

SENTINEL RANGE Consumer Units

Metal-Clad Single-Phase Boards IP20

Description

The distribution equipment and circuit protection range of metal consumer units by Europa Components are designed to fully comply with the requirements of BS EN 61439-3, EN 61439-3 and the requirements of the 18th Edition of BS 7671 IET Wiring Regulations. With multiple configurations available, the range offers flexible versatile solutions for installations.

Features & Benefits

- Clearly labelled earth and neutral bars positioned at the top of the enclosure.
- Din rail position allows a generous wiring space.
- Top, bottom and side knockouts for cable entries- multiple entries for consumer unit tails on all sides.
- Retain-screws for lid included, prevent screws from being lost during installation.



Number of modules:
6, 8, 10, 12, 14, 20



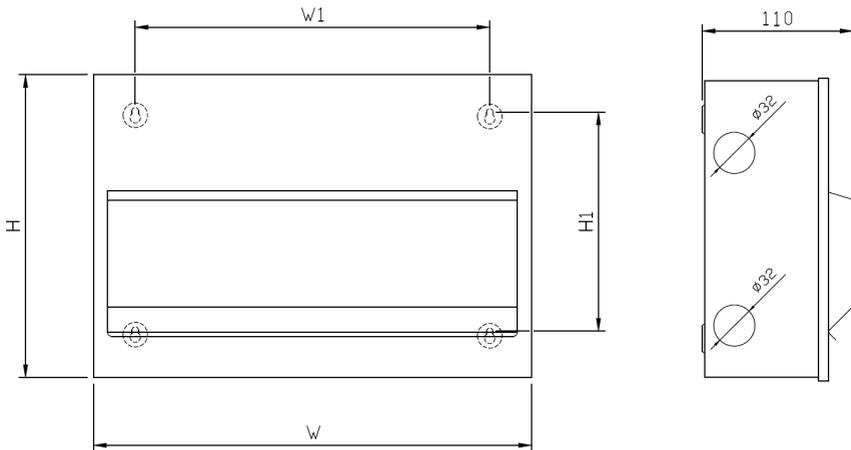
Sentinel Range of Metal
Consumer Units

Configuration :
R - RCCB Board
Leave blank for Empty Boards

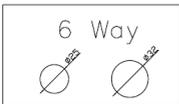
Part Number	Description
SLCU6	6 Module Empty CU Enclosure
SLCU8	8 Module Empty CU Enclosure
SLCU10	10 Module Empty CU Enclosure
SLCU12	12 Module Empty CU Enclosure
SLCU14	14 Module Empty CU Enclosure
SLCU20	20 Module Empty CU Enclosure
SLCU6R	6 Module 80A 2-Pole Type A RCD 4 Free Ways
SLCU8R	8 Module 80A 2-Pole Type A RCD 6 Free Ways
SLCU10R	10 Way + 80A 2-Pole Type A RCD 8 Free ways
SLCU12R	12 Way + 80A 2-Pole Type A RCD 10 Free ways
SLCU14R	14 Way + 80A 2-Pole Type A RCD 12 free ways
SLCU20R	20 Way + 80A 2-Pole Type A RCD 18 free ways

Unit Dimensions

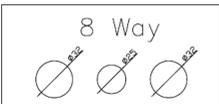
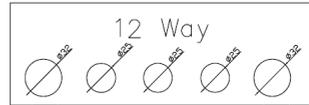
Part Number	W	W1	H	H1
SLCU6 SLCU6R	161	111	235	165
SLCU8 SLCU8R	197	132		
SLCU10 SLCU10R	233	168		
SLCU12 SLCU12R	279	203		
SLCU14 SLCU14R	305	240		
SLCU20 SLCU20R	431	366		



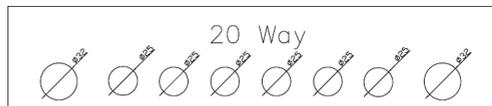
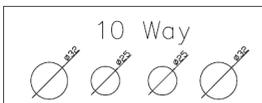
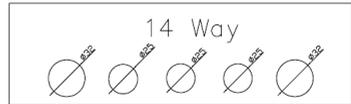
Notes:



Knockout placements are symmetrical between top and bottom / left and right sides.



Double-tier board has double the number of side knockouts.



Data Sheet

Unit Characteristics	
Rated and operational voltage (Un / Ue)	230V AC at 50Hz
Rated impulse withstand voltage (Uimp)	4kV
Rated current of Assembly (InA)	100A, 63A, 40A
Rated frequency (fn)	50Hz
Degree of Protection	IP20
Mechanical Impact Protection	IK05

Note: Rated diversity factor (RDF) only applies to continuously and simultaneously loaded circuits.

Type A Distribution Board for use by ordinary persons.

Standards

Device	Standard
Consumer Unit	BS EN 61439-3 / EN 61439-3
Main Switch	BS EN 60947-3 / EN 60947-3
RCCB	BS EN 61008-1 / EN 61008-1
MCB	BS EN 60898-1 / EN 60898-1
RCBO	BS EN 61009-1 / EN 61009-1

Fitting the Busbar

Fully open the terminals and insert the busbar within the clamp correctly.

Ensure that the widest pin is inserted to the main switch or the RCCB which is feeding the downstream MCBs.

The busbar cover provided has a raised lip on one side which provides finger protection when the busbar is installed. Ensure that this lip is facing up when installing the busbar. Ensure the end caps provided are used to fully cover the busbar when installed.

WARNING! ALL CONNECTIONS, INCLUDING FACTORY-MADE, MUST BE CHECKED FOR THE CORRECT INSTALLATION AND TIGHTNESS, PRIOR TO THE COMMISSIONING OF THE ELECTRICAL INSTALLATION.

Diversity Factors

as per BS EN 61439-3

Number of Outgoing Ways	Assumed loading factor
2 & 3	0.8
4 & 5	0.7
6 to 9	0.6
10+	0.5

Cable and Torque Settings

Device	Max Cable Capacity (mm ²)	Recommended Tightening Torque (Nm)
Main Switch / RCCBs	35	2.5
MCBs	16	2.0
1 Pole RCBO	16	In 2.0 Out 1.2
Earth and Neutral Terminals	25	2.0

Widest pin to be installed in the main switch or an RCCB feeding MCBs



End cap

Raised lip for finger protection

ENSURE THAT THESE INSTRUCTIONS ARE MADE AVAILABLE TO THE END USER FOR FUTURE REFERENCE

Recommended Accessories for the

Sentinel Range



Part Number	Description
SLCUACC01KIT	Accessory Kit Sticker and Way Labels, Pin Covers, Grommet Strip
SLCUNC16280	Flexible Neutral Cable (Blue) 16mm ² 280mm long
SLCUBB-10	10-Way Flexible Busbar with Cover
SLCUBB-14	14-Way Flexible Busbar with Cover
SLCUBB-18	18-Way Flexible Busbar with Cover
SLCUMMB	Metal Blank Module Covers
SLCUSPD2KIT	Type 2 SPD Kit (inc. Type 2 SPD, 32A MCB + Wiring)
AUSP-40J/1+1	Type 2 SPD Single Module Wide
SLCU6LL	Lockable Lid for 6-Way Boards
SLCU8LL	Lockable Lid for 8-Way Boards
SLCU10LL	Lockable Lid for 10-Way Boards
SLCU12LL	Lockable Lid for 12-Way Boards
SLCU14LL	Lockable Lid for 14-Way Boards
SLCU16LL	Lockable Lid for 16-Way Boards
SLCU18LL	Lockable Lid for 18-Way Boards
SLCU20LL	Lockable Lid for 20-Way Boards

Notes

This unit must be installed by a skilled or instructed person in accordance with the current BS 7671 IET Wiring Regulations

The product must be tested by skilled persons competent for verification after installation and before being put to service

Please ensure these instructions are available to the end user for future reference

Total load not to exceed the rating of the incoming main switch or RCCB

The total sum of the individual MCB ratings may exceed this value where there is an appropriate diversity factor on the installation (see diversity factor table above)

It is important to ensure that all connections, including factory-made, must be checked for the correct installation and tightness,

prior to the commissioning of the electrical installation

This product is only suitable for indoor installation