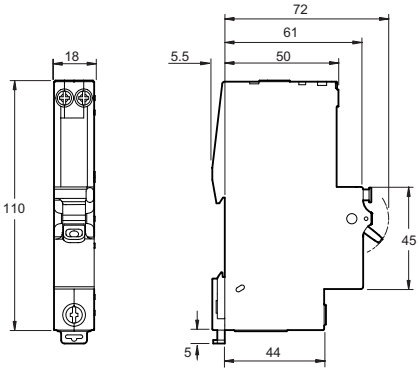
Main characteristics		
Endurance (O-C)	Electrical	4000 cycles
	Mechanical	10000 cycles

Passive, will not trip in the event of a voltage loss

Additional characteristics		
Degree of protection	Device only	IP20
Overvoltage category (IEC 60364)		IV
Operating temperature		-15°C to +60°C
Storage temperature		-40°C to +85°C
Hazardous substances		RoHS 2003 compliant
Tropicalisation (IEC 60068-1)		Treatment 2 (relative humidity 95 % to 55°C)

Weight (g) and Dimensions (mm)

Weight (g)	
Type	**Easy9** RCBO
1P+N	180



RCBO Arc Fault Detection Device

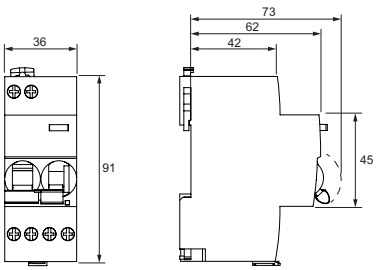
BS/EN 62606 , BS/EN 61009-2-1
As per the above standards:

Functions

- Protection against short-circuits;
- Protection of cable against overloads;
- Protection of persons against electric shocks;
- Protection against fire hazards due to persistent earth fault current;
- Blinking LED allows tripping faults to be diagnosed

Connection		
Rigid copper cables		
L and N	1 to 16 mm²	Tightening torque: 2 N.m
Flexible copper cables		
L and N	1 to 10 mm²	Tightening torque: 2 N.m

Dimensions (mm)



Certified compliant BS/EN 62606 , BS/EN 61009-2-1

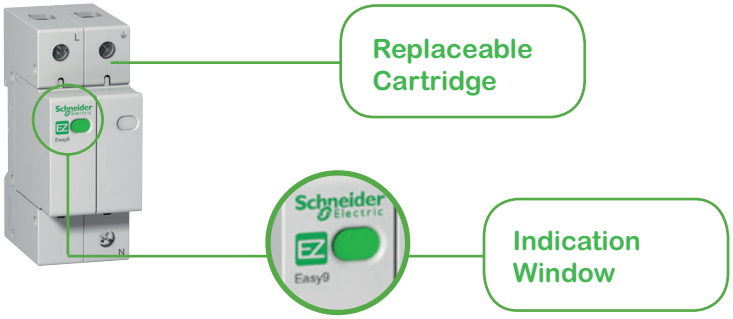
Additional feature

Tripping time/arc current value with Un = 230 V AC (to BS/EN 62606)	Arc current	2.5 A	5 A	10 A	16 A	40 A
	Max. operating time	1 s	0.5 s	0.25 s	0.15 s	0.12 s
Overvoltage time limits	Voltage (V AC)	255	275	300	350	400
	Max. operating time	No tripping	15 s	5 s	0.75 s	0.20 s
	Min. non-response time		3 s	1 s	0.25 s	0.07 s

Insulation voltage (Ui)		250 V AC
Rated impulse withstand voltage (Uimp)		4 kV
Rated breaking capacity (Icn)		6000 A
Rated residual breaking and making capacity (IDm)		3000 A
Endurance (O-C)	Electrical	4000 cycles
	Mechanical	10000 cycles
Degree of protection	Device only	IP20
	Device in modular enclosure	IP40 Insulation class II
Operating temperature		-25°C to +60°C
Storage temperature		-40°C to +85°C
Tropicalisation (to BS/EN 62606)		Severity B (to IEC 60068-2-30) during 28 days
Protection Type		RCBO + AFDD
Earth-leakage protection class		Type A-SI (Super Immunised)

Surge Protection Device Type 2

BS EN 61643-1



Characteristics

Main characteristics		
Network maximum voltage	Ph / N	230 V, 50/60 Hz

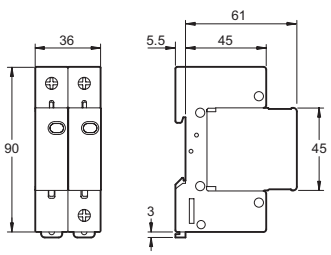
Additional characteristics		
Degree of protection (IEC 60529)	Device only	IP20
	Device in modular enclosure	IP40
Storage temperature		-5°C to +70°C
Operating temperature		-5°C to +60°C

Not to be used with TT earthing systems

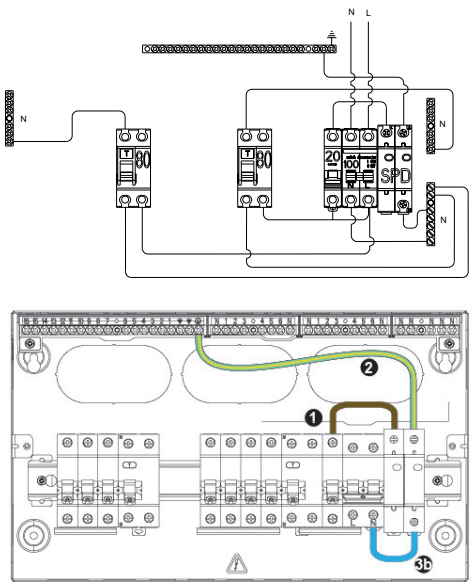
Certified compliant with IEC 61 643-11 type 2

Weight (g) and Dimensions (mm)

Type	
Type	**Easy9** SPD
1P+N	188



Wiring Diagram



Selection of Incomer Devices

2P Switch-Disconnectors

Reference No	Device	Description	Rating (Ie)	Voltage rating (Ue)	Width in 9mm modules
EZ9S16263	Switch	Switch disconnector 2P 63A	63A	400V, 50/60Hz	4
EZ9S16291	Switch	Switch disconnector 2P 100A	100A	400V, 50/60Hz	4

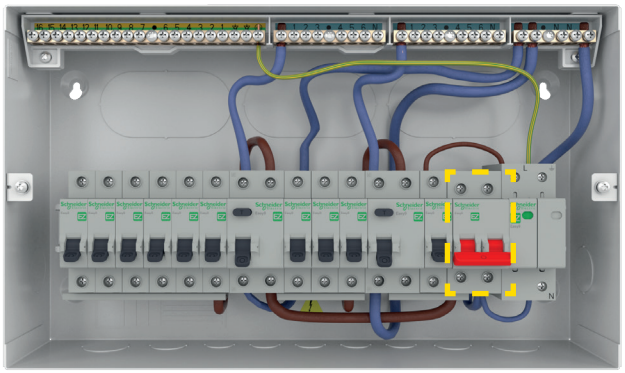
Residual Current Circuit Breakers (RCCB)

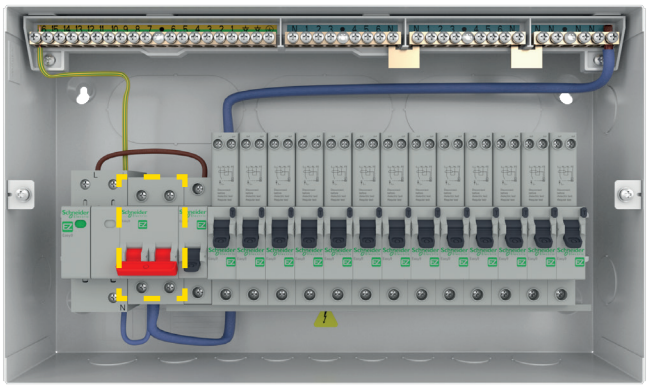
Reference No	Device	Description	Rating (Ie)	Voltage rating (Ue)	Width in 9mm modules
EZ9R46263	RCCB	RCCB 63A 30mA A-Type 230V	63A	127 -230v, 0/60Hz	4
EZ9R46291	RCCB	RCCB 100A, 30mA A-Type 230V	100A	127 -230v, 0/60Hz	4

Flexibility to connect Incomers in Right or Left side

Optimsed design of the Terminal bars and Cable gives the flexibility to connect the incomer on either the left or right hand-side of the consumer unit.

This offers more flexibility when the board is being installed.

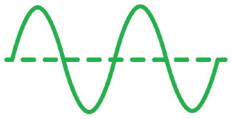




Selection of Outgoing Devices

RCBO 1P+N Type - A 30mA

Rating (In)	B Curve
6 A	EZ9D16806
10 A	EZ9D16810
16 A	EZ9D16816
20 A	EZ9D16820
25 A	EZ9D16825
32 A	EZ9D16832
40 A	EZ9D16840
50 A	EZ9D16850
Voltage Rating (Ue)	230 V AC, 50 Hz
Width in 9-mm modules	2

Type of residual current device	Waveforms	Currents	Supply circuit protection
AC Type		Residual sinusoidal alternative current	Current loads
A Type		Residual pulsating direct current	Loads including rectifiers (rectifiers / chargers...) powered by singlephase network
		Residual pulsating direct current superimposed by smooth direct current up to 6 mA	

Refer Annex 2 for more information on RCD selection guide

1P Minature Circuit Breakers

Rating (In)	Curve B	Curve C
3 A	EZ9F16103	-
6 A	EZ9F16106	EZ9F66106
10 A	EZ9F16110	EZ9F66110
16 A	EZ9F16116	EZ9F66116
20 A	EZ9F16120	EZ9F66120
25 A	EZ9F16125	-
32 A	EZ9F16132	EZ9F66132
40 A	EZ9F16140	EZ9F66140
50 A	EZ9F16150	-
Voltage Rating (Ue)	230 V AC 50/60 Hz	
Width in 9-mm modules	2	

Refer Annex 3 for more information on MCB selection guide

Selection of Surge Protection Devices

1P+N Easy9 Surge Arrester

Reference	Description	Rated	Type	Kit	Width
EZ9L33620*	**Easy9** Surge Arrester Type 2 - 20kA - 1P+N	20kA	2	No	36mm
EZ9L33620KIT	**Easy9** Surge Arrester Kit Type 2 - 20kA - 1P+N. Complete with cables & protective MCB	20kA	2	Yes	-

*Requires a 20amp MCB (EZ9F16120) or order Surge protection kit (EZ9L33620KIT) c/w MCB and cables.

Selection of Outgoing Devices

Arc Fault Detection Device (AFDD) - B Curve

Rating (In)	Reference No.
6 A	EZ9TDA7606
10 A	EZ9TDA7610
16 A	EZ9TDA7616
20 A	EZ9TDA7620
32 A	EZ9TDA7632
40 A	EZ9TDA7640

Main Characteristics	
Voltage rating (Ue)	230 V AC, 50 Hz
Width in 9-mm modules	4
Pole Capacity	1P+N
Protection Type	RCBO + AFDD
Earth-leakage protection class	Type A-SI (Super Immunised)

Mandatory use of AFDDs Recommended by BS 7671:2018+A2:2022

- Higher Risk Residential Buildings (HRRB).
- Houses in Multiple Occupation (HMO)
- Purpose built student accommodation
- Care homes

AFDD protects against short circuit, cable overload, electrical shock by indirect contact and fire hazards.

A flashing LED will indicate which of the following faults has occurred:

- Earth leakage
- Parallel arc
- Series arc
- Overvoltage
- Internal fault

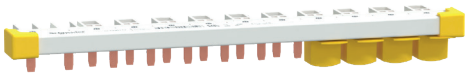
Refer Annex 1 for more information on AFDD selection guide

Selection of Accessories

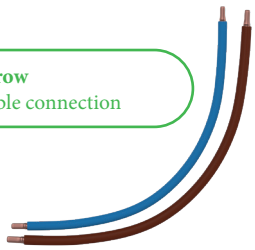
Easy9 Plus and Easy9 Compact accessories are made to support :

- AFDD installation
- Larger circuit capacity Installations
- Compliance to the wiring regulations BS 7671 -18th Edition wiring regulations.

Terminal Block
For distribution of phase and neutral



Busbar
For AFDD installation



Cable kit Multirow
For multirow cable connection

Easy9 Plus Accessories

Reference	Description
EZ9EBP	Din rail mounted blank pole
EZ9ESP	Label pack
EZ916BKIT	Spare 16 way busbar
EZ9ECLMP	Incoming Cable clamp
EZ9LKCLIP	EZ9 Door lock clip
EZ9ELKBAR	EZ9 universal locking bar
EZ9EFLKIT12*	Semi-flush mount frame 12
EZ9EFLKIT16*	Semi-flush mount frame 16
EZ9EFLKIT20*	Semi-flush mount frame 20
SELA	MCB lock clip
SEDNBP3	Blank module 3pole
* Can only be used on 8way/12way/16way consumer unit.	

Easy9 Compact Accessories

Reference	Description
EZ9EBP	Din rail mounted blank pole
EZ9ESP	Label pack
EZ9TB1001	**Easy9** Terminal Block 100A
EZ9CCUCABLEKIT1	**Easy9** CCU Cable Kit 1 for 10Way & 12Way CU
EZ9CCUCABLEKITMR	Inter row Cable kit for Multirow
SEDNBP3	Blank plate module 3 pole
SEPNB112	AFDD Phase Neutral Comb busbar 12 Modules, 100A

Technical information

Wiring connections details

⚠⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Check that the busbar is fully located in MCB's and incomer.
- Tighten all connections to recommended torque settings

Failure to follow these instructions will result in death or serious injury.

						
Incoming Switch	20 mm	y 50 mm^2	y 35 mm^2	3.5 N.m	6.5 mm	PZ2
RCCB	16 mm	y 35 mm^2	y 25 mm^2	3.5 N.m		
MCB 3 - 25 A	16 mm	y 25 mm^2	y 16 mm^2	2.0 N.m		
MCB 32 - 50 A	16 mm	y 35 mm^2	y 25 mm^2	3.5 N.m		
RCBO	Lin y 14 mm / L&Nout y 16 mm	Lin y 25 mm^2/ L&Nout y 16 mm^2	Lin y 16 mm^2/ L&Nout y 10 mm^2	2.0 N.m	5.5 mm	PZ2
Earth and Neutral bars	10 mm	y 25 mm^2	y 16 mm^2	2.5 N.m	6.5 mm	PZ2
SPD	16 mm	y 35 mm^2	y 25 mm^2	2.5 N.m	6.5 mm	PZ2
AFDD	14 mm	y 16 mm^2	y 10 mm^2	2.0 N.m	5.5 mm	PZ2
Terminal Block	20 mm	y 35 mm^2	y 25 mm^2	3.5 N.m	6.5 mm	PZ2

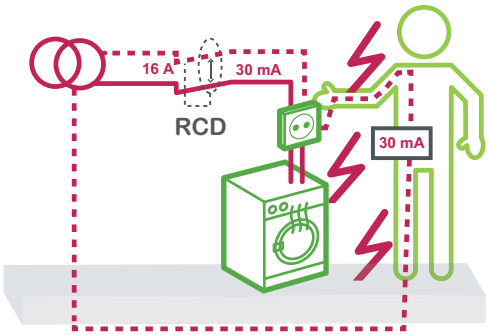
Annex 2

Residual current devices

Function

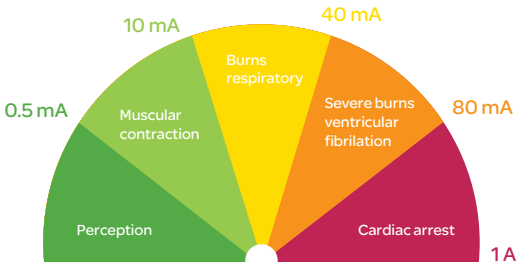
- Protection of persons against electric shock by direct contact (30 mA).
- Protection of installations against the risk of fire (300 mA).
- Protection of persons against electric shock by indirect contact
- (100 mA to 300 mA)

Operating principle



Protection from electric shocks by direct contact:

- Protection of persons against electric shock by direct contact (30 mA).
- Protection of installations against the risk of fire (300 mA).
- Protection of persons against electric shock by indirect contact (100 mA to 300 mA).



Research worldwide shows that the intensity of current flowing through the body determines the extent and severity of an electric shock.

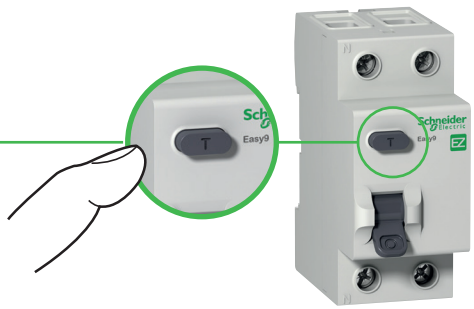
By measuring the intensity difference between live and neutral conductors, RCDs actually detect the current flowing through the human body. If this current reaches the 30 mA limit, the RCD trips within a few milliseconds, so preventing injury or worse.

- Injuries become serious when currents exceed 40 to 50 mA during one second.
- Theoretically, a 150 mA current flows through the body when a person touches a 230 V energised conductor under dry conditions.

Check RCDs regularly

Test

Testing the RCD every 6 months enables detection of any event that may have impaired its operation



Annex 2

Residual current devices

Selection

Residual current sensitivity

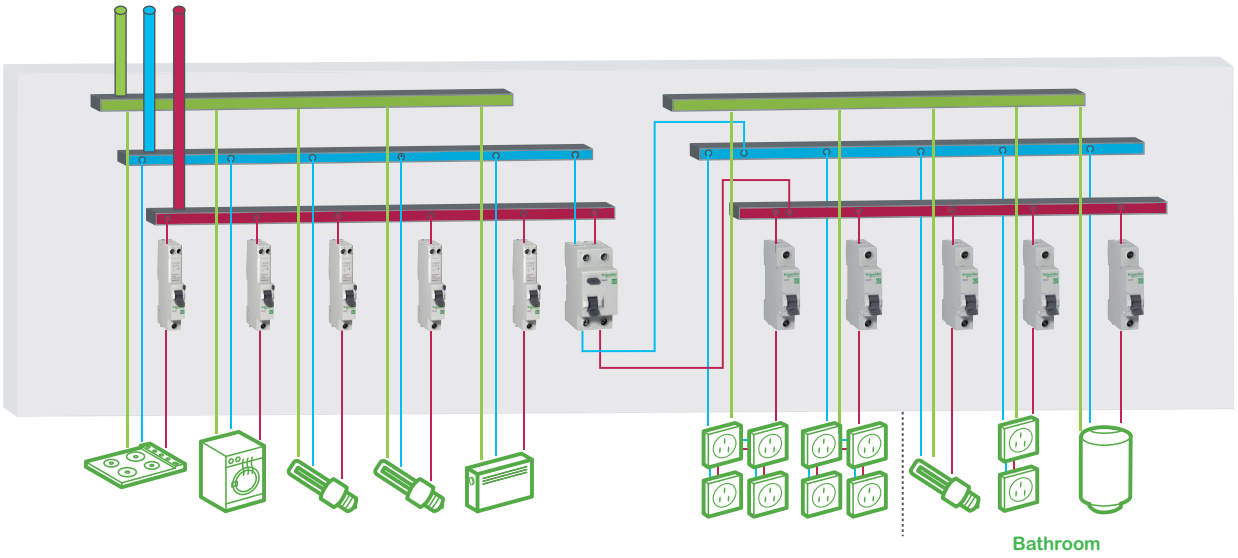
Protection from	Residential	Non-residential	Sensitivity
Electric shocks by direct contact			
	Mandatory protection for all socket outlets Mandatory protection for all electrical equipment in bathroom Recommended for lighting circuits	Mandatory protection for all socket outlets Mandatory protection for all equipement located Close to water points	30 mA 10 mA for all applications where required by the standard (e.g.: jacuzzi, swimming pools, etc.)
Fire ignited by leakage current			
	Recommended in old buildings (presence of dust or moisture)	Mandatory in all locations under risk of fire or explosion Recommended in all premises under presence of dust, moisture, chemical agents.	300 mA
Electric shock by indirect contact			
	All circuits in case of "TT" earthing system	All circuits in case of "TT" earthing system	100 mA or 300 mA

Requirements from wiring regulation (411.3.3)

Protection by means of a residual current protective device (RCD), shall be provided for:

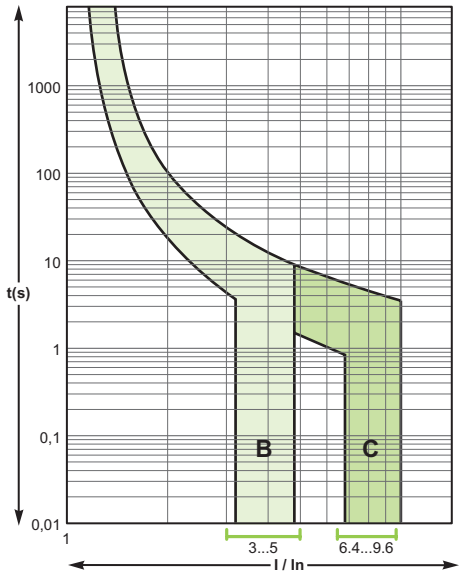
- Sockets outlets with a rated current not exceeding 20 A, mobile equipment with a current rating not exceeding 32 A for use outdoors.
- In rooms containing a bath or a shower.
- Cables in walls/ partitions
- EV charging circuits
- Swimming pools

Current rating:
Shall not be in excess of upstream MCB current rating



Annex 3

Time current tripping curves



Miniature circuit breakers

MCB selection chart for household appliances

Appliance		Capacity	MCB rating (A)	Tripping curves
Air conditioner		1 ton	16	"C"
		1.5 ton	20	
		2 ton	20	
		3 ton	25	
Refrigerator		165 litres	2	
		285 litres	2	
Water heater		1 kW	6	"B"
		3 kW	16	
Electric kettle		1.5 kW	10	
Food processor (50 % load)		200 W	1	"C"
Vacuum cleaner		50 W	0.5	
Toaster		1.2 kW	6	"B"
Cooking range		750 W	4	
		2 kW	10	
		4.5 kW	25	
Room heater		1 kW	6	
		2 kW	10	
Washing machine		300 W	2	"C"
		1.3 kW	10	
Electric iron		750 W	6	"B"
		1.25 kW	6	

Annex 3

Miniature circuit breakers

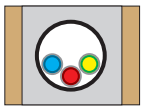
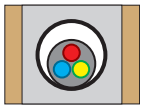
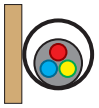
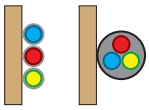
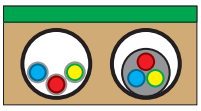
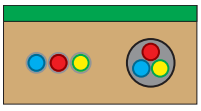
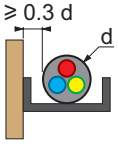
Selection of circuit breakers according to the cables to be protected (BS 7671)

- PVC-insulated, copper, flexible or rigid cable.
- Ambient temperature:
- 30°C in the open air (methods A, B, C, E)
- 20°C if buried (method D),
- For other situations, refer to BS 7671 standard (or UK wiring regulations).

Function

- Protection from short-circuits.
- Protection of cable from overload.

MCB current rating — Single-phase circuit

Cable cross section (in mm^2)		1.5	2.5	4	6	10	16	25	35
Type of installation		Maximum rating of the circuit breaker used there (in Ampere)							
A: in conduit or directly in thermally insulated wall, moulding, architrave, window frame									
Single core		10	16	25	32	40	50	80	80
Multicore		10	16	25	32	40	50	70	80
B: in conduit in a wall, in conduit trunking or cable duct on a wall, in building cavity									
Single core		16	20	32	40	50	70	100	125
Multicore		16	20	25	32	50	50	80	80
C: direct on a wall, suspended from ceilings, on unperforated cable tray, in masonry wall									
Single core or multicore		16	25	32	40	63	80	100	125
D: in conduit in the ground									
Multicore or single core		20	25	32	40	50	70	80	80
D: directly in the ground									
Multicore or single core		20	25	32	40	63	80	100	125
E: in free-air, on cable ladder, on perforated cable tray									
Multicore		20	25	40	40	70	80	100	125


Life Is On

Notes

Notes

Notes

Life Is On | Schneider Electric

Schneider Electric

Schneider Electric UK
Stafford Park 5
Telford, Shropshire,
TF3 3BL

www.se.com/uk

SE12274

This document has been
printed on recycled paper