:hager

Consumer Unit Design 30 RCCB Incomer

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

Design 30 is the enhanced board for use in applications where the consumer unit is located in a living area of the dwelling and allows compliance with BS 7671:2018;

Regulation 421.1.201 within domestic (household) applications consumer units and similar assemblies shall comply with BS EN 61439-3 and shall have their enclosure manufactured from a non-combustible material.

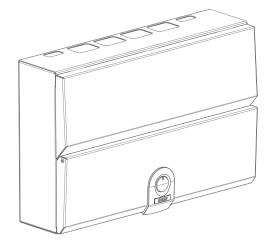
Regulation 411.3.3 additional protection by means of a 30mA RCD

Regulation 522.6.202 protection of wiring concealed in walls or partitions with RCD 30mA.

Regulation 531.3.3 Selection of appropriate RCD. Type A RCCBs can detect and respond to both AC and pulsating DC components.

RCCB incomer boards are generally used as sub distribution boards in residential applications where all outgoing circuits share the same 30mA RCD protection.







VM306AH

Description	Size	Cat ref.	Cat ref. with Knockouts
2 Way 40A 30mA Type A RCCB Incomer	2	VM402AH	VM402AHK
Con.unit,D30,6w,63A,30mA Type A RCCB	3	VM406AH	VM406AHK
Con.unit,D30,8w,63A,30mA, Type A RCCB	4	VM410AH	VM410AHK
Con.unit,D30,6w,100A,30mA type A RCCB	3	VM306AH	VM306AHK
10 Way 100A 30mA Type A RCCB Incomer	4	VM310AH	VM310AHK
14 Way 100A 30mA Type A RCCB Incomer	5	VM314AH	VM314AHK

Features & Benefits

- Type A RCCBs for general purpose circuits and circuits containing equipment incorporating electronic components.
- Cable clamp Secures supply cables on entry to main incoming device preventing any movement being transmitted through metertails to device.
- Square cable entry points top and bottom for use with cable trunking.
- Meter tail cable entry plate (VM04CE) provided
- Rear knockouts for ease of cable entry Cable protector plate (VM02CE) provided
- Rigid top wall Enhances rigidity to prevent distortion when removing knockouts.
- Front cover retained screws Prevents loss during installation
- Locate and hold cover allows use of both hands whilst fitting cover.

- Full metal din rail Secure and stable attachment of devices.
- Quick release clip on MCB/RCBO Allows fitting and removal of device with busbar in place.
- Optimised cabling space Din rail positioned to provide maximum space at top of board.
- Top mounted terminal rail makes the wiring of the neutral and earth connections neat and simple.
- Health and safety lock allows the door to be secured with circuits isolated during construction (via accessory see overleaf)
- Torque settings displayed inside front cover easily accessible to electrician during installation and maintenance.

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 (Uj)	320V a.c. 50Hz
Rated Frequency (fn)	50 Hz
Rated impulse withstand voltage (Uimp)	4kV
Rated Current of the Assembly (Ina)	40A/63A/100A
Rated Current of an Outgoing Circuit InC	MCB 6A-63A (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 Hager'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	2 Way to 3 Way - 0.8, 4 Way to 5 Way - 0.7, 6 Way to 9 Way - 0.6, 10 Way and above - 0.5
Note: RDF only applies to continuously and simultaneously loaded circu In principle, this means adjacent circuit breakers having a load on time e the 'on' time will need to have the rated diversity factor applied as indica	exceeding 30 minutes or where a load not exceeding 30 minutes has an 'off' time less than
Pollution Degree	2

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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

Cable protector plate	Provides protection for cables entering from the rear of the board	VM02CE
Top wall cable entry plates	Provide more options for cable entry, when used with 50x50mm trunking IP ratings can be achieved	VM03CE
Blind cable entry plates	A blank plate for drilling which allows the installation of cable glands etc	VM04CB, VM03CB
Health and safety lock	Provides the ability to lock the consumer unit during the installation process	VMHBL
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

Design 30 Dimensions (mm)

	Enclosure Size			
	2	3	4	5
Height	240	240	240	240
Width	149	221	293	364
Depth	102.5	102.5	102.5	102.5

		Number of Knockouts			
	*Top Face 30 x 25 (mm)	2	2	2	2
	*Top Face 40 x 30 (mm)	0	2	4	4
\bigcirc	Back 100 x 50 (mm)	1	1	1	3
	*Bottom Face 30 x 25 (mm)	2	3	4	4

 * References with a 'K' suffix feature top and bottom square knockouts.

