

Consumer Unit Design Evo Dual Row Switch Disconnect Incomer with T2 SPD

For the distribution of power in a residential application, conforming to BS EN 61439-3 including Annex ZB (16kA rating).



VME11314

Design EVO S dual row is the enhanced board for use in applications where the consumer unit is located in a living area of the dwelling.

The board when fitted with RCBOs on outgoing circuits is designed to allow compliance with BS 7671:2022 regulations. 314.1&2 segregation of circuits to avoid danger and minimise inconvenience in the event of a fault, 522.6.202 protection of wiring concealed in walls or partitions.

Metal enclosure manufactured to allow compliance with BS 7671 regulation 421.1.201

Protection against transient over voltages, provided by factory fitted type 2 single module surge protection device.

Description	Size	Cat ref.
09+10 Way 100A Switch Disconnect Incomer Dual Row with T2 SPD	4 (2)	VME10910SPD
13+14 Way 100A Switch Disconnect Incomer Dual Row with T2 SPD	5 (2)	VME11314SPD
19+20 Way 100A Switch Disconnect Incomer Dual Row with T2 SPD	7 (2)	VME11920SPD

Devices	
Single Pole, Single Mod RCBO 6kA, 6A - 45A	ADN***
Single Pole, Single Mod Reduced Height RCBO 6kA, 6A - 32A	ADA3**G

Features & Benefits

- Cable clamp - Secures supply cables on entry to main incoming device preventing any movement being transmitted through meter tails to device
- Round cable entry points top, bottom and sides
- Rear Knockouts for ease of cable entry - Cable protector plate provided
- Rigid top wall - Enhances rigidity to prevent distortion when removing knockouts
- Locate and hold cover - allows use of both hands whilst fixing cover
- Front cover retained screws - Prevents loss during installation
- Key lock can be fitted as standard or temporary locking with a padlock, see accessories
- Full metal DIN rail - Secure and stable attachment of devices
- Quick release clip on MCB/RCBO - Allows removal of MCB/RCBO with busbar still in place
- Optimised cabling space - DIN rail position allows maximum cabling space
- Top mounted terminal rail makes the wiring of the neutral and earth connections neat and simple.
- Torque settings displayed inside front cover so they're easily accessible by the electrician.
- Type 2 Surge protection factory fitted

Technical Characteristics

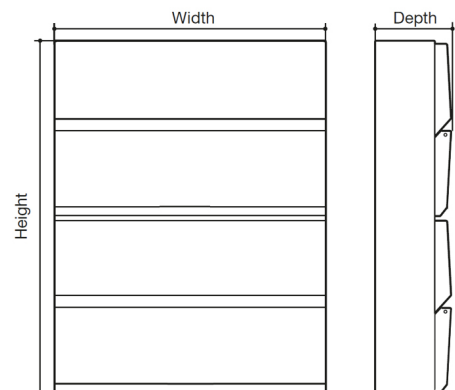
Standards BS	EN 61439-3
Classification	Consumer Unit
Rated & Operational Voltage (U_n/U_e)	230V a.c 50 Hz
Rated Insulation Voltage (U)	320V a.c. 50Hz
Rated Frequency (fn)	50 Hz
Rated impulse withstand voltage (U_{imp})	4kV
Rated Current of the Assembly (I_{na})	100A
Rated Current of an Outgoing Circuit I_{nc}	RCBO 6A-50A (Marked Rated Current on Device)
Rated Conditional Short Circuit of the Assembly (I_{cc})	Annex ZB: 16kA rms at 250V, power factor 0.6 with equipment and arrangements specified in Hage's technical documentation/catalogue
Protection against electric shock	Consumer Unit shall be installed in an electrical system conforming to IEC 60364 / BS 7671
Rated Diversity Factor (RDF) / Values of assumed loading	10 Way and above - 0.5
<p>Note: RDF only applies to continuously and simultaneously loaded circuits. In principle, this means adjacent circuit breakers having a load on time exceeding 30 minutes or where a load not exceeding 30 minutes has an 'off' time less than the 'on' time will need to have the rated diversity factor applied as indicated.</p>	
Pollution Degree	2
Types of System Earthing for which the assembly is designed	TNC-S and TN-S when installed in an electrical system conforming to BS 7671
Intended locations	Indoor use only
Stationary assembly	
Degree of protection	IP2XC with door open / closed and full compliment of devices / blanks fitted. Note: Where cables are installed through the top wall of the enclosure, gaps of IP4X to be maintained.
Intended use	Intended for use in domestic (residential) or similar premises
Electromagnetic compatibility (EMC) classification	EMC environment B
External design	Wall mounted, surface type, enclosed assembly.
Mechanical impact protection	IK05
Type of construction	Fixed parts
Incoming Line/Neutral terminal (80 - 100A board)	50mm ²
Incoming Line/Neutral terminal (63A board)	25mm ²
Incoming Earth Terminal	16mm ²
Warranty - Hager undertakes to replace or repair at its discretion products should they become inoperable within the time periods as stated - 2 Years	

Accessories

Health and safety lock and padlock	Provides the ability to lock the consumer unit during the installation process Padlock	VMHBL, JK25A
Design 30 door locking kit	Allows the board to be lockable	VMLOCK
Grommet strip	For protecting cables against damage when entering the board	VM05GS
Rear stand off plates	To stand consumer unit off wall allowing surface mounted cables to enter through rear of unit.	VM01SP

Dual Row Design S Dimensions (mm)

	Enclosure Size		
	4 (2)	5 (2)	7 (2)
Height	480	480	480
Width	293	364	472
Depth	102.5	102.5	102.5



- Suitable for CT2 connection as per 534.4.3.2 BS7671 18th Edition
- Optical status indication for cartridge replacement
Green = Healthy, Red = Replace
- Replacement cartridge reference : **SPL013Z**
- Pluggable surge protection module for ease of replacement
- Cartridge can be routinely checked and changed if required
- without interrupting supply to loads
- No secondary back-up protection required.



SPD P+N TN-C-S/TN-S/TT Uc 275V In 20kA I_{max}

40kA Technical Features

Number of modules	1
Dimensions	
Depth	74 mm
Height	84 mm
Width	17.5 mm
Electric current	
Max. discharge (I _{max}) L-N(PEN)/ N-PE	40 kA
Max. overcurrent protection device, parallel connection (fuse)	100 A
Equipment	
With remote signalling contact	No
Frequency	
Frequency	50 - 60 Hz
Installation, mounting	
Nominal tightening torque	1.2 - 2.5 Nm
Network configuration	
Network type	TN-C-S TN-S TT
Standards	
Requirement class IEC 61643	T2
Use conditions	
Operating temperature	-40 - 60 °C
Voltage	
Continuous operating voltage U _c according to IEC 61643-1	275 V
Rated operational voltage U _e	230 - 230 V
Voltage level U _p L-N/PEN IEC 61643-11	1.5 kV
Sustainability	
REACH conform	Yes
RoHS conform	Yes