Ready to install

Distribution and protection products

Schneider Electric™

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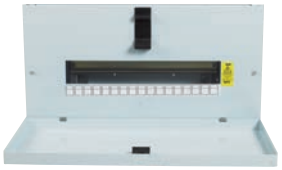
LoadCentre KQ
Distribution boards

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

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)

Reference number	Number of SP ways	Dimensions (mm) Height	Width	Depth
SE125A6	6	270	266	127
SE125A8	8	270	321	127
SE125A12	12	270	376	127
SE125A16	16	270	456	127
SE125A24	24	500	376	127

Split load type* (excluding incomers)

Reference number	Number of ways Unprotected SP	Protected RCD	Dimensions (mm) Height	Width	Depth
SE125A4SL6	4	6	270	376	127
SE125A5SL5	5	5	270	376	127
SE125A4SL8	4	8	270	456	127
SE125A6SL6	6	6	270	456	127

Split load boards are designed for use with earth protection devices (RCD's) on the secondary side and provide the user with additional protection for selected units.

Notes * 2 incoming devices required for split load units. e.g. Switch and RCCB's.
Secondary incomer is a plug on device - see page 20.
All devices are supplied separately.

Split meter board (including incomers)

Reference number	Number of ways Lighting	Power	Dimensions (mm) Height	Width	Depth
SEA10S10	10	10	484	470	139
SEA14S14	14	14	530	417	139

The split metering board is supplied with 2 meters, an overall switch disconnector and individual switch disconnectors for lighting and power. Meters are direct connected with pulse output.

50A per row

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

Type A LoadCentre KQ+ DIN incoming devices

Reference number	Device type	Current rating	Number of poles	Standard approval	Cable capacity mm²
SE125L2	Terminal block	125A	2	–	50
SE125SW2	Switch disconnector	125A	2	BS EN 60947-3	50
SED63032	RCCB	63A, 30mA	2	BS EN 61008	35
SED63102	RCCB	63A, 100mA	2	BS EN 61008	35
SED63302	RCCB	63A, 300mA	2	BS EN 61008	35
SED100032	RCCB	100A, 30mA	2	BS EN 61008	50
SED100102	RCCB	100A, 100mA	2	BS EN 61008	50

Plug on RCCB secondary incomers for split load A boards

Reference number	Device type	Current rating	Number of poles	Standard approval	Cable capacity mm²
SQOE063030	RCCB	63A, 30mA	2	BS EN 61008	35
SQOE063100	RCCB	63A, 100mA	2	BS EN 61008	35
SQOE100030	RCCB	100A, 30mA	2	BS EN 61008	50
SQOE100100S	RCCB	100A, 100mA TD	2	BS EN 61008	50
SQOE100100	RCCB	100A, 100mA	2	BS EN 61008	50
SQOE100300	RCCB	100A, 300mA	2	BS EN 61008	50

125A A board accessories

Reference number	Device type
SEK	Barrel lock and 2 keys new square door catch
SEDNBP	Blanking plate (5 poles)
SEPLMCB	MCB padlock attachment (pk 3)
SEPLRCBO	RCBO padlock attachment (pk 10)
SEPL	Padlock
SEAE16	A type DIN rail extension enclosure (16 SP ways available)
SE1100L	100A lug unit single pole
SESDC	Replacement door catch
SEBP25	Blank plate 25 x 5

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

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
- All incoming connections are the same length i.e. 4 pole configuration
- Range of integral incomers for all applications including lugs, switches, RCCB's and MCCB's
- Outgoing MCB's available up to 63A B, C or D curves
- 18mm wide RCBO available, minimising use of outgoing ways
- Plug-On outgoers for speed of installation and guaranteed connection
- 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)

Reference number	Number of TP ways	Dimensions (mm) Height	Width	Depth
SE12B250	4	484	470	139
SE18B250	6	484	470	139
SE24B250	8	538	470	139
SE36B250	12	700	470	139
SE48B250	16	808	470	139
SE54B250	18	862	470	139
SE72B250	24	1024	470	139

Split load (excluding incomers)

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

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

Split load joining kit for mechanical connection **SEJK**.
63A tapoff to feed protected board (including joining kit) **SE63SLK**.

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

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

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Reference number	Number of rows	Number of modules	Dimensions (mm) Height	Width	Depth
SE17BES	1	17	270	470	139
SE12B2D	2	34	484	470	139
SE18B2D	2	34	538	470	139
SE36B3D	3	51	700	470	139
SE54B4D	4	68	808	470	139

Extra service units are designed for application using numerous control products and RCCB's. These units provide a professional finish while economising on ease and speed of installation.

LoadCentre KQ - three phase B type distribution boards

Split metering board 125A

Reference number	Number of TP ways Section 1	Section 2	Rating A	Dimensions (mm) Height	Width	Depth
SEB36S24125	12	8	125	1290	470	139
SEB42S18125	14	6	125	1290	470	139
SEB48S12125	16	4	125	1290	470	139

125A boards are supplied with a switch disconnector
2 x PM750 meters included (pulsed and ModBus output)

Split metering board 250A

Reference number	Number of TP ways Section 1	Section 2	Rating A	Dimensions (mm) Height	Width	Depth
SEB36S24250	12	8	250	1290	470	139
SEB42S18250	14	6	250	1290	470	139
SEB48S12250	16	4	250	1290	470	139

250A boards require a switch disconnector to be added
2 x multi function meter included (pulsed and ModBus output)

125A type B LoadCentre KQ incoming devices

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	3+N lug	BS EN 60947-3	50
SED80034	RCCB	80A, 30mA	4	BS EN 61008	35
SED100304	RCCB	100A, 300mA	4	BS EN 61008	50
SED100304S	RCCB	100A, 300mA TD	4	BS EN 61008	50
SECSW100	Contactor + switch	100A	4	BS EN 60439	50

Note For a wider range of RCCB incomers see the RSD offer on page 25

250A type B LoadCentre KQ incoming devices

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
SE100MCCB3L	MCCB	100A	3+N	BS EN 60947-2	95
SE160MCCB3L	MCCB	160A	3+N	BS EN 60947-2	95
SE200MCCB3L	MCCB	200A	3+N	BS EN 60947-2	185
SE250MCCB3L	MCCB	250A	3+N	BS EN 60947-2	185
SE160RCD	RCCB 160A	Adjustable 30mA - 10A	4	BS EN 61008	95

Note Supplied with 400mm extension box

Metering kit

Reference number	Description
SE250MET	Multi function metering kit for LoadCentre KQ 3 phase B type distribution boards **Components:** Multi function meter provides V, A, Power factor kW/h, kVA/h. Three current transformers. Three single pole MCB's **Voltage rating:** 415V nominal, 455V maximum. 3 phase 4 wire 50-60 Hz **Output:** Pulse output contact is standard + ModBus MID approved

LoadCentre KQ - three phase B type distribution boards

Incomers for 250A split metered boards

Reference number	Device type	Current rating	Number of poles	Standard approval	Cable capacity mm²
SE160SW4SM	Switch disconnector	160A	4	BS EN 60947-3	95
SE200SW4SM	Switch disconnector	200A	4	BS EN 60947-3	185
SE250SW4SM	Switch disconnector	250A	4	BS EN 60947-3	185
SE160MCCB3LSM	MCCB	160A	4	BS EN 60947-2	95
SE200MCCB3LSM	MCCB	200A	4	BS EN 60947-2	185
SE250MCCB3LSM	MCCB	250A	4	BS EN 60947-2	185

B board accessories

Reference number	Device type
SESJK	Side joining kit
SEJK	Top/bottom joining kit
SE63SLK	63A Top off or split load
SEK	Barrel lock and 2 keys for catch
SEK33	Spare keys for above
W29370	MCCB locking attachment
SE125SPP	125A single phasing kit for use with RCD and switch incomers
SEDNBP	250A single phasing kit
SQODNBP	Blanking plate (5 poles)
SEPLMCB	MCB padlock attachment (pk 3)
SEPLRCBO	RCBO padlock attachment (pk 10)
SEPL	Padlock
WALLET	Circuit directory and wallet (pack of 10)
SEPD	Padlocking door kit
SEBES	Plain extension box
SE1100L	100A lug unit single pole
SEGPKO	Spare gland plate with knockouts
SEGP	Spare gland plate
SECE12T	Clean earth 12 terminals
SECE24T	Clean earth 24 terminals
SE72BL	Spare way label 72 ways
SEEXGP	Spare gland plate for extension box
SESDC	Spare door catch
SEBNC	Neutral terminal cover
SEBFCF	Spare cover fixing (24)
SEBEK1	Extra earth bar 14 hole
SEBEK2	Extra earth bar 20 hole
SEBEK3	Extra earth bar 26 hole

LoadCentre KQ - KQ miniature circuit breakers (MCB's)

KQ 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 (guaranteed 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 - guaranteed connection Plug-On devices
- For use in LoadCentre KQ A and B boards

Type B (magnetic setting 3-5 in)

For resistive and light reactive loads, e.g. heating, incandescent lighting etc

Reference numbers			Current rating (Icn*)	Cable capacity mm²
1 pole	2 pole	3 pole		
SE10B103	–	–	3A	25
SE10B106	–	–	6A	25
SE10B110	–	–	10A	25
SE10B116	–	–	16A	25
SE10B120	–	–	20A	25
SE10B125	–	–	25A	25
SE10B132	–	–	32A	35
SE10B140	–	–	40A	35
SE10B150	–	–	50A	35
SE10B163	–	–	63A	35

Type C (magnetic setting 5-10 in)

For moderately light reactive loads, e.g. fluorescent lighting

Reference numbers			Current rating (Icn*)	Cable capacity mm²
1 pole	2 pole	3 pole		
SE10C106	**SE10C206**	**SE10C306**	6A	25
SE10C110	**SE10C210**	**SE10C310**	10A	25
SE10C116	**SE10C216**	**SE10C316**	16A	25
SE10C120	**SE10C220**	**SE10C320**	20A	25
SE10C125	**SE10C225**	**SE10C325**	25A	25
SE10C132	**SE10C232**	**SE10C332**	32A	35
SE10C140	**SE10C240**	**SE10C340**	40A	35
SE10C150	**SE10C250**	**SE10C350**	50A	35
SE10C163	**SE10C263**	**SE10C363**	63A	35

Type D (magnetic setting 10-14 in)

For highly reactive loads, e.g. motors, pumps and transformers

Reference numbers			Current rating (Icn*)	Cable capacity mm²
1 pole	2 pole	3 pole		
SE10D106	**SE10D206**	**SE10D306**	6A	25
SE10D110	**SE10D210**	**SE10D310**	10A	25
SE10D116	**SE10D216**	**SE10D316**	16A	25
SE10D120	**SE10D220**	**SE10D320**	20A	25
SE10D125	**SE10D225**	**SE10D325**	25A	25
SE10D132	**SE10D232**	**SE10D332**	32A	35
SE10D140	**SE10D240**	**SE10D340**	40A	35
SE10D150	**SE10D250**	**SE10D350**	50A	35
SE10D163	**SE10D263**	**SE10D363**	63A	35

DIN rail mounted 80/100A MCB

Suitable for use in extension enclosures or extra service units

Reference number	Description	Terminal capacity	Modular size
KQ10C3100	MCB 3P 100A Type C	50	4.5
KQ10C380	MCB 3P 80A Type C	50	4.5

Must be used with **SE17BES** enclosure and 3 x **SE1100L**.

LoadCentre KQ - residual current circuit breakers (RCBO's)

Residual current circuit breakers (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 (guaranteed 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; 10, 30 and 100mA sensitivities
- AC 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

Aplications

RCBO's are available with various earth leakage sensitivities to suit numerous applications including 10mA devices for protection of sensitive machine/equipment, 30mA devices which are generally used for personnel protection and 100mA for meeting high earth loop impedance levels.

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

Residual current circuit breakers

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
SEE106C01	6A	C	10mA	16
SEE110C01	10A	C	10mA	16
SEE116C01	16A	C	10mA	16
SEE120C01	20A	C	10mA	16
SEE125C01	25A	C	10mA	16
SEE132C01	32A	C	10mA	16
SEE140C01	40A	C	10mA	16
SEE145C01	45A	C	10mA	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
SEE106C10	6A	C	100mA	16
SEE110C10	10A	C	100mA	16
SEE116C10	16A	C	100mA	16
SEE120C10	20A	C	100mA	16
SEE125C10	25A	C	100mA	16
SEE132C10	32A	C	100mA	16
SEE140C10	40A	C	100mA	16
SEE145C10	45A	C	100mA	16

LoadCentre KQ - residual current circuit breakers (RCCB's)

Residual current circuit breakers (RCCB's)

All residual current circuit breakers are suitable for use as main incomers in LoadCentre KQ 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

e.g. equipment outside equipotential zone or items requiring 2/4 pole protection
i.e. switched neutral applications

Residual current circuit breakers

Reference number	Description	Cable capacity mm²	Dimensions (mm)			Weight (Kg)
			Height	Width	Depth	
SED25032	25A RCCB 30mA trip 2 pole	35	81	36	75	0.227
SED25302	25A RCCB 300mA trip 2 pole	35	81	36	75	0.227
SED40032	40A RCCB 30mA trip 2 pole 3	35	81	36	75	0.227
SED40102	40A RCCB 100mA trip 2 pole	35	81	36	75	0.227
SED40302	40A RCCB 300mA trip 2 pole	35	81	36	75	0.227
SED63032	63A RCCB 30mA trip 2 pole 3	35	81	36	75	0.227
SED63102	63A RCCB 100mA trip 2 pole	35	81	36	75	0.227
SED63302	63A RCCB 300mA trip 2 pole	35	81	36	75	0.227
SED80032	80A RCCB 30mA trip 2 pole	50	81	36	75	0.227
SED100032	100A RCCB 30mA trip 2 pole	50	81	36	75	0.227
SED100102	100A RCCB 100mA trip 2 pole	50	81	36	75	0.227
SED25034	25A RCCB 30mA trip 4 pole	35	81	72	75	0.428
SED25104	25A RCCB 100mA trip 4 pole	35	81	72	75	0.428
SED25304	25A RCCB 300mA trip 4 pole	35	81	72	75	0.428
SED40034	40A RCCB 30mA trip 4 pole	35	81	72	75	0.428
SED40104	40A RCCB 100mA trip 4 pole	35	81	72	75	0.428
SED40304	40A RCCB 300mA trip 4 pole	35	81	72	75	0.428
SED63034	63A RCCB 30mA trip 4 pole	35	81	72	75	0.428
SED63104	63A RCCB 100mA trip 4 pole	35	81	72	75	0.428
SED63304	63A RCCB 300mA trip 4 pole	35	81	72	75	0.428
SED80034	80A RCCB 30mA trip 4 pole	35	81	72	75	0.500
SED100304	100A RCCB 300mA trip 4 pole	50	81	72	75	0.500
SED100304S	100A RCCB 300mA trip 4 pole + TD	50	81	72	75	0.500

Individual RCCB insulated enclosure

Reference number	Description	Dimensions (mm)			Weight (Kg)
		Height	Width	Depth	
RSD4IP54	4 x 18mm module IP54 protection	200	110	112	0.35

RSD insulated enclosures are also suitable for any DIN rail mounted product including time clocks, timers, contactors, switches and relays.

LoadCentre KQ - extension enclosures

Extension enclosures

LoadCentre KQ 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 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	Number of rows	Total number of SP modules	Dimensions (mm) Height	Width	Depth
SE12B2D	2	34	484	470	139
SE18B2D	2	34	538	470	139
SE36B3D	3	51	700	470	139
SE54B4D	4	68	808	470	139

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

Reference number	Number of rows	Total number of SP modules	Dimensions (mm) Height	Width	Depth
SE17BES	1	17	270	470	139

Steel enclosure

Reference number	Number of rows	Total number of SP modules	Dimensions (mm) Height	Width	Depth
SEBES	–	–	270	470	124

Panelboards
I-Line MCCB

Panelboards - 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 top or bottom of the panelboard
- Ample cabling space
- L-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	**CNXAE34250**
250A 50kA triple pole MCCB	**CHXAE34250**
100A automatic switch disconnector (isolator)	**CNXAE34000S10**
160A automatic switch disconnector (isolator)	**CNAXE34000S15**
250A automatic switch disconnector (isolator)	**CNAXE34000S25**
225A plug on lug unit	**SL225**

Step 3 Select outgoing devices

Single and double pole MCCB's are phase dedicated.
To obtain correct reference add suffix as below example:
40A SP MCCB to fit L3 will be SFA1040C

MCCB

16-100A 25kA	Single Pole (1 Mod)				Double Pole (2 Mod)			
		L1	L2	L3		L1/L2	L2/L3	L1/L3
		Suffix				Suffix		
16A	**SFA1016**	A	B	C	**SFA2016**	AB	BC	AC
20A	**SFA1020**				**SFA2020**			
32A	**SFA1032**				**SFA2032**			
40A	**SFA1040**				**SFA2040**			
50A	**SFA1050**				**SFA2050**			
63A	**SFA1063**				**SFA2063**			
80A	**SFA1080**				**SFA2080**			
100A	**SFA1100**				**SFA2100**			

Panelboards - I-Line MCCB panelboards Size 1 250A

Step 3 Select outgoing devices cont.					
Triple pole (3 mods)				Additional tunnel terminals	Acceptable cable size
	25kA	36kA	50kA	Reference No.	
16A	CDXAE34016	CNXAE34016	CHXAE34016		
25A	CDXAE34025	CNXAE34025	CHXAE34025		
32A	CDXAE34032	CNXAE34032	CHXAE34032		
40A	CDXAE34040	CNXAE34040	CHXAE34040	LV42922	1.5-95mm
50A	CDXAE34050	CNXAE34050	CHXAE34050		
63A	CDXAE34063	CNXAE34063	CHXAE34063		
80A	CDXAE34080	CNXAE34080	CHXAE34080		
100A	CDXAE34100	CNXAE34100	CHXAE34100		
125A		CNXAE34125	CHXAE34125		
160A		CNXAE34160	CHXAE34160		
200A		CNXAE34200	CHXAE34200	LV429259	95-185mm
250A		CNXAE34250	CHXAE34250	LV429259	
160A electronic		CNXAE34160E20		LV429242	1.5-95mm
250A electronic		CNXAE34250E20		LV425252	95-185mm

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.

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 PM750 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
MPME2501	250A	top/bottom metering extension box

Panelboards - 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
Side extension box			
	508mm wide	EXMS20411	EXMS22051
Top / bottom extension box			
	226mm high	EXS91	EXS91
MCCB Incomer padlocking device			
	250A	29370	29370
Door lock		**QOKS1**	**QOKS1**
	2 Spare keys	KQK33	KQK33
Terminal shields x 2	See page 18		
Plug-on metering kit for incoming supply - occupies 4 modules			
	Analogue, voltmeter & ammeter	**MP250INS**	**MP250INS**
	* Digital, multi function meter	**MP250kW**	**MP250kW**
Weight in kg		46	76
Overall dimensions H x W x D		1041x508x184	1727x508x184
Fixing centres		800	1486

* See page 30 for outgoing metering

Panelboards - I-Line MCCB panelboards
Size 1 400A

Size 1 400A panelboards

- Single sided to give best possible space utilisation
- Incomers cabe mounted at 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

250A	**Reference number**
250A 36kA triple pole MCCB	**CNXAE34250**
250A 50kA triple pole MCCB	**CHAXE34250**
100A automatic switch disconnector (isolator)	**CNAXE34000S10**
160A automatic switch disconnector (isolator)	**CNAXE34000S15**
250A automatic switch disconnector (isolator)	**CNAXE34000S25**
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 and double pole MCCB's are phase dedicated.
To obtain correct reference add suffix as below example:
40A SP MCCB to fit L3 will be SFA1040C

MCCB

16-100A 25kA	**Single Pole (1 Mod)**				**Double Pole (2 Mod)**			
		L1	**L2**	**L3**		**L1/L2**	**L2/L3**	**L1/L3**
		Suffix				**Suffix**		
16A	**SFA1016**	A	B	C	**SFA2016**	AB	BC	AC
20A	**SFA1020**				**SFA2020**			
32A	**SFA1032**				**SFA2032**			
40A	**SFA1040**				**SFA2040**			
50A	**SFA1050**				**SFA2050**			
63A	**SFA1063**				**SFA2063**			
80A	**SFA1080**				**SFA2080**			
100A	**SFA1100**				**SFA2100**			

Panelboards - I-Line MCCB panelboards
Size 1 400A

Step 3 Select outgoing devices cont.

Triple pole (3 mods)				Additional tunnel terminals	Acceptable cable size
	25kA	36kA	50kA	Reference No.	
16A	**CDXAE34016**	**CNXAE34016**	**CHXAE34016**		
25A	**CDXAE34025**	**CNXAE34025**	**CHXAE34025**		
32A	**CDXAE34032**	**CNXAE34032**	**CHXAE34032**		
40A	**CDXAE34040**	**CNXAE34040**	**CHXAE34040**	**LV429242**	1.5-95mm
50A	**CDXAE34050**	**CNXAE34050**	**CHXAE34050**		
63A	**CDXAE34063**	**CNXAE34063**	**CHXAE34063**		
80A	**CDXAE34080**	**CNXAE34080**	**CHXAE34080**		
100A	**CDXAE34100**	**CNXAE34100**	**CHXAE34100**		
125A		**CNXAE34125**	**CHXAE34125**		
160A		**CNXAE34160**	**CHXAE34160**		
200A		**CNXAE34200**	**CHXAE34200**	**LV429259**	95-185mm
250A		**CNXAE34250**	**CHXAE34250**	**LV429259**	
160A electronic		**CNXAE34160E20**		**LV429242**	1.5-95mm
250A electronic		**CNXAE34250E20**		**LV429259**	95-185mm

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:

A. Select metering kit

1 Metering kit. This contains a replacement wireway door with 96 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	
MPMK104	4 way I-Line metering kit
MPMK107	7 way I-Line metering kit
MPMK112	12 way I-Line metering kit

B. Select metering CT set for each outgoing MCCB to be monitored

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.

Reference number		CT ratio
MPCT125	C frame breaker	125/5
MPCT150	C frame breaker	150/5
MPCT250	C frame breaker	250/5

C. Select PowerLogic meters for each circuit to be measured

Reference number	
PM700	Multi function PowerMeter
PM700P	Multi function PowerMeter with pulse outputs
PM710	Multi function PowerMeter with Modbus RS485 output
PM750	Same functions as the PM710, plus two digital inputs, one digital output, alarms and signed power factor. The PM750 digital output can be simply configured as a kWh pulse output

Panelboards - 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**
Blanking plates for every MCCB way when one or more PF devices fitted				
	Single pole	**HNF1BL**	**HNF1BL**	**HNF1BL**
	Triple pole	**HNF4BL**	**HNF4BL**	**HNF4BL**
Trim, required when 250A incomer fitted		**TKA4**	**TKA7**	**TKA12**
Side extension box				
	508mm wide			
	550mm wide	**EXMS827**	**EXMS1170**	**EXMS1742**
Top / bottom extension box				
	226mm high			
	379mm high	**EXS151**	**EXS151**	**EXS151**
MCCB Incomer padlocking device				
	250A	**29370**	**29370**	**29370**
	400A	**HPALM**	**HPALM**	**HPALM**
Door lock		**QOKS1**	**QOKS1**	**QOKS1**
	2 Spare keys	**KQK33**	**KQK33**	**KQK33**
Terminal shields x 2 See page 42				
Plug-on metering kit for incoming supply - occupies 4 modules				
	Analogue, voltmeter & ammeter	**MP400INS**	**MP400INS**	**MP400INS**
	* 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

* See page 30 for outgoing metering

Panelboards - 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 and double pole MCCB 's are phase dedicated.
To obtain correct reference add suffix as below example:
40A SP MCCB to fit L3 will be SFA1040CC

MCCB

16-100A 25kA	Single Pole (1 Mod)				Double Pole (2 Mod)			
		L1	L2	L3		L1/L2	L2/L3	L1/L3
		Suffix				Suffix		
16A	**SFA1016**	A	B	C	**SFA2016**	AB	BC	AC
20A	**SFA1020**				**SFA2020**			
32A	**SFA1032**				**SFA2032**			
40A	**SFA1040**				**SFA2040**			
50A	**SFA1050**				**SFA2050**			
63A	**SFA1063**				**SFA2063**			
80A	**SFA1080**				**SFA2080**			
100A	**SFA1100**				**SFA2100**			

Panelboards - 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	50kA	Reference No.	
16A	**CDXAE34016**	**CNXAE34016**	**CHXAE34016**		
25A	**CDXAE34025**	**CNXAE34025**	**CHXAE34025**		
32A	**CDXAE34032**	**CNXAE34032**	**CHXAE34032**		
40A	**CDXAE34040**	**CNXAE34040**	**CHXAE34040**	**LV42922**	1.5-95mm
50A	**CDXAE34050**	**CNXAE34050**	**CHXAE34050**		
63A	**CDXAE34063**	**CNXAE34063**	**CHXAE34063**		
80A	**CDXAE34080**	**CNXAE34080**	**CHXAE34080**		
100A	**CDXAE34100**	**CNXAE34100**	**CHXAE34100**		
125A		**CNXAE34125**	**CHXAE34125**		
160A		**CNXAE34160**	**CHXAE34160**		
200A		**CNXAE34200**	**CHXAE34200**	**LV429259**	95-185mm
250A		**CNXAE34250**	**CHXAE34250**	**LV429259**	
160A electronic		**CNXAE34160E20**		**LV429242**	1.5-95mm
250A electronic		**CNXAE34250E20**		**LV425252**	95-185mm

Panelboards - I-Line MCCB panelboards Size 2 630A

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.

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:

A. Select metering kit

1 Metering kit. This contains a replacement wireway door with 96 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	
MPMK206	6 way I-Line metering kit
MPMK210	10 way I-Line metering kit
MPMK214	14 way I-Line metering kit
MPMK218	18 way I-Line metering kit

B. Select metering CT set for each outgoing MCCB to be monitored

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.

Reference number		CT ratio
MPCT125	C frame breaker	125/5
MPCT150	C frame breaker	150/5
MPCT250	C frame breaker	250/5
MPCT400	L frame breaker	400/5
MPCT600	M & P frame breakers	600/5

C. Select PowerLogic meters for each circuit to be measured

Reference number	
PM700	Multi function PowerMeter
PM700P	Multi function PowerMeter with pulse outputs
PM710	Multi function PowerMeter with Modbus RS485 output
PM750	Same functions as the PM710, plus two digital inputs, one digital output, alarms and signed power factor. The PM750 digital output can be simply configured as a kWh pulse output

Panelboards - 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**
Door lock					
	2 Spare keys	**KQK33**	**KQK33**	**KQK33**	**KQK33**
Terminal shields x 2 See page 42					
Integral metering kit for incoming supply					
	Analogue, voltmeter & ammeter				
	400A	**400INSKN**	**400INSKN**	**400INSKN**	**400INSKN**
	630A	**600INSKN**	**600INSKN**	**600INSKN**	**600INSKN**
	* 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

* See page 30 for outgoing metering

Panelboards 800A to 1600A
Please consult us
Tel 0870 608 8 608

Panelboards - 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.

Panelboards are supplied without blanking plates.

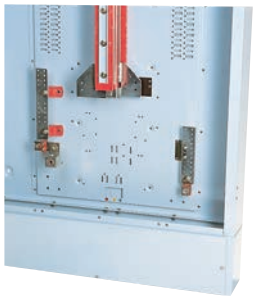
	Reference number
1 module way:	**HNM1BL** pack quantity 1
3 module way:	**HNM4BL** pack quantity 1

Side extension boxes

Supplied with hinged door, side extension boxes may be used to provide additional wiring space or fitting of control equipment or Qwikline II MCB distribution boards.

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

Box width
250A boards: 508mm.
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.

Door lock

All keys are identical.
For size 1 panelboard, field installable.

	Reference number
Door lock	**QOKS1** supplied with 2 keys.

Panelboard size 2 is supplied with a door lock as standard.
If replacement locks are required, order reference QOKSB. Set of 2 spare keys
KQK 33

Panelboards - 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
NE1816	18	25
NE950	9	50
NE7150	7	150
NE13150	13	150

MCCB locking devices

Provide facilities for padlocking MCCB's.

Frame	Reference number	Facility	Padlocks
SFA	**HPAFK**	On/Off	1
C 3 pole	**W29370**	Off	3
SLA	**HPALM**	Off	1
SLA	**HPAXLM***	Off	1
PJA	**44936**	Off	1

* Use with handle extension

Panelboards - I-Line MCCB panelboards
MCCB accessories

Cable clamp terminals

Triple pole CDX, CNX and CHX MCCB's are supplied with bolt connections. Field fitted terminals.

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

Crimp cable lugs

Special lugs for fitting oversize cables to CD, CN and CH 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
CDX, CNX and CHX short (15mm)	**LV429515**	1
CDX, CNX and CHX long (80mm)	**LV429517X**	1
SLA	**LCA1**	2
SMA	**MCA1**	2
SFA single pole	**FTS**	1

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

Handle extension

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

	Reference number
SLA frame	**AHEXLI**
SM	**MAHEX**
PJA frame	**46996**

Terminal extension pads

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

	Reference number
C frame	**LV431563**
SLA frame	**LATK3**
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.

Panelboards - I-Line MCCB panelboards
MCCB accessories

Shunt trip (ST)

Energisation of shunt trip coil will initiate MCCB tripping.

CDX, CNX and CHX	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.

CDX, CNX and CHX	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 CDX, CNX and CHX may be used as an alarm switch.

CDX, CNX and CHX	Connection terminals accept wires up to 1.5mm^2
SL,	Supplied with 1mm^2 flying leads

Field installable.

Order references

Description	CDX-CNX-CHX	SLA
Shunt trip 110/130V 50Hz	**LV429386**	**–**
Shunt trip 200/240V 50Hz	**LV429387**	**–**
Shunt trip 120/240V 50Hz	**–**	**LA11021**
Shunt trip 277/480V 50Hz	**–**	**LA11037**
Shunt trip 24V dc	**LV429390**	**LA11027**
Under voltage release 110/130V 50Hz	**LV429406**	**LA11121**
Under voltage release 200/240V 50Hz	**LV429407**	**LA11124**
Under voltage release 24V dc	**LV429410**	**LA11127**
Auxiliary switch 1 change over contact	**LV429450**	**LA11212**
Auxiliary switch 2 change over contact	**LV429450 x 2**	**LA11352**

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
SL100	100A	3	50
SL225	225A	3	185
SL400	400A	4	300
SL800	800A	6	3 x 240

Panelboards - I-Line MCCB panelboards
Metering facilities

Metering facilities

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. 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, Size 2 and Size 3 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 PM700P 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 96 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.

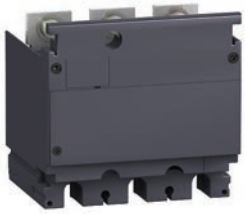
Size 1 400A

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

Panelboards - I-Line MCCB panelboards
Metering facilities



Outgoing Metering CT set for each MCCB to be monitored

Reference number		CT ratio
MPCT125	C frame breaker	125/5
MPCT150	C frame breaker	150/5
MPCT250	C frame breaker	250/5
MPCT400	L frame breaker	400/5
MPCT600	M & P frame breakers	600/5

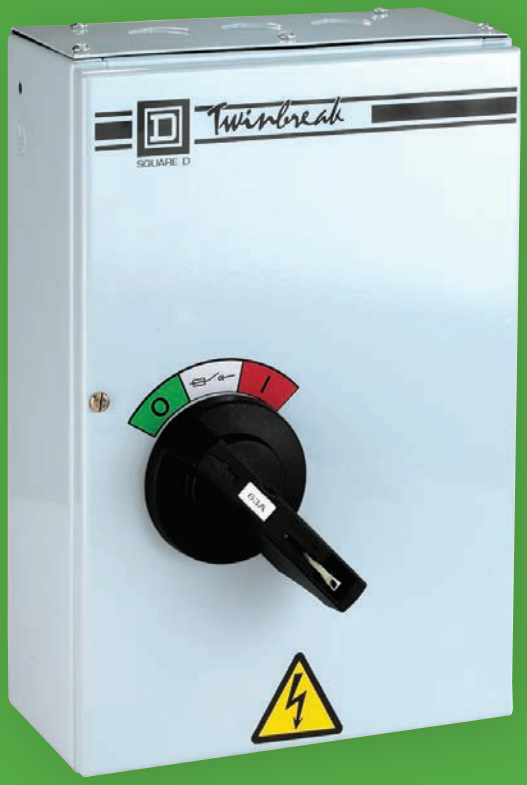
Blank metering plates

Reference number	
3908	Cream 96sq blanking plate
SDBL96	Black/Grey 96mm^2

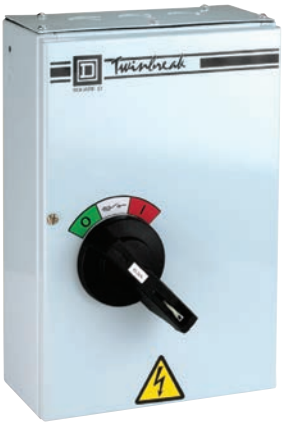
PowerLogic meters

Reference number	
PM700	Multi function PowerMeter
PM700P	Multi function PowerMeter with pulse outputs
PM710	Multi function PowerMeter with Modbus RS485 output
PM750	Multi function PowerMeter with Modbus RS485 and pulse outputs

Switch and fusegear
Twinbreak & Quadbreak



Switch and fusegear - Twinbreak



Switch disconnector fuse

Application
Heavy duty fuse products for use in commercial and industrial environments, providing isolation and traditional fuse protection for electrical loads.

Features
- Rated for 240/415V 50/60Hz
- Ratings 20A, 32A, 63A, 100A, SP&SwN, TP&N
- Utilisation category AC20A, AC21A, AC22A, AC23B at rated current
- Degree of protection IP41
- Handle position provides positive contact indication
- Door handle prevents door being opened when switch is ON or padlocked
- Handle padlockable in ON and OFF positions
- Fuse links supplied as standard

Construction
- Live terminals fully shrouded
- Door interlock has integral defeat mechanism allowing door to be opened without switching OFF. This feature is not operable when the handle is padlocked
- Removable gland plates with cable knockouts
- Lift off door provides greater access for installation and cabling
- Door opens within the width of the unit allowing units to be mounted adjacent
- Neutral has disconnectable link and capacity for 3 outgoing cables
- Keyhole slots in the enclosure base allow easy installation
- Earthing kit provided as standard
- Easy access to fuse links
- Steelwork finished in polyester epoxy powder

Technical data

Standard	BS EN 60947-3			
Rated operational voltage	415V 50/60Hz			
Rating	20A	32A	63A	100A
Rated current at 400C, A	20	32	63	100
Rated impulse voltage	6kV	6kV	6kV	6kV
Rated short time withstand Icw, A	416	416	756	1300
Rated short circuit making capacity Icm	1.35kA	1.35kA	1.35kA	3.5kA
Rated short circuit breaking capacity Icn	50kA	50kA	50kA	50kA
Utilisation category at rated current	AC-20A/ 21A/ 22A/ 23B			
Kilowatt rating	11kW	15kW	30kW	55kW
Cable size, maximum mm²	10mm²	10mm²	25mm²	50mm²

Reference numbers

Rating AC21/22/23	Single pole & switched neutral		Three pole with neutral link	
	Switch disconnector fuse	Switch disconnector	Switch disconnector fuse	Switch disconnector
20A	**SD202SFK**	**SD202SW**	**SD203SFK**	**SD203SW**
32A	**SD322SFK**	**SD322SW**	**SD323SFK**	**SD323SW**
63A	**SD632SFK**	**SD632SW**	**SD633SFK**	**SD633SW**
100A	**SD1002SFK**	**SD1002SW**	**SD1003SFK**	**SD1003SW**
125A	–	–	–	**SD1253SW**
160A	–	–	–	**SD1603SW**

Busbar chambers

Step 1
Select Twinbreak units required. If a 125 or 160A unit is fitted the rating of the adjacent units cannot exceed 63A.

Step 2
Select appropriate busbar chamber.

Current rating	Number of units	Number of units
Amps	**4**	**6**
160	**SBC106**	**SBC109**

SBC106 is supplied complete with 4 x TBCKIT.
SBC109 is supplied complete with 6 x TBCKIT.

Switch and fusegear - Quadbreak

Fuse switch disconnector

Application

Heavy duty fuse products for use in commercial and industrial environments, providing isolation and traditional fuse protection for electrical loads.

Features

- Rated for 240/415V 50/60Hz
- Ratings 100A, 160A, 200A, 250A, 315A, 400A, 500A, 630A TP&N
- Utilisation category AC20A, AC21A, AC22A, AC23B at rated current, AC23A for ratings up to 160A
- Handle position provides positive contact indication
- Door handle prevents door being opened when switch is ON or padlocked
- Handle padlockable in ON and OFF positions
- Device may be fed to either top or bottom terminals
- Fuse links or copper links supplied as standard

Construction

- All terminals are fully shrouded
- Quick make and break silver plated contacts
- Door interlock has defeat mechanism allowing switch to be closed with door open
- Removable plain gland plates are fitted at top and bottom
- Cabling space may be increased by the addition of the cable boxes
- Lift off door provides greater access for installation and cabling
- Door opens within the width of the unit allowing units to be mounted adjacent
- Neutral is fitted with disconnectable links
- Earthing kit provided as standard
- Easy access to fuse links
- Removable cross rails allow cables to be laid in easily
- Direct front access to terminals without dismantling the mechanism
- Clear shrouds allow easy access for inspection and visual indication of contact position
- Steelwork finished in polyester epoxy powder

Reference numbers

Rating AC21/22/23	Single pole & switched neutral		Three pole with neutral link		Recommended cable box	Spare links
	Switch disconnector fuse	Switch disconnector	Switch disconnector fuse	Switch disconnector		
63A	**SQB0632K**	**SQB0632L**	**SQB0633K**	**SQB0633L**	**SQBX100**	**XCL160**
100A	**SQB1002K**	**SQB1002L**	**SQB1003K**	**SQB1003L**		
160A	**SQB1602K**	**SQB1602L**	**SQB1603K**	**SQB1603L**	**SQBX160**	
200A	**SQB2002K**	**SQB2002L**	**SQB2003K**	–	**SQBX250**	–
250A	**SQB2502K**	**SQB2502L**	**SQB2503K**	**SQB2503L**		**XCL250**
315A	–	–	**SQB3153K**	–	**SQBX500**	–
400A	–	–	**SQB4003K**	**SQB4003L**		**XCL400**
500A	–	–	**SQB5003K**	**SQB5003L**		**XCL630**
630A	–	–	**SQB6303K**	**SQB6303L**	**SQBX630**	
800A	–	–	–	**SQB8003L**		**XCL800**

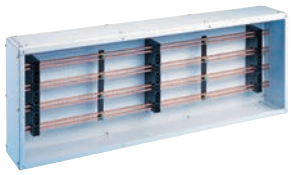
Castell figure locks

Quadbreak can be factory fitted with Castell interlock type FS for locking in off position.
To order:

1 Specify required unit e.g. SQB2503K
2 Add Castle figure lock order suffix EY
3 Add Castle key symbol e.g. A

Thus the order reference for a 250A switch disconnector fuse fitted with a Castell lock symbol A is SQB2503KEYA.

Switch and fusegear - Quadbreak busbar chambers



Busbar chambers

Primarily designed for Quadbreak switch disconnector (fuse) the Quadbreak busbar chamber can be used for the mounting of any equipment.

- Manufactured in accordance with BS EN 60439-1
- 200, 400, 630 and 800 rated copper busbars
- Available in 750, 1200 and 1800mm lengths
- Rigid construction
- Copper link kits available for direct connection of Quadbreak switch disconnector (fuse)
- Overall height and depth of units remains unchanged for the different current ratings

Height = 450mm
Depth = 215mm

Busbar chamber ratings

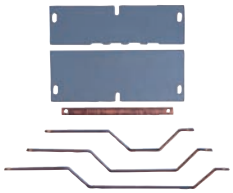
Rating (A)	Length 750mm Reference number	Length 1200mm Reference number	Length 1800mm Reference number
200	**SBC20007TN**	**SBC20012TN**	**SBC20018TN**
400	**SBC40007TN**	**SBC40012TN**	**SBC40018TN**
630	**SBC63007TN**	**SBC63012TN**	**SBC63018TN**
800	**SBC80007TN**	**SBC80012TN**	**SBC80018TN**

Busbar connection kits

Each kit comprises connections for three phases and neutral.

Rating (A)	Busbar interconnections to link busbar chambers* Reference number	Cable connections to connect to busbars** Reference number
200	**CEC200**	**FTC200**
400	**CEC400**	**FTC400**
600	**CEC630**	**FTC600**
800	**CEC800**	**FTC800**

* The busbar connection kits allow 2 or more busbar chambers to be electrically and mechanically joined together providing facilities for a greater number of outgoing circuits.
** The cable connection kits comprise 4 bolts, nuts and washers to connect a set of cables fitted with crimped lugs to the busbars.



Fuse switch connection kits

Each kit comprises connections for three phases and neutral.

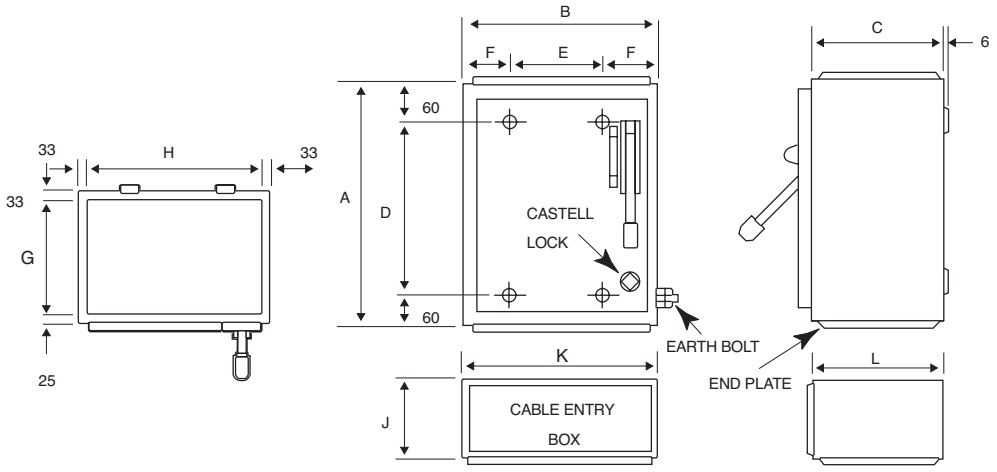
Rating (A)	Top mounted Reference number	Bottom mounted Reference number
63/160A	**QBL160TN**	**QBL160TN**
200/250A	**QBL250TN**	**QBL250TN**
315/630A	**QBL630TTN**	**QBL630BTN**
800A	**–**	**QBL800BTN**

Switch and fusegear - Quadbreak dimensions

Fuse switch disconnector

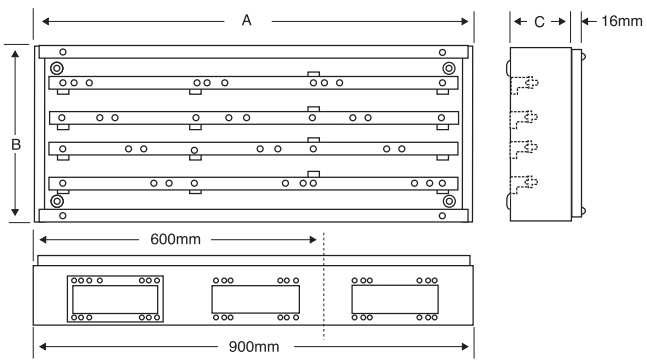
Current rating	Reference number	Switch enclosures (mm) A	B	C	D	E	F	G	H	Packed weight (kg)	Reference number	Cable entry box (mm) J	K	L
63A	**SQB0632K** **SQB0633K** **SQB0632L** **SQB0633L**	380	292	200	260	130	81	142	226	14.5	**SQBX100**	100	292	200
100A	**SQB1002K** **SQB1003K** **SQB1002L** **SQB1003L**	380	292	200	260	130	81	142	226	15.6	**SQBX100**	100	292	200
160A	**SQB1602K** **SQB1603K** **SQB1602L** **SQB1603L**	380	292	200	260	130	81	142	226	15.6	**SQBX160**	150	292	200
200A/ 250A	**SQB2003K** **SQB2502K** **SQB2503K** **SQB2502L** **SQB2503L**	380	340	200	260	180	81	142	274	19.5	**SQBX250**	180	340	200
315A/ 400A 500A	**SQB3153K** **SQB4003K** **SQB4003L** **SQB5003K** **SQB5003L**	455	489	270	335	289	100	212	423	36.2	**SQBX500**	300	489	270
630A 800A	**SQB6303K** **SQB6303L** **SQB8003L**	455	489	270	335	289	100	212	423	36.2	**SQBX630**	400	489	270

800A unit is provided with cable extension pads which are external to the above dimensions. Cable entry box SQBX630 must be used except where fitted to a Quadbreak busbar chamber.



Busbar chambers

Reference number	Dimensions (mm) A	B	C	Packed weight (kg)
SBC106	600	350	120	9.6
SBC109	900	350	120	14.25



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Working as one Schneider Electric makes it clearer that our ranges are highly compatible for integrated solutions.

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