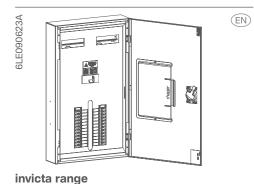
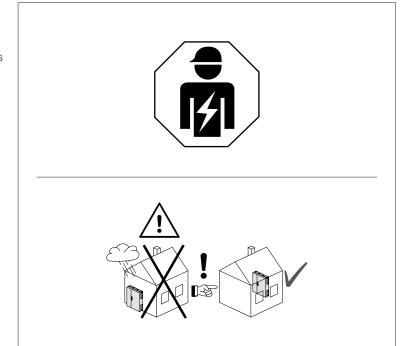
:hager



Mounting instructions



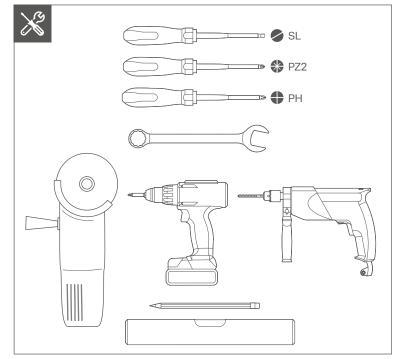
Safety instructions

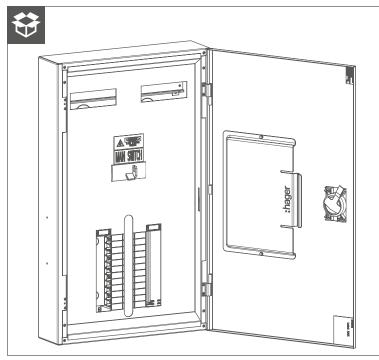


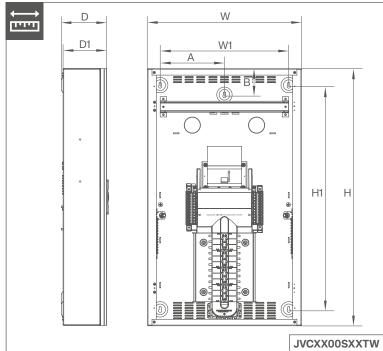
Installation, modification and disassembly of the product may only be carried out by an authorised electrician in accordance with the relevant installation standards and safety regulations of the country. The final installation is to meet all rules as described in AS/NZS 3000:2018.

These instructions are an integral part of the product and must be kept for the entire lifetime of the product.

Please read these instructions carefully before starting any work and before using the product.







Dimensions [mm] Market reference Description Н W D D1 W1 [1] H1 [2] Α В JVC2400S16TW 160A 24 pole 800 698 JVC2400S25TW 250A 24 pole JVC3600S16TW 160A 36 pole 900 798 JVC3600S25TW 250A 36 pole JVC4800S16TW 160A 48 pole 1000 898 200 75 JVC4800S25TW 250A 48 pole 480 141 136 400 JVC6000S16TW 160A 60 pole 1128 1026 JVC6000S25TW 250A 60 pole JVC7200S16TW 160A 72 pole 1235 1132 JVC7200S25TW 250A 72 pole Extension BOX JVC0EXTDW 350 250 N/A N/A

lorque Values for Connenctions	·
MCB/RCCB	2,8 Nm
Switches	3,6 Nm
Spreader links (M5)	5 Nm
Main Neutral / Earth (M8)	1013 Nm
Terminal Bar	2,5 Nm
Incomer JK161S	1518 Nm
Incomer JK250S	1518 Nm

Mounting

The electrical contractor must ensure that the support structure or wall is

All cables entering or exiting the switchboard are to be via a gland or sealed as required.

More an information under safety instructions, pls.add hereunder:

All panelboards have lockable doors suitable for restricted areas as per AS/NZS 61439.3:2016.

Installation of protection devices into the panelboard

adequate to support the weight of the panelboard.





Danger

Electric shock when live parts are touched!

An electric shock can lead to death!

• Isolate all connection cables before working on the device and cover any live parts in the area!

The electrical contractor is to ascertain

that all installed devices are suitable

to meet the appropriate fault current ratings required.

The chassis on this panelboard is suitable for Hager 6 kA and 10 kA type of MCBs and RCBOs and was designed to suit Hager MCBs only.

Hager recommends to use Hager approved switchgear only. Otherwise it may void warranty. If the fault level at the switchboard is higher than the

MCB fault rating, they must be backed

up by current limiting fuses or current

limiting circuit breakers. For backup

protection levels refer to Hager.

Devices are to be mounted with the DIN clip toward the centre of the enclosure. Transportation may cause terminations, mechanical supports and other connections to become loose. The electrical contractor has to ensure that all these connections are tightened prior to any energisation. No electrical equipment shall be put into use where its strength and capability may be exceeded in such a way as may give rise to danger.

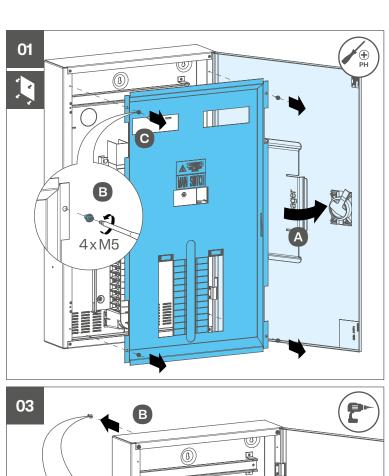
- ☑ The panelboard is surface-mounted on the wall.
- Drill hole for desired cable gland through the gland plate or remove the gland plate to get a big hole for trunking.
- 2 Drill all needed holes at the top/ bottom or rear side for all outgoing cables.
- 3 Mount all needed MCB and RCBO's right and left at the busbar phases.
- 4 Wire the MCB and RCBO's to the installation outside the panelboard.
- 6 Connect the RCBO's neutral cable on the right and left terminal bar.
- 6 Connect the other neutral cables on the right and left terminal bar.
- Connect the earthing cables on the right and left terminal bar.
- 8 Remove the cover on top of the busbar.
- 9 Connect incomer neutral cables on right or left terminal
- Onnect L1, L2, L3 terminals of the main switch with incomer cables.

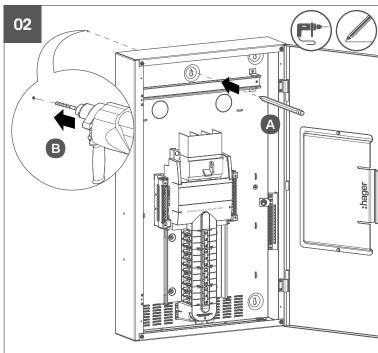
Before first operation

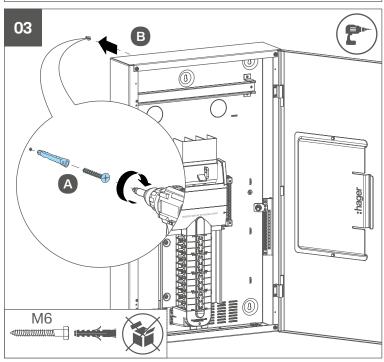
- Check the arrangement and alignment of all devices and ensure that all devices are undamaged and all connections are firmly tightened before the system is put into operation.
- After completing the installation, clean the panelboard and remove filings, material residues and other foreign objects.

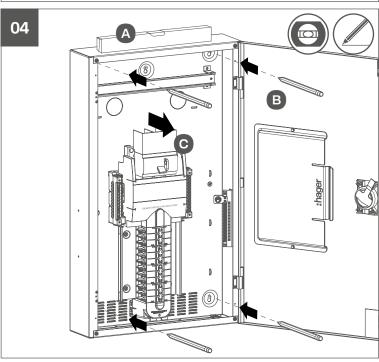
^[1] Horizontal distance of fixing hole

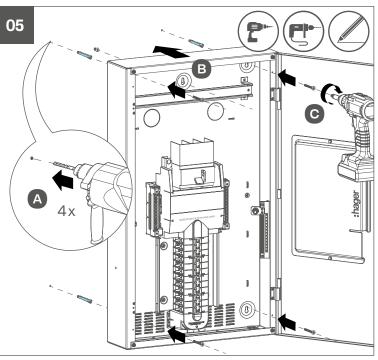
^[2] Vertical distance of fixing hole

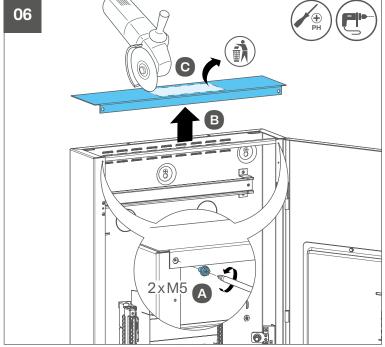


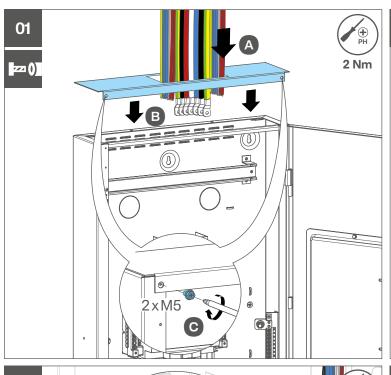


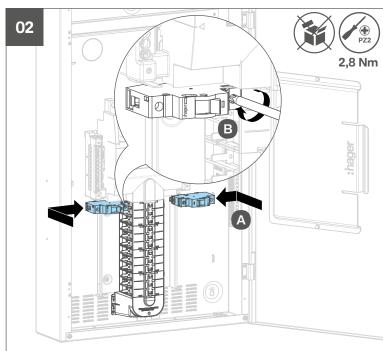


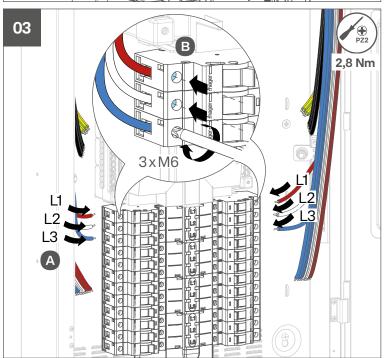


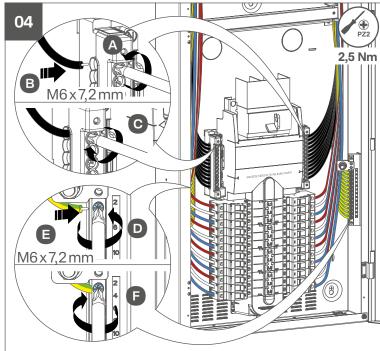


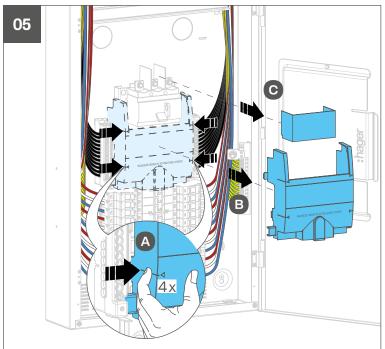


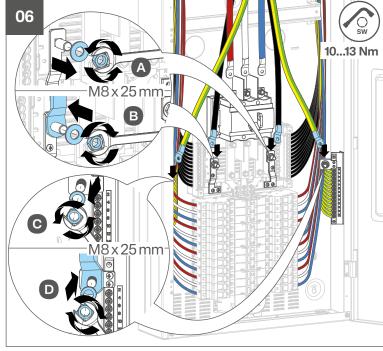


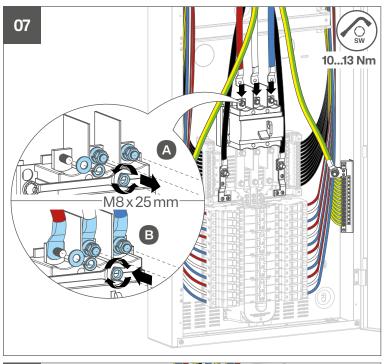


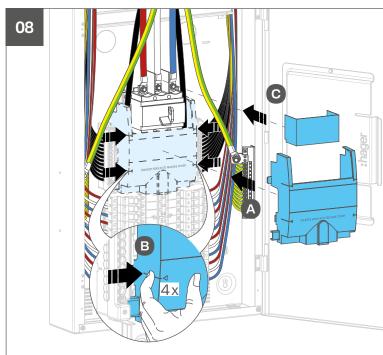


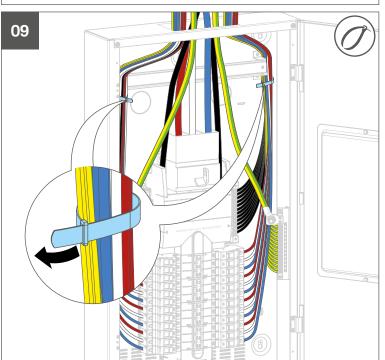


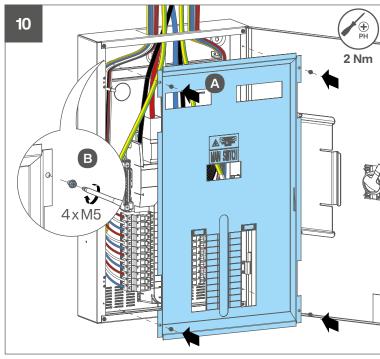


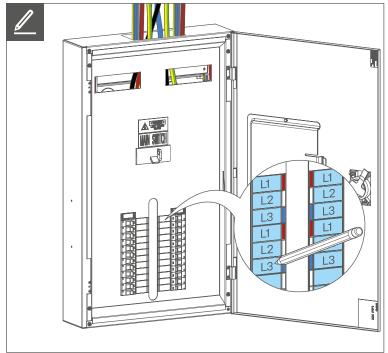


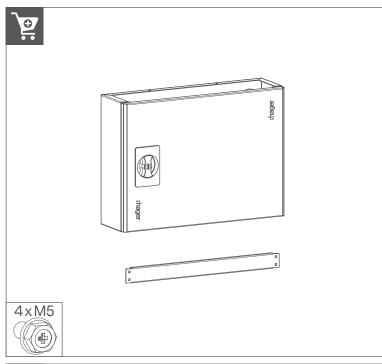


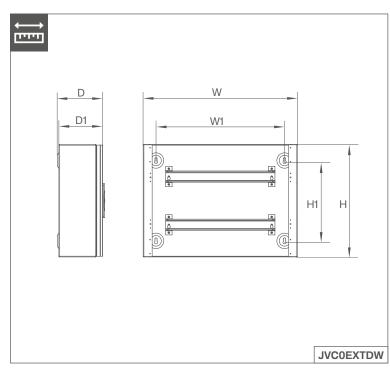


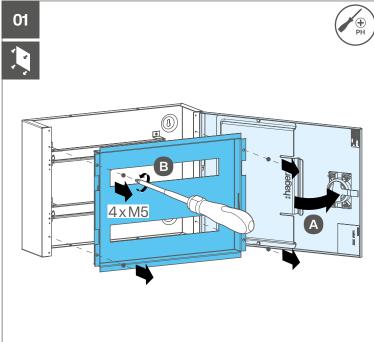


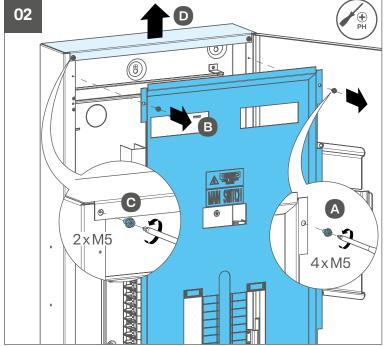


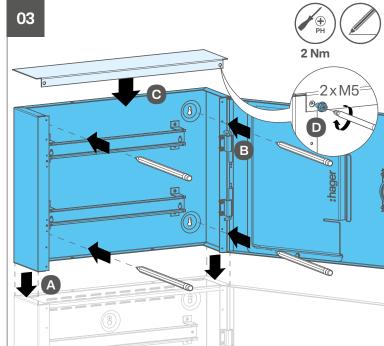


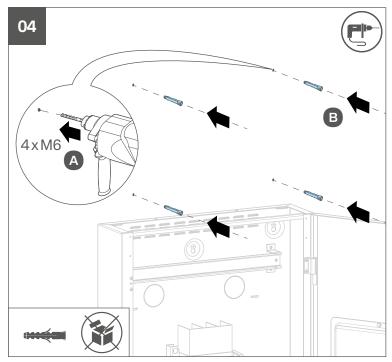


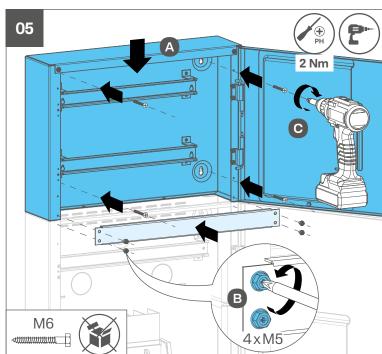


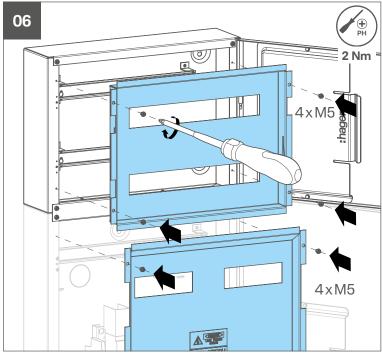














Current rating	160 A					250 A				
MCB poles	24	36	48	60	72	24	36	48	60	72
rating (Door closed)	IP3x									
Material Page 1	1.2 mm g	galvanised st	eel							
Main incomers										
No switch fitted	Not an or	otion								
60 A hager switch	Υ	Υ	Υ	Υ	Υ					
250 A hager switch		<u>.</u>		<u>.</u>	· · · · · · · · · · · · · · · · · · ·	Υ	Υ	Υ	Υ	Υ
Electrical details						•	· ·	<u>'</u>	·	· · · · · · · · · · · · · · · · · · ·
Switchgear mounting	Rear stud									
0 0		zs 61439.3:2	2016							
Type testing			2010	<u> </u>						
Rated voltage (U _n)	415 V AC									
Rated insulation voltage (U _i)	690 V AC									
Rated operational voltage (U _e)(fn)	415 V AC	, 50 Hz								
Rated impulse voltage (U _{imp})	4 kV									
Rated current of the assembly (I_{nA})	160 A					250 A				
	MCB 6 k	A C-curve: 6	63 A (rat	ted current c	n device)					
	MCB 10 I	A C-curve: 2	263 A (ra	ated current	on device)					
	MCB 6 k	A "D" curve:	6 A63 A	(rated curre	nt on device)				
				A (rated curr						
				6 A45 A (ra		,				
Rated current of an outgoing circuit				A32 A (rat						
I _{nc})				6 A32 A (rat		,				
				•		ed current on	dovice)			
					•	ed current on	,			
					•	ed current or	,			
	RCBO 3M 3P+N 10 kA "D" curve 30 mA: 10 A63 A (rated current on device)									
Rated short-circuit withstand current	20 kA/ 0	.2 s, 40 kA p	eak							
of the assembly (I _{cw})					:t:l					
Rated conditional short-circuit current of the assembly (Icc)				ingements s tion/ catalog						
of the assembly (Icc)				illori/ Gatalog	ue					
Rated diversity factor (RDF) /Values of	18 pole - 24 pole = 0.6									
accumed leading	36 pole and above = 0.5 RDF Note: RDF only applies to continuously and simultaneously loaded circuits									
assumed loading	Notes DD	مناهمه براهم	a to contin	arrarrah rand	sina. Iltanaan.	alı i laadad air				
	Note: RD	F only applie	s to contir	nuously and	simultaneous	sly loaded cir	cuits			
assumed loading Types of system earthing for which the						sly loaded cir em conformin		ZS3000		
Types of system earthing for which the assembly is designed	TNC-S, T	N-S and TT						ZS3000		
Types of system earthing for which the assembly is designed Electromagnetic compatability (EMC)	TNC-S, T							ZS3000		
Types of system earthing for which the assembly is designed Electromagnetic compatability (EMC) classification	TNC-S, T	N-S and TT	when insta	alled in an el	ectrical syste	em conformin	g to AS/ NZ	ZS3000		
Types of system earthing for which the assembly is designed Electromagnetic compatability (EMC) classification Protection against electric shock	TNC-S, T	N-S and TT	when insta	alled in an el	ectrical syste		g to AS/ NZ	ZS3000		
Types of system earthing for which the assembly is designed Electromagnetic compatability (EMC) classification Protection against electric shock	TNC-S, T EMC env DBO sha	N-S and TT ironment B	when insta	alled in an el	ectrical syste	em conformin	g to AS/ NZ	Z\$3000		
Types of system earthing for which the assembly is designed Electromagnetic compatability (EMC) classification Protection against electric shock Door	TNC-S, T EMC env DBO sha Yes (CLO	N-S and TT ironment B	when insta	alled in an el	ectrical syste	em conformin	g to AS/ NZ	Z\$3000		
Types of system earthing for which the assembly is designed Electromagnetic compatability (EMC) classification Protection against electric shock Coor Key lockable Circuit schedule card	TNC-S, T EMC env DBO sha	N-S and TT ironment B	when insta	alled in an el	ectrical syste	em conformin	g to AS/ NZ	Z\$3000		
Types of system earthing for which the assembly is designed Electromagnetic compatability (EMC) classification Protection against electric shock Door Key lockable Circuit schedule card N terminals	TNC-S, T EMC env DBO sha Yes (CLO Yes	N-S and TT ironment B II be installed	when insta	alled in an el	ectrical syste	em conforming to AS/ NZS:	g to AS/ N2			
Types of system earthing for which the assembly is designed Electromagnetic compatability (EMC) classification Protection against electric shock Door Key lockable Circuit schedule card V terminals Funnel terminal	TNC-S, T EMC env DBO sha Yes (CLO Yes	N-S and TT ironment B II be installed	when insta	alled in an el	ectrical syste	em conforming to AS/ NZS:	g to AS/ NZ 3000 strands ber			
Types of system earthing for which the assembly is designed Electromagnetic compatability (EMC) classification Protection against electric shock Door Key lockable Circuit schedule card V terminals Funnel terminal	TNC-S, T EMC env DBO sha Yes (CLO Yes Ø = 7.2 m 1.5 mm²	N-S and TT ironment B II be installed	when insta	alled in an el	ectrical syste	g to AS/ NZS: (Copper (unprepa	g to AS/ NZ 3000 strands ber	nded firmly)		
Types of system earthing for which the assembly is designed Electromagnetic compatability (EMC) classification Protection against electric shock Door Key lockable Circuit schedule card N terminals Funnel terminal Solid conductors	TNC-S, T EMC env DBO sha Yes (CLO Yes Ø = 7.2 m 1.5 mm ² 2.5 25	ironment B II be installed	when insta	alled in an el	ectrical syste	g to AS/ NZS: (Copper (unprepa	g to AS/ NZ 3000 strands ber red) strands mu	nded firmly) st be firmly t		ether
Types of system earthing for which the assembly is designed Electromagnetic compatability (EMC) classification Protection against electric shock Door Key lockable Circuit schedule card N terminals Funnel terminal Solid conductors	TNC-S, T EMC env DBO sha Yes (CLO Yes Ø = 7.2 m 1.5 mm²	ironment B II be installed	when insta	alled in an el	ectrical syste	(Copper (unprepar (using a factor))	g to AS/ NZ 3000 strands ber red) strands mu tool i.e.pliers	nded firmly) st be firmly t s, then firmly	/ bended)	
Types of system earthing for which the assembly is designed Electromagnetic compatability (EMC) classification Protection against electric shock Door Key lockable Circuit schedule card N terminals Funnel terminal Solid conductors	TNC-S, T EMC env DBO sha Yes (CLO Yes Ø = 7.2 m 1.5 mm² 2.5 25 1.5 2.5	ironment B II be installed	when insta	alled in an el	ectrical syste	(Copper (using a (Copper (Copper (Using a (Copper (Copper (Using a (Copper (Copper (Using a (Using	g to AS/ NZ 3000 strands ber red) strands mu tool i.e.plien strands mu	nded firmly) st be firmly t s, then firmly st be firmly t	/ bended) wisted toge	ether
Types of system earthing for which the assembly is designed Electromagnetic compatability (EMC) classification Protection against electric shock Door Key lockable Circuit schedule card N terminals Funnel terminal Solid conductors	TNC-S, T EMC env DBO sha Yes (CLO Yes Ø = 7.2 m 1.5 mm ² 2.5 25	ironment B II be installed	when insta	alled in an el	ectrical syste	(Copper (using a (Copper (Copper (Using a (Copper (Copper (Using a (Copper (Copper (Using a (Using	g to AS/ NZ 3000 strands ber red) strands mu tool i.e.plien strands mu	nded firmly) st be firmly t s, then firmly	/ bended) wisted toge	ether
Types of system earthing for which the assembly is designed Electromagnetic compatability (EMC) classification Protection against electric shock Door Key lockable Circuit schedule card N terminals Funnel terminal Solid conductors	TNC-S, T EMC env DBO sha Yes (CLO Yes Ø = 7.2 m 1.5 mm² 2.5 25 1.5 2.5	ironment B II be installed	when insta	alled in an el	ectrical syste	(Copper (unprepa (Copper (using a (Copper (Cop	g to AS/ NZ 3000 strands ber red) strands mu tool i.e.plien strands mu	nded firmly) st be firmly t s, then firmly st be firmly t st be firmly t	/ bended) wisted toge	ether
Types of system earthing for which the assembly is designed Electromagnetic compatability (EMC) classification Protection against electric shock Door Key lockable Circuit schedule card N terminals Funnel terminal Solid conductors	TNC-S, T EMC env DBO sha Yes (CLO Yes Ø = 7.2 m 1.5 mm² 2.5 25 1.5 2.5	ironment B II be installed O1) mm mm² mm² mm²	when insta	alled in an el	ectrical syste	(Copper (unprepa (Copper (using a (Copper (Cop	strands ber red) strands mu strands mu strands mu strands mu strands mu tool i.e.plier	nded firmly) st be firmly t s, then firmly st be firmly t st be firmly t	/ bended) wisted toge	ether
Types of system earthing for which the assembly is designed Electromagnetic compatability (EMC) classification Protection against electric shock Door Key lockable Circuit schedule card N terminals Tunnel terminal Solid conductors Stranded conductors	TNC-S, T EMC env DBO sha Yes (CL0 Yes Ø = 7.2 m 1.5 mm² 2.5 25 1.5 2.5	ironment B II be installed O1) mm mm² mm² mm² mm²	when insta	alled in an el	ectrical syste	(Copper (using a (Copper (using a (unprepa	strands ber red) strands mu strands mu strands mu strands mu strands mu tool i.e.plier	nded firmly) st be firmly t s, then firmly t st be firmly t st be firmly t	/ bended) wisted toge	ether
Types of system earthing for which the issembly is designed Electromagnetic compatability (EMC) classification Protection against electric shock Door Key lockable Circuit schedule card N terminals Tunnel terminal Solid conductors Stranded conductors	TNC-S, T EMC env DBO sha Yes (CLO Yes Ø = 7.2 m 1.5 mm ² 2.5 25 1.5 2.5 4 6 mr	ironment B II be installed O1) mm mm² mm² mm² mm²	when insta	alled in an el	ectrical syste	(Copper (using a (Copper (using a (unprepa	strands ber red) strands mu tool i.e.plier strands mu tool i.e.plier red)	nded firmly) st be firmly t s, then firmly t st be firmly t st be firmly t	/ bended) wisted toge	ether
Types of system earthing for which the assembly is designed Electromagnetic compatability (EMC) classification Protection against electric shock Door Key lockable Circuit schedule card N terminals Funnel terminal Solid conductors Stranded conductors Flexible conductors Enclosure details	TNC-S, T EMC env DBO sha Yes (CLO Yes Ø = 7.2 m 1.5 mm ² 2.5 25 1.5 2.5 4 6 mr	ironment B II be installed O1) mm mm² mm² mm² mm²	when insta	alled in an el	ectrical syste	(Copper (using a (Copper (using a (unprepa	strands ber red) strands mu tool i.e.plier strands mu tool i.e.plier red)	nded firmly) st be firmly t s, then firmly t st be firmly t st be firmly t	/ bended) wisted toge	ether
Types of system earthing for which the issembly is designed Electromagnetic compatability (EMC) classification Protection against electric shock Door Key lockable Circuit schedule card N terminals Tunnel terminal Solid conductors Stranded conductors Flexible conductors Enclosure details Height (mm)	TNC-S, T EMC env DBO sha Yes (CLO Yes Ø = 7.2 m 1.5 mm ² 2.5 25 1.5 2.5 4 6 mm 10 25 m 2.5 16	ironment B II be installed O1) mm mm² mm² mm² mm² mm²	when insta	alled in an el	ectrical system	(Copper (unprepa (Copper (Using a (Unprepa (Using a (Unprepa (Using a (Unprepa (Using a (Unprepa (Bootlace)	strands ber red) strands mu tool i.e.pliers strands mu strands mu tool i.e.pliers red) e ferrules to	nded firmly) st be firmly t s, then firmly t st be firmly t st be firmly t st be used)	/ bended) wisted toge wisted toge	ether ether
Types of system earthing for which the assembly is designed Electromagnetic compatability (EMC) classification Protection against electric shock Door Key lockable Circuit schedule card N terminals Funnel terminal Solid conductors Stranded conductors Flexible conductors Enclosure details Height (mm) Width (mm)	TNC-S, T EMC env DBO sha Yes (CLO Yes Ø = 7.2 m 1.5 mm ² 2.5 25 1.5 2.5 4 6 mr 10 25 m 2.5 16	ironment B II be installed O1) mm mm² mm² mm² mm² mm²	when insta	alled in an el	ectrical system	(Copper (unprepa (Copper (Using a (Unprepa (Using a (Unprepa (Using a (Unprepa (Using a (Unprepa (Bootlace)	strands ber red) strands mu tool i.e.pliers strands mu strands mu tool i.e.pliers red) e ferrules to	nded firmly) st be firmly t s, then firmly t st be firmly t st be firmly t st be used)	/ bended) wisted toge wisted toge	ether ether
Types of system earthing for which the assembly is designed Electromagnetic compatability (EMC) classification Protection against electric shock Door Key lockable Circuit schedule card N terminals Funnel terminal Solid conductors Stranded conductors Flexible conductors Enclosure details Height (mm) Width (mm) Depth (mm)	TNC-S, T EMC env DBO sha Yes (CLO Yes Ø = 7.2 m 1.5 mm ² 2.5 25 1.5 2.5 4 6 mr 10 25 m 2.5 16 800 480 135	ironment B II be installed O1) mm mm² mm² mm² mm² mm²	when insta	alled in an el	ectrical system	(Copper (unprepa (Copper (Using a (Unprepa (Using a (Unprepa (Using a (Unprepa (Using a (Unprepa (Bootlace)	strands ber red) strands mu tool i.e.pliers strands mu strands mu tool i.e.pliers red) e ferrules to	nded firmly) st be firmly t s, then firmly t st be firmly t st be firmly t st be used)	/ bended) wisted toge wisted toge	ether ether
Types of system earthing for which the assembly is designed Electromagnetic compatability (EMC) classification Protection against electric shock Door Key lockable Circuit schedule card N terminals Funnel terminal Solid conductors Stranded conductors Elexible conductors Enclosure details Height (mm) Width (mm) Depth (mm) Spare DIN rail space (poles)	TNC-S, T EMC env DBO sha Yes (CLO Yes Ø = 7.2 m 1.5 mm ² 2.5 25 1.5 2.5 4 6 mr 10 25 r 2.5 16 800 480 135 16	ironment B II be installed O1) mm mm² mm² mm² mm² 900	when insta	alled in an el	ectrical system	(Copper (unprepa (Copper (Using a (Unprepa (Using a (Unprepa (Using a (Unprepa (Using a (Unprepa (Bootlace)	strands ber red) strands mu tool i.e.pliers strands mu strands mu tool i.e.pliers red) e ferrules to	nded firmly) st be firmly t s, then firmly t st be firmly t st be firmly t st be used)	/ bended) wisted toge wisted toge	ether ether
Types of system earthing for which the assembly is designed Electromagnetic compatability (EMC) classification Protection against electric shock Door Key lockable Circuit schedule card N terminals Funnel terminal Solid conductors Stranded conductors Elexible conductors Enclosure details Height (mm) Doepth (mm) Spare DIN rail space (poles) Gland plates	TNC-S, T EMC env DBO sha Yes (CLO Yes Ø = 7.2 m 1.5 mm² 2.5 25 1.5 2.5 4 6 mr 10 25 r 2.5 16 800 480 135 16 Galvanise	ironment B II be installed O1) mm mm² mm² mm² mm² 900	when insta	alled in an el	ectrical system	(Copper (unprepa (Copper (Using a (Unprepa (Using a (Unprepa (Using a (Unprepa (Using a (Unprepa (Bootlace)	strands ber red) strands mu tool i.e.pliers strands mu strands mu tool i.e.pliers red) e ferrules to	nded firmly) st be firmly t s, then firmly t st be firmly t st be firmly t st be used)	/ bended) wisted toge wisted toge	ether ether
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Types of system earthing for which the assembly is designed Electromagnetic compatability (EMC) classification Protection against electric shock Door Key lockable Circuit schedule card N terminals Funnel terminal Solid conductors Stranded conductors Enclosure details Height (mm) Width (mm) Depth (mm) Spare DIN rail space (poles) Gland plates Colour External design Mechanical impact protection	TNC-S, T EMC env DBO sha Yes (CLO Yes Ø = 7.2 m 1.5 mm² 2.5 25 1.5 2.5 4 6 mr 10 25 r 2.5 16 800 480 135 16 Galvanise RAL7035 Wall-mou	ironment B II be installed O1) mm mm² mm² mm² mm² 900 ed steel (light grey)	when insta	alled in an el	n conforming	(Copper (unprepa (Copper (Using a (Unprepa (Using a (Unprepa (Using a (Unprepa (Using a (Unprepa (Bootlace)	strands ber red) strands mu tool i.e.pliers strands mu strands mu tool i.e.pliers red) e ferrules to	nded firmly) st be firmly t s, then firmly t st be firmly t st be firmly t st be used)	/ bended) wisted toge wisted toge	ether ether
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^[1] Current limitation characteristics specified in Hager's technical documentation/ catalogue.

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