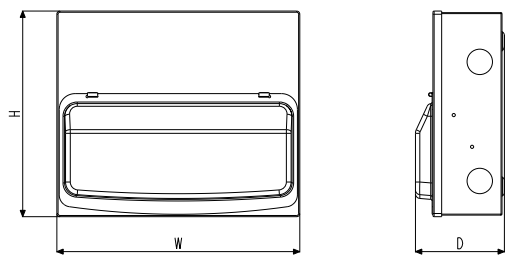
Consumer unit

Part Number and Line Drawings

Part No.	Description
SMS04	100A MAIN SWITCH 4WAY
SMS08	100A MAIN SWITCH 8WAY
SMS12	100A MAIN SWITCH 12WAY
SMS16	100A MAIN SWITCH 16WAY
SMS22	100A MAIN SWITCH 22WAY
SMSPD07	100A MAIN SWITCH 7 WAY T2 SPD
SMSPD11	100A MAIN SWITCH 11 WAY T2 SPD
SMSPD15	100A MAIN SWITCH 15 WAY T2 SPD
SMSPD21	100A MAIN SWITCH 21 WAY T2 SPD
SMSDR11	100A MAIN SWITCH, DUAL RCD T2 SPD
SRCDB04	RCD 4 WAY 63A 30mA TYPE A
SRCDB08	RCD 8 WAY 80A 30mA TYPE A
SE4	6 MODULE ENCLOSURE (N cable&busbar)
SEV32	EV DIST 100A MAIN SWITCH + 2P 32A 30MA MINI RCBO + T2 SPD
SGU63	GARAGE UNIT 63A 30MA TYPE A B6 B16 MCBS
SSF10	100A Main Switch + 63/80/100A fuse and fuseholder
SPMSPD07	100A Main Switch + T2 SPD 7 WAY with Test switch and Gland
SPMSPD11	100A Main Switch + T2 SPD 11 WAY with Test switch and Gland
SPMSPD15	100A Main Switch + T2 SPD 15 WAY with Test switch and Gland
SPMSPD21	100A Main Switch + T2 SPD 21 WAY with Test switch and Gland



Dimensions Value

EV Dis.	Garage Unit	Empty Enclosure	Main Switch Only	Main Switch + SPD	Main Switch + Fuse	Main Switch + Dual RCD	RCD (as main switch)	X-Series (Main Switch + SPD + Testing Switch + Gland)	Dimensions (HxWxD) mm
-	SGU63	SE4	-	-	-	-	-	-	259 x 162 x 88
SEV32	-	-	SMS04	-	-	-	SRCDB04	-	259 x 162 x 112
-	-	-	SMS08	SMSPD07	-	-	SRCDB08	SPMSPD07	259 x 234 x 112
-	-	-	SMS12	SMSPD11	SSF10	-	-	SPMSPD11	259 x 306 x 112
-	-	-	SMS16	SMSPD15	-	SMSDR11	-	SPMSPD15	259 x 378 x 112
-	-	-	SMS22	SMSPD21	-	-	-	SPMSPD21	259 x 486 x 112

Technical Information

Standards (TABLE 1)	
Device	Standard
Consumer unit	BS/EN 61439-3
Main switch	IEC/EN 60947-3
RCD	IEC/EN 61008-1
MCB	IEC/EN 60898-1
RCBO	IEC/EN 61009-1
SPD	IEC/EN 61643-11
AFDD/RCBO	IEC/EN 61009-1; IEC/EN 62606
IP rating	IP3X
IK rating	09
Voltage rating	230V 50/60Hz
Current	100A Max.
Finish	RAL 9001 powder coated finish
Mounting	Keyhole fixings in all corners

Installation

- Remove knockouts to facilitate cable entry as required, and insert grommets.
- Mount the enclosure base using wall plugs and screws as appropriate, ensuring it is fixed. Feed circuit cables through the knockouts as required.
- Fit the busbar into either the Main Switch or RCD and MCBs. The busbar may need cutting and shortening to less MCBs/RCBOs than it is made for. Fit the live busbar shield.
- Cut, dress and terminate the circuit cables, making sure the neutral and earth conductors are terminated in the corresponding circuit number terminals. Earth conductors should be appropriately sleeved. Test the installation in accordance with the latest edition of the IET Wiring Regulations (BS 7671).

Connection and Testing

- RCD/RCBO should be tested as the standard requirement, as well as verification that the earth loop impedance requires are met.
- Check the tightness of all terminals, including factory made terminations, as follows:

Recommended Torque Settings (TABLE 2)		
Device	Max. Cable Capacity	Torque
MAIN SWITCH	35mm²	3Nm
RCD	25mm²	2.5Nm
RCBO	16mm²(Input) / 10mm²(output)	2.5Nm (Input) / 1.2Nm (output)
AFDD/RCBO	16mm²(Input) / 10mm²(output)	2.5Nm (Input) / 1.2Nm (output)
MCB	16mm²	2.5Nm
SPD	16mm²(L) / 10mm²(N/PE)	2.0Nm/ 1.2Nm (N/PE)
Earth/Neutral Terminals	16mm²	2.5Nm

Safety Instructions

- All products must be installed by a competent/qualified electrician in accordance with relevant regulations and legislation, including the current Building Regulations and BS 7671, the IET Wiring Regulations.
- The total current supplied by the Consumer Unit must not exceed the rating of the Main Switch or the incoming supply.
- All unused out-going ways must have a blank fitted.
- Before fitting the front cover, check that all terminations are tight to the correct torque, including factory made connections.
- Thermal-magnetic MCBs that are adjacent to each other should not be continuously loaded or approaching their nominal rating when mounted in enclosures. If MCBs are to be continuously loaded, it is recommended that a factor of 0.6 is applied to its nominal rating.

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