EUROPA

Data Sheet
EDS2143-001

This document must be retained for future reference.

It is the responsibility of the person installing the electrical equipment to ensure that the installation meets the requirements of the IET wiring regulations and is therefore 'fit for purpose'. Factors such as correct selection of components, cable sizing, protective devices and Earth bonding are all critical and should be checked prior to full testing and power-up. Any other regulations applicable to the equipment being installed such as the Machinery Directive and current health and safety legislation must also be adhered to.

All connections (including factory made) must be checked for the correct tightness prior to commissioning of the electrical installation.
All connections should also be inspected periodically to ensure correct tightness.

DO NOT USE POWER TOOLS ON THESE PRODUCTS

SENTINEL EV RANGE Consumer Units

Metal-Clad Single-Phase Boards IP20

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 the18th 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.
- Busbar with cover and fingertip protection provided.
- Multiple configurations from main-switched boards to SPD-protected fully loaded circuits available to suit a wide range of applications.

Part Number	Description
SLCU6EV40A	6 Mod + 100A Switch + 40A MCB + RCCB Type A
SLCU6EV40A-SPD	6 Mod + 100A Switch + 40A MCB + RCCB Type A + SPD
SLCU6EV40B	6 Mod + 100A Switch + 40A MCB + RCCB Type B
SLCU6EV40B-SPD	6 Mod + 100A Switch + 40A MCB + RCCB Type B + SPD

Unit Dimensions

Part Number	W	W1	H	H1
SLCU6EV40A	161	111	235	165
SLCU6EV40A-SPD				
SLCU6EV40B				
SLCU6EV40B-SPD				

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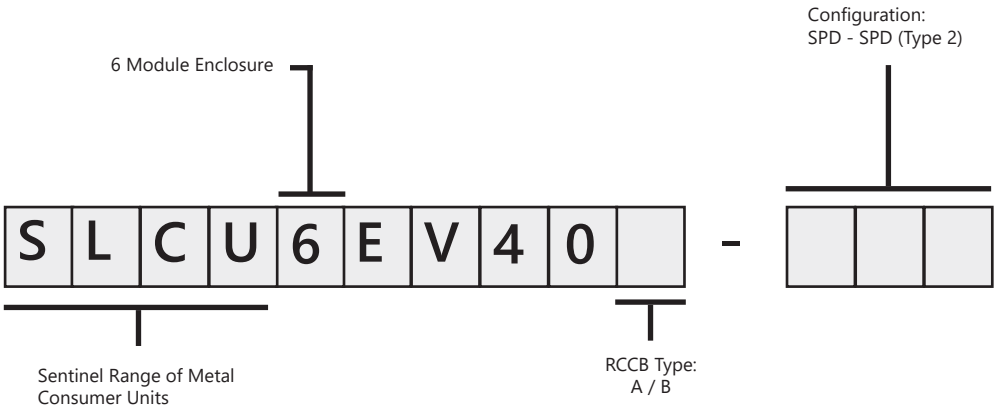
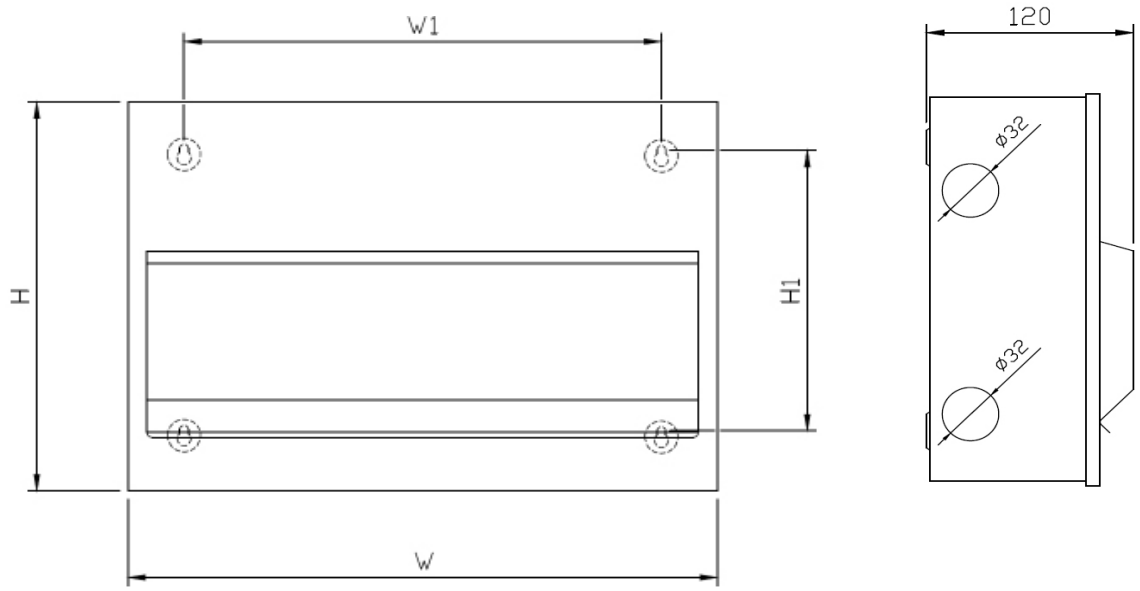
Part Number Breakdown





Notes:

Knockout placements are symmetrical between top and bottom / left and right sides.
Double-tier board has double the number of side knockouts.

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

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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

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 (mm2)	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

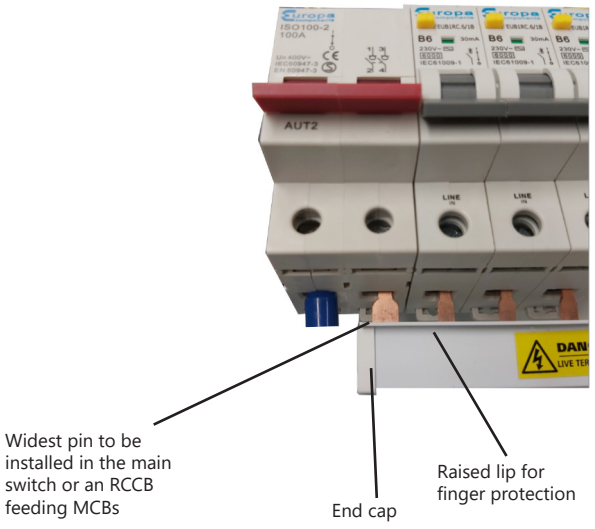
Fitting the Busbar

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.



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