

Residential circuit protection buyers guide







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Schneider Electric consumer units

Schneider Electric is a market leader in the design and manufacture of British Standard consumer units with the Domae and Qwikline II ranges.

To help compliance with the 17th Edition of the Wiring Regulations, Schneider Electric has expanded both the Domae and Qwikline II ranges to include new devices and consumer units. The consumer units are fully type tested to BS EN 61439-3.

Supported by a network of nation wide stockists, Schneider Electric is now able to provide two dramatically different styles of consumer units, Domae and Qwikline II. Suitable for installation in domestic dwellings, schools, colleges etc, both offers provide high levels of quality and installer flexibility.





17th Edition of the wiring regulations BS7671:2008

The 17th Edition of the Wiring Regulations came into effect on July 1 2008. There have been significant changes from the previous editions of the wiring regulations which meant that for many installations, the traditional configurations for consumer units have changed. The regulations require for most installations the increased use of RCDs. For residential installations the following changes in particular are required:-

Regulations

Regulation 522.6.101 & 522.6.102 – Cables concealed in walls or partitions

Regulation 522.6.101 Describes methods of protecting cables concealed in walls or partitions.

For practical purposes and for most residential installations Regulation 522.6.102 will be applied where circuits will be protected by means of a 30mA RCD.

Regulation 411.3.3 – Socket outlets

Regulation 411.3.3 Describes the need to protect socket outlets up to 20A for general use by ordinary persons e.g. home owners, and mobile equipment used outdoors up to 32A. There are exceptions, but in most cases this will mean such circuits must be protected by a 30mA RCD.

Regulation 314.1 – Division of circuits

Regulation 314.1 Describes the requirements to divide circuits in order to meet several needs. Point iv means that circuits should not all be protected by an individual RCD.

Section 701 – Locations containing a bath or shower

Under certain conditions 13A sockets can be installed in bathrooms, these must be protected by a 30mA RCD.

Options for compliance



Option 1

Incoming switch disconnecter and outgoing RCBO's

Option 1 is the safest option, providing each outgoing way with individual over current, and residual current protection.



Option 2

Split load consumer unit, using RCBO's

Option 2 shows how a split load consumer unit can be used. Safety circuits such as smoke alarms, and other circuits such as sockets can be individually protected by RCBOs.



Option 3

Incoming switch disconnecter with RCBO ways, plus two RCD protected busbars

Option 3 is a new configuration that allows safety circuits such as smoke alarms to be individually protected. In addition other circuits are protected by one of two RCCB's.



Option 4

Incoming switch disconnecter feeding two RCD protected busbars

Option 4 provides two busbars each fed by an RCCB.



Domae consumer units

The Domae range of consumer units offers the ultimate in terms of onsite flexibility at a very affordable price.

There are no bespoke split load consumer units, however any Domae enclosure can be taken and used with a single incomer or converted to a split load board with the minimum of effort.

A wide range of RCD protected and unprotected ways is possible and a standard board can be converted to a split load type at any time in the future. In terms of safety Domae offers a wide range of protective devices and installer safety is maximised via a busbar shield which, once fitted, can only be removed with the use of a tool.

Domae is now available with insulated or metal enclosures.





Domae consumer units

Features and benefits

> **Highly flexible**

Domae consumer units can be used with a single main incomer or used as a split load board

> **Configurable on site**

Choose the split of protected or unprotected RCD ways. Standard single incomer boards can be converted to split load at a later date

> **Ideal for rewire applications**

Right hand incomer for easier installation where existing incoming cables fall on the right

> **Controls flexibility**

Control devices can be easily installed within the same enclosure

> **Additional installer safety**

The busbar shield is firmly held in place when fitted and requires a tool to remove

> **Value for money**

Backed by the Schneider Electric brand you can be assured that Domae is a cost effective and quality solution

Domae - quick selector



Select consumer unit

Insulated units

Reference number	No. of ways
DOM2CU	2
DOM4CU	4
DOM6CU	6
DOM8CU	8
DOM12CU	12
DOM16CU	16
DOM20CU	20

Metal units

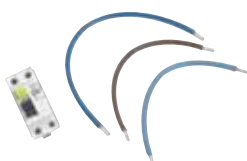
Reference number	No. of ways
DOM2MCU	2
DOM4MCU	4
DOM6MCU	6
DOM8MCU	8
DOM12MCU	12
DOM16MCU	16

Select incoming device

Main incoming devices



Reference number	Description	Current rating
DOM63SW	Switch	63A
DOM100SW	Switch	100A
DOM63R30	RCCB	63A 30mA
DOM80R30	RCCB	80A 30mA
DOM100R100	RCCB	100A 100mA
DOM100R100SP	RCCB (TD)	100A 100mA
DOM100R30P	RCCB	100A 30mA



For split load applications select a split load kit

Split load kits [includes cables and RCCB (RCD)]

Reference number	Description	Current rating
DOM63R30KIT2	RCCB and cables	63A 30mA
DOM80R30KIT2	RCCB and cables	80A 30mA

Select consumer units with switch/RCD's fitted

Split load kits [includes cables and RCCB (RCD)]



Reference number Insulated Units	Reference number Metal units	Total no. ways	Description	Switch only ways	RCD1 protected ways	RCD2 protected ways
DOMR4R4CU	DOMR4R4MCU	8	4 + 4 way configurable Domae CU 100A Sw and 2 63A RCDs		4	4
DOMR6R6CU	DOMR6R6MCU	12	6 + 6 way configurable Domae CU 100A Sw and 2 63A RCDs		6	6
DOMR6R6DCU	DOMR6R6DMCU	12	6 + 6 way configurable Domae CU 100A Sw and 2 80A RCDs		6	6
DOMR8R8DCU		16	8 + 8 way configurable Domae CU 100A Sw and 2 80A RCDs		8	8
DOMS2R5R5DCU	DOMS2R5R5DMCU	12	2 + 5 + 5 way Domae CU 100A Sw and 2 80A RCDs	2	5	5
DOMS2R7R7DCU		16	2 + 7 + 7 way Domae CU 100A Sw and 2 80A RCDs	2	7	7

Select consumer unit package

Pre-assembled ready to install consumer unit packages



Reference number	Description	Typical application
SHOWER6340D	2 way enclosure + 63A 30mA RCCB and 40A MCB	Electric shower supply
SHOWER6345D	2 way enclosure + 63A 30mA RCCB and 45A MCB	Electric shower supply
GARAGE63D	2 way IP55 enclosure + 63A RCD, 6A and 16A MCB	Electricity supply to a garage

Domae - ready to install consumer unit packages

Domae ready to install consumer unit packages are supplied complete with enclosure, incoming and outgoing devices and all internal connections required. Order 1 part number then simply fix, connect, test and energise.



Insulated kitbox

Pre-assembled ready to install consumer unit packages

Reference number	Description	Typical application
KITBOXD	12 way enclosure, switch, 63A 30mA RCCB kit, 3 x 6A MCB's, 2 x 16A MCB's, 4 x 32A MCB's, 1 x 40A MCB	General residential rebuild or rewire
KITBOXD80	12 way enclosure, switch, 80A 30mA RCCB kit, 3 x 6A MCB's, 2 x 16A MCB's, 4 x 32A MCB's, 1 x 40A MCB	General residential rebuild or rewire



Metal kitbox

Pre-assembled ready to install consumer unit packages

Reference number	Description	Typical application
KITBOXDM	12 way enclosure, switch, 63A 30mA RCCB kit, 3 x 6A MCB's, 2 x 16A MCB's	General residential rebuild or rewire
KITBOXDM1263	12 way enclosure, switch, 63A 30mA RCCB kit, 2 x 6A MCB's, 2 x 16A MCB's, 3 x 32A MCB's, 1 x 40A MCB	General residential rebuild or rewire
KITBOXDM1280	12 way enclosure, switch, 80A 30mA RCCB kit, 3 x 6A MCB's, 2 x 16A MCB's, 3 x 32A MCB's, 1 x 40A MCB	General residential rebuild or rewire

Select outgoing devices or accessories

SP 6kA MCBs (B curve)

Reference number	Description	Current rating
DOM03B6	MCB (B curve)	3A
DOM06B6	MCB (B curve)	6A
DOM10B6	MCB (B curve)	10A
DOM16B6	MCB (B curve)	16A
DOM20B6	MCB (B curve)	20A
DOM32B6	MCB (B curve)	32A
DOM40B6	MCB (B curve)	40A
DOM45B6	MCB (B curve)	45A
DOM50B6	MCB (B curve)	50A

SP 6kA MCBs (C curve)

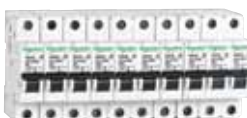
Reference number	Description	Current rating
DOM06C6	MCB (C curve)	6A
DOM10C6	MCB (C curve)	10A
DOM16C6	MCB (C curve)	16A

SP 6kA 1 module RCBO (B curve)

Reference number	Description	Current rating
DOM06B6R30	RCBO 30mA 1 Module 1P&N	6A
DOM10B6R30	RCBO 30mA 1 Module 1P&N	10A
DOM16B6R30	RCBO 30mA 1 Module 1P&N	16A
DOM20B6R30	RCBO 30mA 1 Module 1P&N	20A
DOM32B6R30	RCBO 30mA 1 Module 1P&N	32A
DOM40B6R30	RCBO 30mA 1 Module 1P&N	40A
DOM45B6R30	RCBO 30mA 1 Module 1P&N	45A

Accessories

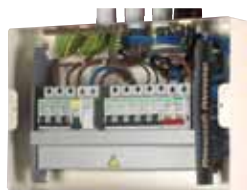
Reference number	Description
DOMLKIT	Door lock kit (for metal enclosure only)
DOMEARTHKIT	Additional earth terminals for clean earth or high integrity earthing
DOM16BKIT	Replacement/spare main busbar
SQODNBP	Blanking plate



Domae consumer units - dimensions & technical data



Insulated units				
Reference number	No. of ways	Height (mm)	Width (mm)	Depth (mm)
DOM2CU	2	240	189	127
DOM4CU	4	240	224	127
DOM6CU	6	240	260	127
DOM8CU	8	240	296	127
DOM12CU	12	240	368	127
DOM16CU	16	240	440	127
DOM20CU	20	240	510	127
DOMR4R4CU	8	240	368	127
DOMR6R6CU	12	240	440	127
DOMR6R6DCU	12	240	440	127
DOMS2R5R5DCU	12	240	440	127
DOMR8R8DCU	16	240	510	127
DOMS2R7R7DCU	16	240	510	127



Metal units				
Reference number	No. of ways	Height (mm)	Width (mm)	Depth (mm)
DOM2MCU	2	247	186	111
DOM4MCU	4	247	222	111
DOM6MCU	6	247	258	111
DOM8MCU	8	247	294	111
DOM12MCU	12	247	366	111
DOM16MCU	16	247	438	111
DOMR4R4MCU	8	247	366	111
DOMR6R6MCU	12	247	438	111
DOMR6R6DMCU	12	247	438	111
DOMS2R5R5DMCU	12	247	438	111

Note: Incoming and outgoing devices must be selected separately from the devices section - only applies to DOM**CU and DOM**MCU

Incoming devices available

- Switch disconnectors 63A & 100A
- RCCB's 63A/30mA 80A/30mA

Max. busbar splits - for split load

8 way	2+4	to	4+2
12 way	4+6	to	6+4
16 way	6+8	to	8+6

Technical data	
Max. busbar current (A)	100A
Max. operating voltage	230/240V @ 50Hz
Max. cable capacity	25 mm ² (earth and neutral bars)
Certification	BS EN 61439-3



Fully configurable
shrouded busbars



Lockable cover option
on metal units

Domae - device & technical data



Incoming devices - selection and technical data

Reference number	Description	No. poles	Current rating	Operating voltage (V)	Max. cable Cap. mm ²	Standards approval	Recommended tightening torque
DOM63SW	Switch	2	63A	230/240	35	BS EN 60947-3	3.5 N.m.
DOM100SW	Switch	2	100A	230/240	50	BS EN 60947-3	3.5 N.m.
DOM63R30	RCCB	2	63A 30mA	230/240	35	BS EN 61008	3.5 N.m.
DOM80R30	RCCB	2	80A 30mA	230/240	50	BS EN 61008	3.5 N.m.
DOM100R100	RCCB	2	100A 100mA	230/240	50	BS EN 61008	3.5 N.m.
DOM100R100SP	RCCB (TD)	2	100A 100mA	230/240	50	BS EN 61008	3.5 N.m.
DOM100R30P	RCCB	2	100A 30mA	230/240	50	BS EN 61008	3.5 N.m.



Outgoing 6kA MCBs and RCBOs

Reference number	Description	No. poles	Current rating	Operating voltage (V)	Max. cable Cap. mm ²	Standards approval	Recommended tightening torque
Single pole circuit breaker (B curve)							
DOM03B6	MCB	1	3A	230/240	25	BS EN 60898	2 N.m.
DOM06B6	MCB	1	6A	230/240	25	BS EN 60898	2 N.m.
DOM10B6	MCB	1	10A	230/240	25	BS EN 60898	2 N.m.
DOM16B6	MCB	1	16A	230/240	25	BS EN 60898	2 N.m.
DOM20B6	MCB	1	20A	230/240	25	BS EN 60898	2 N.m.
DOM32B6	MCB	1	32A	230/240	35	BS EN 60898	3.5 N.m.
DOM40B6	MCB	1	40A	230/240	35	BS EN 60898	3.5 N.m.
DOM45B6	MCB	1	45A	230/240	35	BS EN 60898	3.5 N.m.
DOM50B6	MCB	1	50A	230/240	35	BS EN 60898	3.5 N.m.
Single pole circuit breaker (C curve)							
DOM06C6	MCB	1	6A	230/240	25	BS EN 60898	2 N.m.
DOM10C6	MCB	1	10A	230/240	25	BS EN 60898	2 N.m.
DOM16C6	MCB	1	16A	230/240	25	BS EN 60898	2 N.m.
Single pole circuit breaker (B curve)							
DOM06B6R30	1 Module RCBO	1	6A	230/240	25	BS EN 61009	2 N.m.
DOM10B6R30	1 Module RCBO	1	10A	230/240	25	BS EN 61009	2 N.m.
DOM16B6R30	1 Module RCBO	1	16A	230/240	25	BS EN 61009	2 N.m.
DOM20B6R30	1 Module RCBO	1	20A	230/240	25	BS EN 61009	2 N.m.
DOM32B6R30	1 Module RCBO	1	32A	230/240	25	BS EN 61009	2 N.m.
DOM40B6R30	1 Module RCBO	1	40A	230/240	25	BS EN 61009	2 N.m.
DOM45B6R30	1 Module RCBO	1	45A	230/240	25	BS EN 61009	2 N.m.



Qwikline II consumer units

The Qwikline II range of consumer units provides arguably the highest levels of residential circuit protection safety.

A wide range of switch disconnectors, RCDs and MCBs is also complimented by an single pole RCBO offer for maximum continuity of supply in the event of fault.

What really sets Qwikline II apart, is the plug-on breaker concept and fully encapsulated busbars. All outgoing devices can be connected in seconds and with no incoming terminal to tighten, the correct mechanical connection force is guaranteed every time. For unused ways, Qwikline II's unique fully encapsulated busbar system means that the highest levels of installer and end user protection are always guaranteed.

Even with the front cover of the enclosure removed, the main busbar is protected to IP2X, meaning it remains finger safe but allows access with test probes by the installer.

For energy management and safety Qwikline II can also accept a wide range of control devices.





Qwikline II consumer unit

Features and benefits

- > Tested in accordance with BS EN 61439-3 and CM16 tested
- > Unrestricted cable entry can be made from any side
- > Totally encapsulated busbar system. Provides complete finger safety to IP2XB, bringing new levels of safety to consumer unit design
- > Incoming devices can be ordered separately giving over 1000 combinations from just 46 references
- > Single pole RCBO. Tested to BS EN 61009
- > Unique MCB/RCBO fixing system. Retains plug-on philosophy for speed of installation and guaranteed connections. Provides the additional benefit of a rear clip which increases device security once plugged on
- > Control devices may be installed on any outgoing way. No extra mounting accessories required
- > Lockable cover option now available on metal units

Qwikline II - quick selector



Select consumer unit: insulated units

Standard		Split load			Dual incomer		
Reference number	No. of ways	Reference number	No. of ways Cir A	RCD ways	Reference number	No. of ways Cir A	Cir B
SQO2	2	SQOS2R4	2	4	SQO204	2	4
SQO4	4	SQOS3R3	3	3	SQO303	3	3
SQO6	6	SQOS4R2	4	2	SQO402	4	2
SQO8	8	SQOS4R6	4	6	SQO406	4	6
SQO12	12	SQOS5R5	5	5	SQO505	5	5
SQO16	16	SQOS6R4	6	4	SQO604	6	4
SQO23	24	SQOS7R3	7	3	SQO703	7	3
		SQOS7R7	7	7	SQO707	7	7

Multiple split busbars - supplied with switch disconnectors and RCDs

Reference number	Total ways	Switch ways	RCD 1 ways	RCD 2 ways
SQOSR6R6	12	–	6 (63A)	6 (63A)
SQODS2R5R5	12	2	5 (100A)	5 (100A)
SQOS2R5R5	12	2	5 (63A)	5 (63A)

Select consumer unit: metal units

Standard		Split load			Dual incomer			Multi tariff			
Reference number	No. of ways	Reference number	No. of Cir A	ways RCD ways	Reference number	No. of Cir A	ways Cir B	Reference number	No. of Cir A	ways Cir B	Cir C
SQOM2	2	SQOMS4R6	4	6	SQOM406	4	6	SQOM60501	6	5	1
SQOM4	4	SQOMS5R5	5	5	SQOM505	5	5	SQOM70401	7	4	1
SQOM6	6	SQOMS6R4	6	4	SQOM604	6	4				
SQOM8	8	SQOMS7R7	7	7	SQOM707	7	7				
SQOM12	12										
SQOM16	16										
SQOM 24	24										

Note: Flush mounted standard metal consumer units are available by adding an 'F' suffix to the above part numbers. e.g. SQOM2F = 2 way flush mounted unit.
For flush mounting of split load, dual incomer and multi tariff boards use SQOFC12 for 10 module boards and SQOFC16 for 14 module boards.

Multiple split busbars - supplied with switch disconnectors and RCDs

Reference number	Total ways	Switch ways	RCD 1 ways	RCD 2 ways
SQOMSR6R6	12	–	6 (63A)	6 (63A)
SQOMDS2R5R5	12	2	5 (100A)	5 (100A)
SQOMS2R5R5	12	2	5 (63A)	5 (63A)

Select incoming devices

Reference number	Description	No. of poles	Current rating
SQO1100M	2 pole switch disconnector	2	100A
SQO1100L	2 pole terminal block	2	100A
SQOE100030	RCCB	2	100A, 30mA
SQOE100100	RCCB	2	100A, 100mA
SQOE100300	RCCB	2	100A, 300mA
SQOE100100S	RCCB	2	100A, 100mA TD
SQOE063030	RCCB	2	63A, 30mA
SQOE063100	RCCB	2	63A, 100mA

Note: All Qwikline II consumer units are supplied without incoming devices. Any incoming device may be installed at the incoming point, or busbar split in any Qwikline II consumer unit.

Requirements

Standard units – 1 incoming device required.
Split load units – 1 main incoming device and 1 busbar split device required.

Dual incomer units – 2 incoming devices required.
Multi tariff units – 3 incoming devices required.



Qwikline II - quick selector



Note:
All control devices are suitable for mounting in any Qwikline II consumer unit.

Select outgoing devices

SP 6kA MCBs (B curve)

Reference number	Description	Current rating
SQO103EB6	MCB (B Curve)	3A
SQO106EB6	MCB (B Curve)	6A
SQO110EB6	MCB (B Curve)	10A
SQO116EB6	MCB (B Curve)	16A
SQO120EB6	MCB (B Curve)	20A
SQO125EB6	MCB (B Curve)	25A
SQO132EB6	MCB (B Curve)	32A
SQO140EB6	MCB (B Curve)	40A
SQO150EB6	MCB (B Curve)	50A
SQO163EB6	MCB (B Curve)	63A

SP 6kA MCBs (C curve)

Reference number	Description	Current rating
SQO103EC6	MCB (C Curve)	3A
SQO106EC6	MCB (C Curve)	6A
SQO110EC6	MCB (C Curve)	10A
SQO116EC6	MCB (C Curve)	16A
SQO120EC6	MCB (C Curve)	20A
SQO125EC6	MCB (C Curve)	25A
SQO132EC6	MCB (C Curve)	32A
SQO140EC6	MCB (C Curve)	40A
SQO150EC6	MCB (C Curve)	50A
SQO163EC6	MCB (C Curve)	63A

SP 6kA 1 Module RCBO (B curve)

Reference number	Description	Current rating
SQOR106B03	RCBO (30mA) 1 Module 1P&N	6A, 30mA
SQOR110B03	RCBO (30mA) 1 Module 1P&N	10A, 30mA
SQOR116B03	RCBO (30mA) 1 Module 1P&N	16A, 30mA
SQOR120B03	RCBO (30mA) 1 Module 1P&N	20A, 30mA
SQOR132B03	RCBO (30mA) 1 Module 1P&N	32A, 30mA
SQOR145B03	RCBO (30mA) 1 Module 1P&N	45A, 30mA

Select control devices and accessories

Reference number	Device	Ways occupied
15959	2P 25A contactor	1
15962	4P 25A contactor	2
15966	2P 40A contactor	2
15967	3P 40A contactor	3
15968	4P 40A contactor	3
15972	3P 63A contactor	3
15510	1P Impulse relay (16A)	1
15520	2P Impulse relay (16A)	1
15535	Changeover relay (10A)	1
15321	Bell (8-12V)	1
15214	Transformer 240-8V (4VA)	2
15323	Buzzer (8-12V)	1
CCT15368	Light sensitive switch	3.5
15336	Single pole time switch 24hr	1
CCT15720	Single channel electrical time switch 7 day	2.5
CCT15722	Dual channel electrical time switch 7 day	2.5
15363	1P Delay off timer	1
Accessories		
SQODNBP	DIN blanking plates	5
CPS9	Half mod spacer	0.5
QOEPLA	Padlock device (suitable for use with all Qwikline II devices)	–
QOPL	Padlock	–
DOMLKIT	Door lock kit (metal units only)	–

Qwikline II - standard consumer unit technical data

Insulated units				
Reference number	No. of ways	Height (mm)	Width (mm)	Depth (mm)
SQO2	2	240	189	127
SQO4	4	240	224	127
SQO6	6	240	260	127
SQO8	8	240	296	127
SQO12	12	240	368	127
SQO16	16	240	440	127
SQO23	24	480	368	127
SQOSR6R6	12	240	440	127
SQOS2R5R5	12	240	440	127
SQODS2R5R5	12	240	440	127

Metal units				
Reference number	No. of ways	Height (mm)	Width (mm)	Depth (mm)
SQOM2	2	247	186	111
SQOM4	4	247	222	111
SQOM6	6	247	258	111
SQOM8	8	247	294	111
SQOM12	12	247	366	111
SQOM16	16	247	438	111
SQOM24	24	247	366	111
SQOMSR6R6	12	247	438	111
SQOMDS2R5R5	12	247	438	111
SQOMS2R5R5	12	247	438	111

Note: Incoming and outgoing devices must be selected separately from the Qwikline II devices section.

The following ref's are supplied with switch disconnector and RCDs fitted:-

SQOSR6R6, SQOS2R5R5, SQODS2R5R5, SQOMSR6R6, SQOMSR5R5, SQOMDSR5R5

Incoming devices available

- Switch disconnector – 100A
- Terminal block – 100A
- RCCB's – 63A/30mA, 63A/100mA, 100A/30mA, 100A/100mA, 100A/300mA, 100A/100mA TD

Incoming

Switch disconnector – 100A

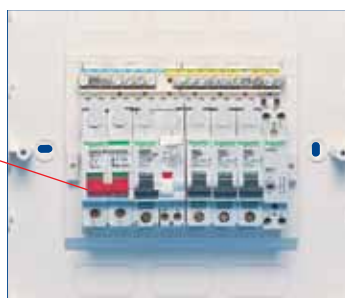
Terminal block – 100A

RCCB's – 63 or 100A/30mA,
100 or 300mA

Outgoing

MCB's – B or C curve, 3 - 50A, 6kA

RCBO's – B curve 6 - 45A, 6kA



Technical data		
	Metal	Insulated
Max. busbar current rating (A)	100	100
Max. operating voltage (V)	240	240
Operating frequency (Hz)	50	50
Max. incoming cable capacity mm ² (phase and neutral)	50	50
Max. outgoing cable capacity mm ²	25	25
Certification	BS EN 61439-3	BS EN 61439-3
IP rating BS EN 60529 (internal)	2XB	2XB

Qwikline II - split load consumer unit technical data

Insulated units					
Reference number	No. of ways		Height	Dimensions (mm)	
	Cir A	RCD ways		Width	Depth
SQOS2R4	2	4	240	296	127
SQOS3R3	3	3	240	296	127
SQOS4R2	4	2	240	296	127
SQOS4R6	4	6	240	368	127
SQOS5R5	5	5	240	368	127
SQOS6R4	6	4	240	368	127
SQOS7R3	7	3	240	368	127
SQOS7R7	7	7	240	440	127

Metal units					
Reference number	No. of ways		Height	Dimensions (mm)	
	Cir A	RCD ways		Width	Depth
SQOMS4R6	4	6	247	366	111
SQOMS5R5	5	5	247	366	111
SQOMS6R4	6	4	247	366	111
SQOMS7R7	7	7	247	438	111

Note: Split load units are supplied without incoming devices.

These should be selected separately from the Qwikline II devices section.

e.g. SQOS2R4 + SQO1100M + SQOE063030 = 2+4 Split load insulated consumer unit supplied with site installable switch disconnector and 63A 30mA RCCB.

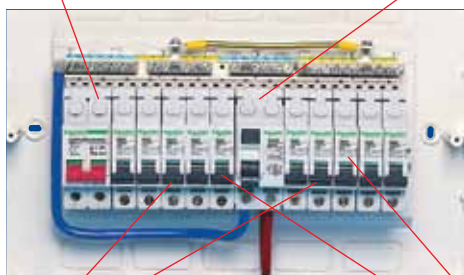
Any RCCB may be selected as the main incomer or split portion device.

Incoming

Switch disconnector – 100A
Terminal block – 100A
RCCB's – 63 or 100A/30mA,
100 or 300mA

Split

RCCB – 63 or 100A/30mA,
100 or 300mA



Control devices

May be installed at any outgoing point on the RCD protected or unprotected side

Outgoing

MCB's – B or C curve, 3 - 50A
RCBO's – B curve 45A, 6kA

Technical data		
	Metal	Insulated
Max. busbar current rating (A)	100	100
Max. operating voltage (V)	240	240
Operating frequency (Hz)	50	50
Max. incoming cable capacity mm ² (phase and neutral)	50	50
Max. outgoing cable capacity mm ²	25	25
Certification	BS EN 61439-3	BS EN 61439-3
IP rating BS EN 60529 (internal)	2XB	2XB

Qwikline II - dual incomer and multi tariff technical data

Insulated units

Insulated units					
Reference number	No. of ways		Height	Dimensions (mm)	
	Cir A	Cir B		Width	Depth
Dual incomer					
SQO204	2	4	240	296	127
SQO303	3	3	240	296	127
SQO402	4	2	240	296	127
SQO406	4	6	240	368	127
SQO505	5	5	240	368	127
SQO604	6	4	240	368	127
SQO703	7	3	240	368	127
SQO707	7	7	240	440	127

Metal units

Metal units						
Reference number	No. of ways			Height	Dimensions (mm)	
	Cir A	Cir B	Cir C		Width	Depth
Dual incomer						
SQOM406	4	6	–	247	378	111
SQOM505	5	5	–	247	378	111
SQOM604	6	4	–	247	378	111
SQOM707	7	7	–	247	450	111
Multi tariff						
SQOM60501	6	5	1	247	450	111
SQOM70401	7	4	1	247	450	111

Note: Incoming and outgoing devices must be selected separately from the Qwikline II devices section.
One incoming device is required per circuit.

Incoming

Switch disconnector – 100A
Terminal block – 100A
RCCB's – 63 or 100A/30mA,
100 or 300mA

Control Devices

May be installed at any
outgoing position



Outgoing

MCB's – B or C curve, 3 - 50A, 6kA
RCBO's – B curve 6 - 45A, 6kA

Technical data

	Metal	Insulated
Max. busbar current rating (A)	100	100
Max. operating voltage (V)	240	240
Operating frequency (Hz)	50	50
Max. incoming cable capacity mm² (phase and neutral)	50	50
Max. outgoing cable capacity mm²	25	25
Certification	BS EN 61439-3	BS EN 61439-3
IP rating BS EN 60529 (internal)	2XB	2XB

Qwikline II - devices technical data



Qwikline II - incoming devices

Reference number	Description	No. of poles	Current rating	Operating voltage (V)	Max. cable cap. mm ²	Standards approval	Recommended tightening torque
SQO1100M	Switch dis.	2	100A	230/240	50	BS EN 60947-3	3.5 N.m.
SQO1100L	Terminal block	2	100A	230/240	50	–	3.5 N.m.
SQOE063030	RCCB	2	63A, 30mA	230/240	35	BS EN 61008	3.5 N.m.
SQOE063100	RCCB	2	63A, 100mA	230/240	35	BS EN 61008	3.5 N.m.

Note: All Qwikline II consumer units are supplied without incoming devices. Any incoming device may be installed at any incoming point, or busbar split in any Qwikline II consumer unit.

Requirements

Standard units – 1 incoming device required.

Dual incomer units – 2 incoming devices required.

Split load units – 2 incoming devices required.

Multi tariff units – 3 incoming devices required.

Qwikline II - outgoing devices

Miniature circuit breakers (B curve)

Reference number	Current rating	Operating voltage (V)	Breaking cap. (I _{cn} (kA))	Max. cable cap. mm ²	Standards approval	Recommended tightening torque
SQO103EB6	3A	230/240	6	25	BS EN 60898	2 N.m.
SQO106EB6	6A	230/240	6	25	BS EN 60898	2 N.m.
SQO110EB6	10A	230/240	6	25	BS EN 60898	2 N.m.
SQO116EB6	16A	230/240	6	25	BS EN 60898	2 N.m.
SQO120EB6	20A	230/240	6	25	BS EN 60898	2 N.m.
SQO125EB6	25A	230/240	6	25	BS EN 60898	2 N.m.
SQO132EB6	32A	230/240	6	35	BS EN 60898	3.5 N.m.
SQO140EB6	40A	230/240	6	35	BS EN 60898	3.5 N.m.
SQO150EB6	50A	230/240	6	35	BS EN 60898	3.5 N.m.
SQO163EB6	63A	230/240	6	35	BS EN 60898	3.5 N.m.

Miniature circuit breakers (C curve)

Reference number	Current rating	Operating voltage (V)	Breaking cap. (I _{cn} (kA))	Max. cable cap. mm ²	Standards approval	Recommended tightening torque
SQO103EC6	3A	230/240	6	25	BS EN 60898	2 N.m.
SQO106EC6	6A	230/240	6	25	BS EN 60898	2 N.m.
SQO110EC6	10A	230/240	6	25	BS EN 60898	2 N.m.
SQO116EC6	16A	230/240	6	25	BS EN 60898	2 N.m.
SQO120EC6	20A	230/240	6	25	BS EN 60898	2 N.m.
SQO125EC6	25A	230/240	6	25	BS EN 60898	2 N.m.
SQO132EC6	32A	230/240	6	35	BS EN 60898	3.5 N.m.
SQO140EC6	40A	230/240	6	35	BS EN 60898	3.5 N.m.
SQO150EC6	50A	230/240	6	35	BS EN 60898	3.5 N.m.
SQO163EC6	63A	230/240	6	35	BS EN 60898	3.5 N.m.

RCBO's (B curve)

Reference number	Current rating	Operating voltage (V)	Breaking cap. (I _{cn} (kA))	Max. cable cap. mm ²	Standards approval	Recommended tightening torque
SQOR106B03	6A, 30mA (AC class)	230/240	6	10	BS EN 61009	2 N.m.
SQOR110B03	10A, 30mA (AC class)	230/240	6	10	BS EN 61009	2 N.m.
SQOR116B03	16A, 30mA (AC class)	230/240	6	10	BS EN 61009	2 N.m.
SQOR120B03	20A, 30mA (AC class)	230/240	6	10	BS EN 61009	2 N.m.
SQOR132B03	32A, 30mA (AC class)	230/240	6	16	BS EN 61009	2 N.m.
SQOR145B03	45A, 30mA (AC class)	230/240	6	16	BS EN 61009	2 N.m.



Qwikline II - insulated unit dimensions

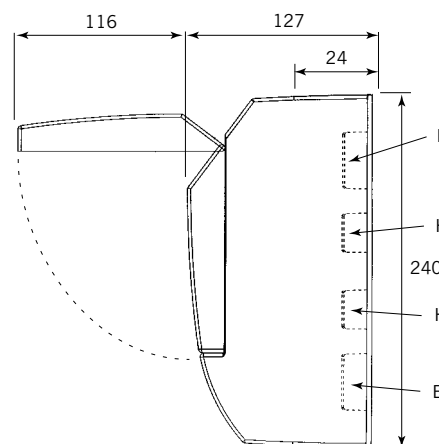
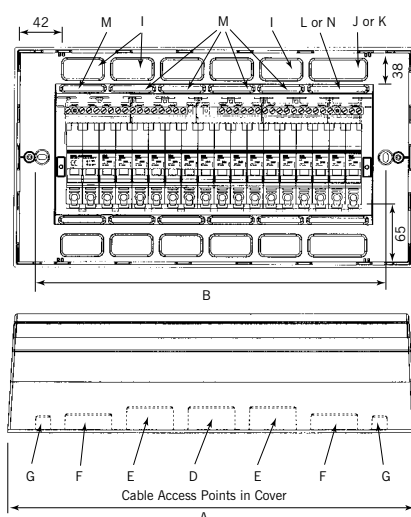
Insulated units				
Reference number	No. of ways	Type	Dimensions (mm)	
			A	B
SQO2	2	Standard	189	126
SQO4	4	Standard	224	162
SQO6	6	Standard	260	198
SQO8	8	Standard	296	234
SQO12	12	Standard	368	306
SQO16	16	Standard	440	378
SQO23	24	Standard	368	306
SQO204	2+4	Dual	296	234
SQO303	3+3	Dual	296	234
SQO402	4+2	Dual	296	234
SQO406	4+6	Dual	368	306
SQO505	5+5	Dual	368	306
SQO604	6+4	Dual	368	306
SQO703	7+3	Dual	368	306
SQO707	7+7	Dual	440	378
SQOS2R4	2+4	Split	296	234
SQOS3R3	3+3	Split	296	234
SQOS4R2	4+2	Split	296	234
SQOS4R6	4+6	Split	368	306
SQOS5R5	5+5	Split	368	306
SQOS6R4	6+4	Split	368	306
SQOS7R3	7+3	Split	368	306
SQOS7R7	7+7	Split	440	378
SQOSR6R6	6+6	Split	440	378
SQOS2R5R5	2+5+5	Multiple	440	378
SQODS2R5R5	2+5+5	Multiple	440	378

Type	D	E	F	G	H	I	J	K	L	M	N
2 way		6		4	6	2	2		2	2	
4 way		6		4	8	4				4	
6 way	2	8		4	4	6				6	
8 way	2	4	4	4	4	6	2		2	6	
12 way	4	6	2	4	4	10				10	
16 way	6	4	4	4	4	10		2		10	2

Note: 24 way unit is made up of 2, stacked, 12 way enclosures.

Knockout quantities for Split load and Dual incomer units are obtained by adding the total number of outgoing ways, plus 2 then relating to the table, eg. 7 + 7 ways + 2 =16/16 way knockout quantity.

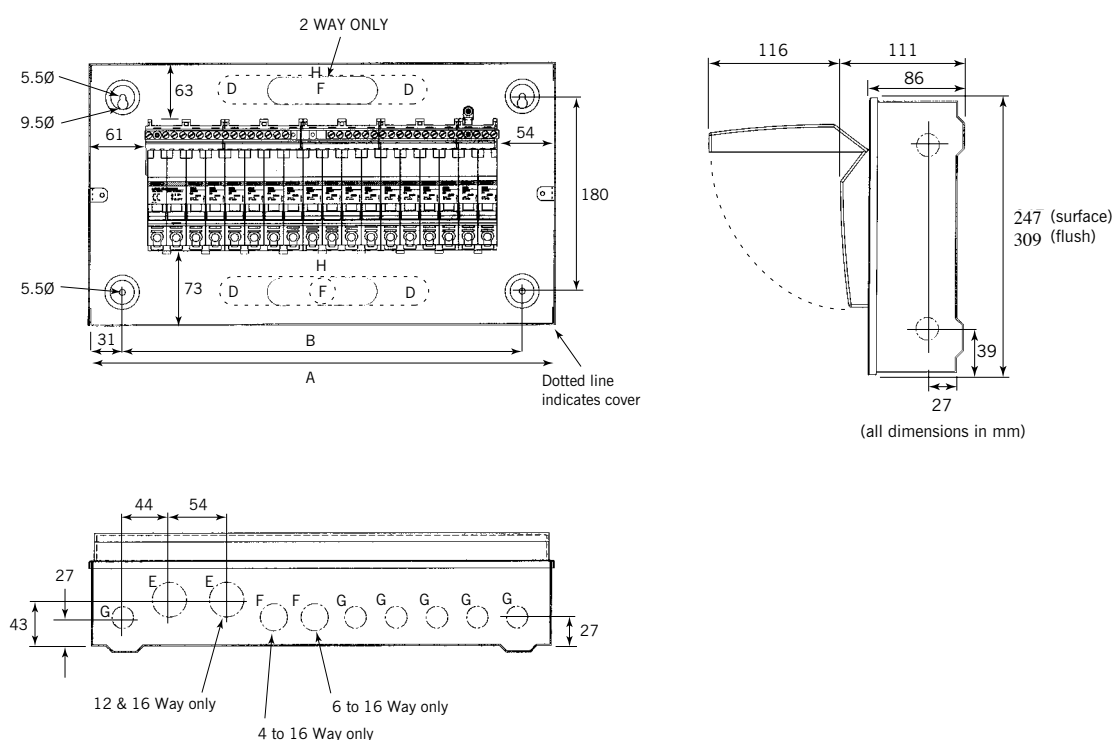
Cable entry sizes (mm)	
D	23 x 51
E	15 x 38
F	15 x 51
G	13 x 16
H	15 x 25
I	25 x 48
J	25 x 30
K	25 x 65
L	13 x 30
M	13 x 48
N	13 x 68



Qwikline II - metal unit dimensions

Metal units									
Reference number	No. of ways	Type	Dimensions (mm)		No. of knockouts				
			A	B	D 250 x 76	E 320mm	F 250mm	G 200mm	H
SQOM2	2	Standard	181	119	–	2	2	8	–
SQOM4	4	Standard	217	155	2	2	2	8	–
SQOM6	6	Standard	253	191	–	2	4	8	–
SQOM8	8	Standard	289	227	–	2	4	10	2
SQOM12	12	Standard	361	299	4	4	4	12	–
SQOM16	16	Standard	433	371	4	4	4	16	–
SQOM2F	2	Flush	248	119	–	2	2	8	–
SQOM4F	4	Flush	284	155	2	2	2	8	–
SQOM6F	6	Flush	320	191	–	2	4	8	2
SQOM8F	8	Flush	356	227	–	2	4	10	2
SQOM12F	12	Flush	428	299	4	4	4	12	–
SQOM16F	16	Flush	500	371	4	4	4	16	–
SQOMS4R6	4+6	Split	378	299	4	4	4	12	–
SQOMS5R5	5+5	Split	378	299	4	4	4	12	–
SQOMS6R4	6+4	Split	378	299	4	4	4	12	–
SQOMS7R7	7+7	Split	450	371	4	4	4	16	–
SQOM406	4+6	Dual	378	299	4	4	4	12	–
SQOM505	5+5	Dual	378	299	4	4	4	12	–
SQOM604	6+4	Dual	378	299	4	4	4	12	–
SQOM707	7+7	Dual	450	371	4	4	4	16	–
SQOM60501	6+5+1	Multi tariff	450	371	4	4	4	16	–
SQOM70401	7+4+1	Multi tariff	450	371	4	4	4	16	–
SQOMSR6R6	6+6	Multiple	450	371	4	4	4	16	–
SQOMDS2R5R5	2+5+5	Multiple	450	371	4	4	4	16	–
SQOMS2R5R5	2+5+5	Multiple	450	371	4	4	4	16	–

Note: Rear of enclosure = 242mm high



RSD unit mounted RCCB's and insulated enclosures

Unit mounted RCCB's and their associated enclosures offer a cost effective method of supplementing existing installations with the benefits of earth fault protection. Enclosures may be mounted at the incoming point of the installation or locally to the load eg, in garages or sheds with socket outlets.

- Test button enables RCCB to be tested periodically
- Comply with BS EN 61008. Specification for residual current operated circuit breakers
- Rated voltage 240/415Vac single/three phase

For short circuit back-up protection, maximum fuse rating:-

RSD 25A	Fuse to BS 88 Type T 40A or BS 1361 Type RH 30A
RSD 40A	Fuse to BS 88 Type T 50A or BS 1361 Type RH 40A
RSD 63A	Fuse to BS 88 Type T 63A or BS 1361 Type RH 60A
RSD 80A	Fuse to BS 88 Type T 80A or BS 1361 Type RH 80A
RSD 100A	Fuse to BS 88 Type T 100A or BS 1361 Type RH 100A

Residual current breakers

Reference number	Description	Terminal capacity mm ²	Height	Dimensions (mm) Width	Depth	Weight kg
RSD25032	25A RCCB 30mA trip 2 pole	35	81	36	75	0.227
RSD25302	25A RCCB 300mA trip 2 pole	35	81	36	75	0.227
RSD40032	40A RCCB 30mA trip 2 pole	35	81	36	75	0.227
RSD40102	40A RCCB 100mA trip 2 pole	35	81	36	75	0.227
RSD40302	40A RCCB 300mA trip 2 pole	35	81	36	75	0.227
RSD63032	63A RCCB 30mA trip 2 pole	35	81	36	75	0.227
RSD63102	63A RCCB 100mA trip 2 pole	35	81	36	75	0.227
RSD63302	63A RCCB 300mA trip 2 pole	35	81	36	75	0.227
RSD80032	80A RCCB 30mA trip 2 pole	50	81	36	75	0.227
RSD80102	80A RCCB 100mA trip 2 pole	50	81	36	75	0.227
RSD100032	100A RCCB 30mA trip 2 pole	50	81	36	75	0.227
RSD100102	100A RCCB 100mA trip 2 pole	50	81	36	75	0.227

Individual RCCB insulated enclosures

Reference number	Description	Height	Dimensions (mm) Width	Depth	Weight kg
13392	2 x 18mm module IP40 protection	150	50	60	0.10
RSD4IP54	4 x 18mm module IP54 protection	200	110	112	0.35

A cost effective method of providing earth fault protection for existing single circuits or entire installations.





Notes



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