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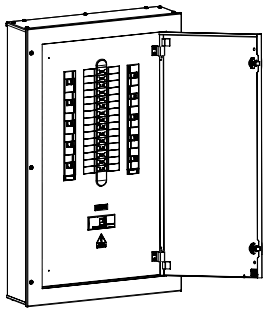
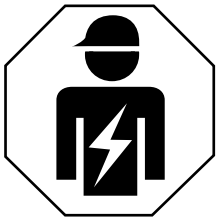
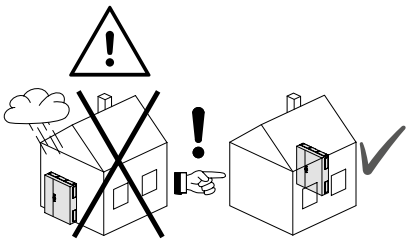


(EN) Mounting instructions

Panelboard



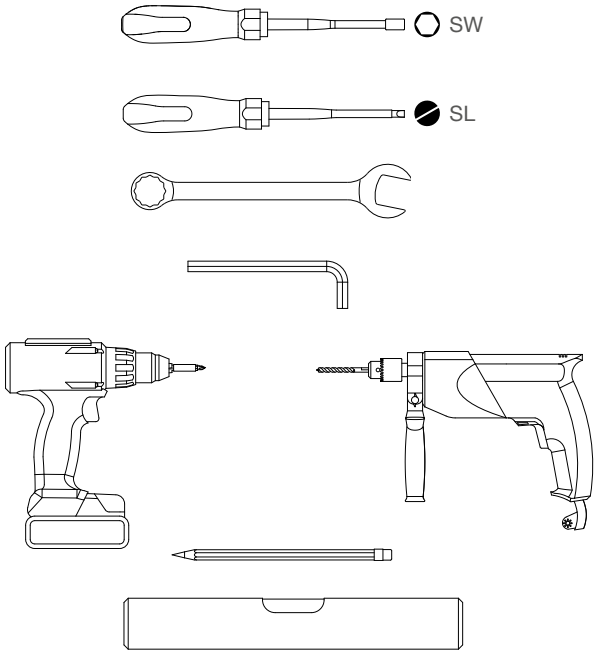


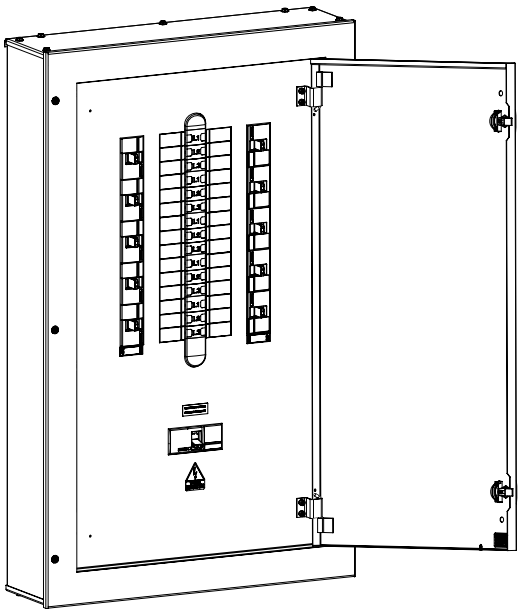
Safety instructions

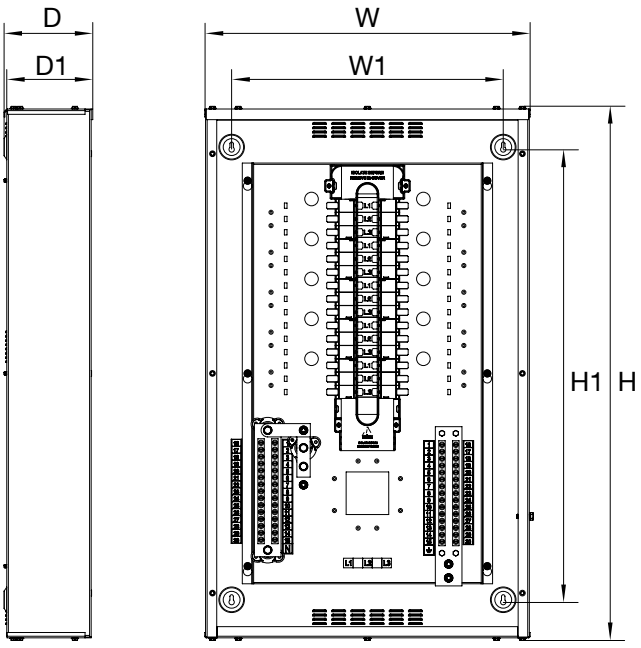
Installation, modification and disassembly of the product may only be carried out by an authorised electrician in accordance with the relevant installation standards and safety regulations of the country. The final installation must fulfil all the requirements of the latest Edition of IEE wiring and BS EN IEC 61439-2.

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.







JNxB0xxxxSx

Dimensions [mm]

Market reference	H	W	D	D1	W1 [1]	H1 [2]
Panelboards 250 A						
JN2B00002Sx	700	615	160	165	510	550
JN2B00004Sx	775	615	160	165	510	625
JN2B00006Sx	855	615	160	165	510	700
JN2B00008Sx	925	615	160	165	510	775
JN2B00010Sx	1000	615	160	165	510	850
JN2B00012Sx	1115	615	160	165	510	965
JN2B00016Sx	1375	615	160	165	510	1225
Panelboards 400 A						
JN4B00004Sx	930	690	200	205	560	709
JN4B00006Sx	1005	690	200	205	560	784
JN4B00008Sx	1080	690	200	205	560	859
JN4B00010Sx	1155	690	200	205	560	934
JN4B00012Sx	1230	690	200	205	560	1009
JN4B00016Sx	1380	690	200	205	560	1159
JN4B00202Sx	960	846	200	205	716	739
JN4B00204Sx	1035	846	200	205	716	814
JN4B00206Sx	1110	846	200	205	716	889
JN4B00208Sx	1185	846	200	205	716	964
JN4B00210Sx	1260	846	200	205	716	1039
JN4B00214Sx	1410	846	200	205	716	1189

[1] Horizontal distance of fixing hole
[2] Vertical distance of fixing hole

Dimensions [mm]

Market reference	H	W	D	D1	W1 [1]	H1 [2]
Panelboards 800 A						
JN8B00004Sx	1035	846	200	205	700	858
JN8B00006Sx	1110	846	200	205	700	933
JN8B00008Sx	1215	846	200	205	700	1038
JN8B00010Sx	1320	846	200	205	700	1143
JN8B00012Sx	1410	846	200	205	700	1233
JN8B00016Sx	1620	846	200	205	700	1443
JN8B00400Sx	1095	846	200	205	700	918
JN8B00600Sx	1200	846	200	205	700	1023
JN8B00800Sx	1305	846	200	205	700	1128
JN8B01000Sx	1410	846	200	205	700	1233
JN8B01200Sx	1515	846	200	205	700	1338
JN8B01600Sx	1725	846	200	205	700	1548
JN8B00202Sx	1065	846	200	205	700	888
JN8B00204Sx	1140	846	200	205	700	963
JN8B00206Sx	1215	846	200	205	700	1038
JN8B00208Sx	1320	846	200	205	700	1143
JN8B00210Sx	1410	846	200	205	700	1233
JN8B00214Sx	1560	846	200	205	700	1383
JN8B00402Sx	1170	846	200	205	700	993
JN8B00404Sx	1245	846	200	205	700	1068
JN8B00406Sx	1350	846	200	205	700	1173
JN8B00408Sx	1440	846	200	205	700	1263
JN8B00410Sx	1650	846	200	205	700	1473
JN8B00606Sx	1485	846	200	205	700	1308
JN8B00608Sx	1620	846	200	205	700	1443

Mounting

The installation location must be selected so that the load-bearing capacity of wall is suitable for the weight of the panelboard including all to built-in devices and cables.

All cables must be routed via screwable cable entries on the panelboard or otherwise sealed.

Installation of protection devices into 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 electrician must ensure that all installed devices are suitable and fulfil the required design load current values.

This panelboard has been developed for the installation of Hager Main Switches and MCCBs. It is therefore recommended that only equipment and arrangements specified in Hager's technical documentation/ catalogue shall be used, otherwise the warranty may be void.

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.

1. Drill holes at the bottom for 5 incoming cables 3L + N + PE.
2. Drill all needed holes at the top/ bottom or rear side for all outgoing cables.
3. Remove the cover at the bottom of the busbar and
4. Place the main switch over the hole, fix it with 4 screws and connect the switch at the busbar.
5. Remove the busbar shroud and mount all needed MCCBs right and left at the busbar with screws.
6. Wire the MCCBs to the installation outside the panelboard.
7. Connect earthing cable on the right terminals.
8. Connect the neutral cable on the left terminal bar.
9. Connect L1, L2, L3 terminals of the main switch with incoming cables.

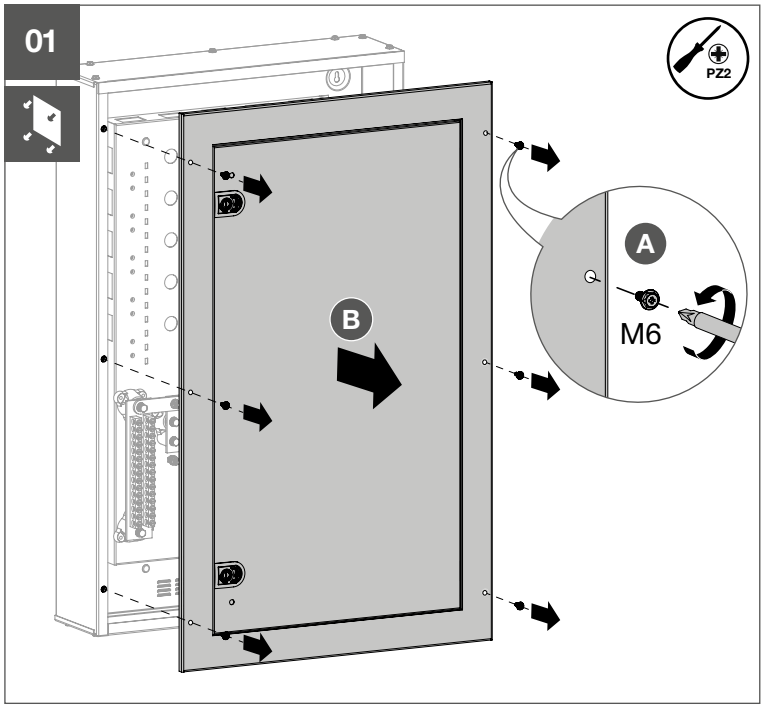
Before first operation

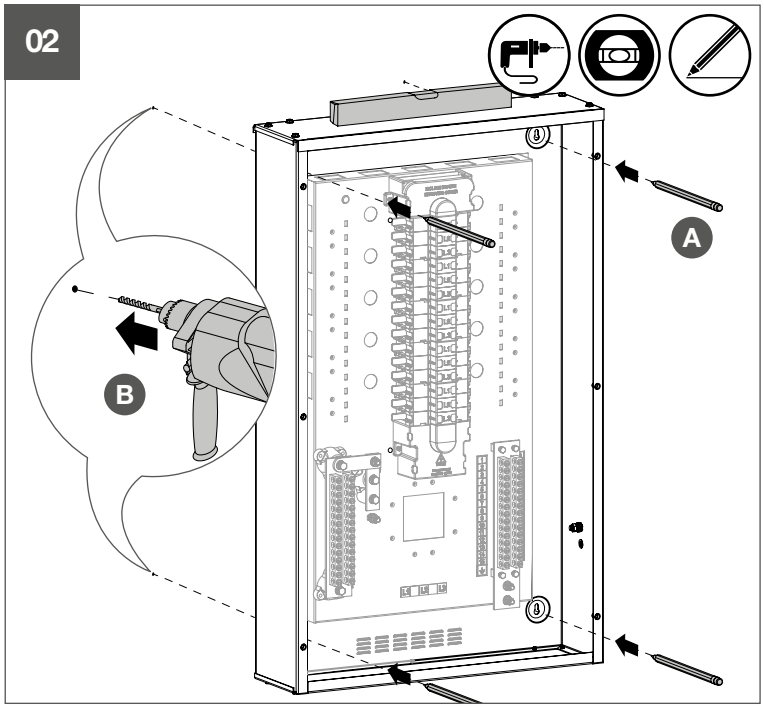
- Check the arrangement and alignment of all devices and ensure that all devices are undamaged and all connections are firmly tightened before the system is put into operation.
- After completing the installation, clean the panelboard and remove filings, material residues and other foreign objects.

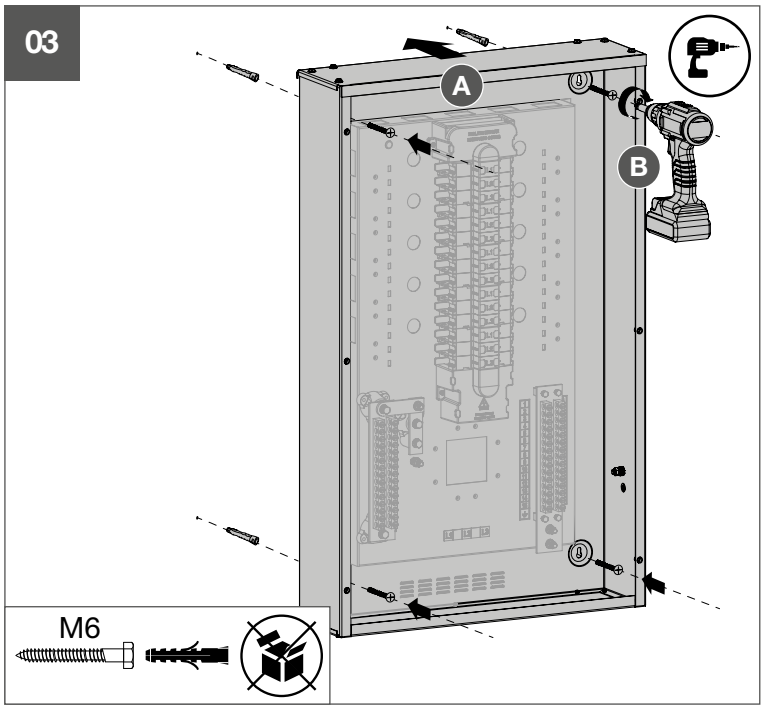
Options to lock the door

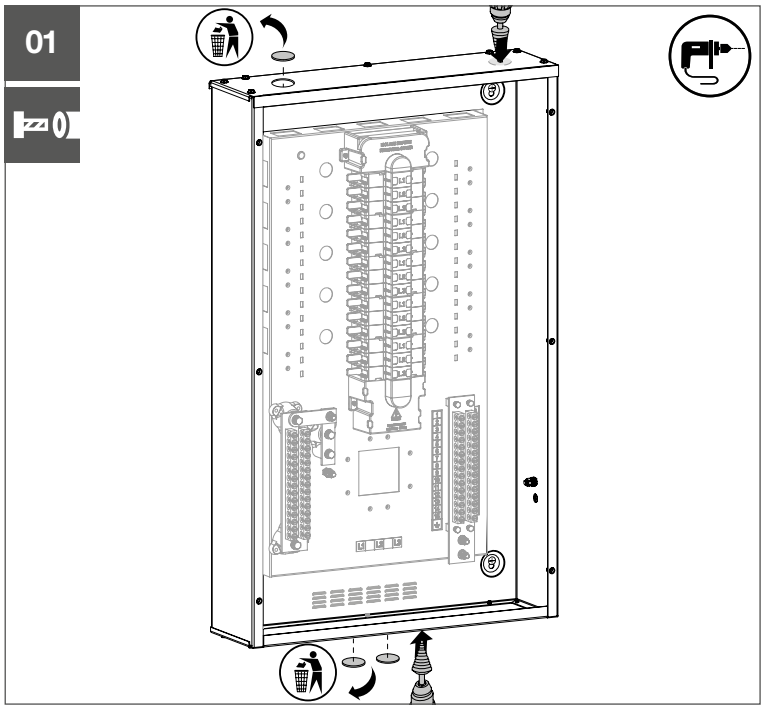
Near by the coin locks the rubber seal can be removed for inserting screws to tighten the door at the panel board´s cover, so that no tool-less access is possible.

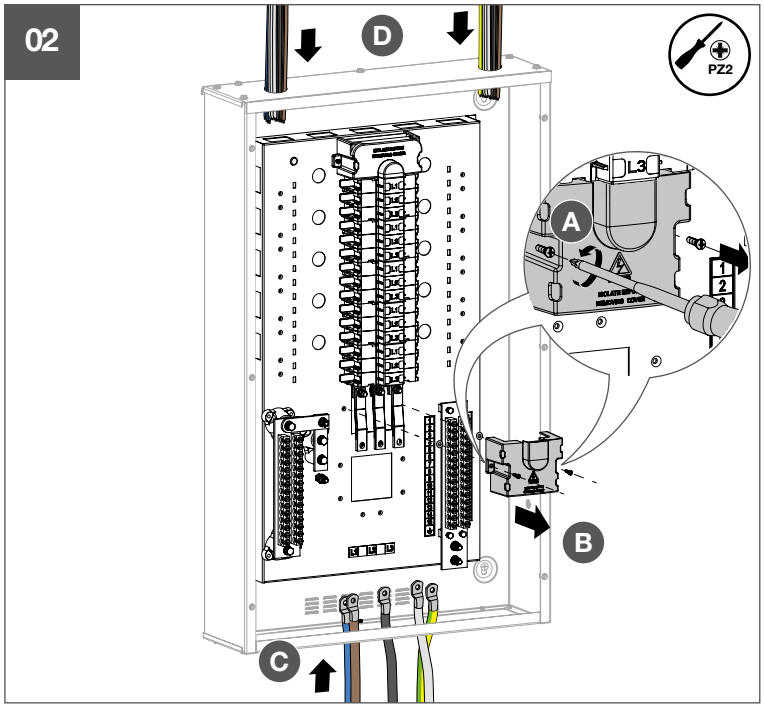
One of the coin locks can be changed to a key lock as an accessory, so that all panelboards are suitable for restricted access.

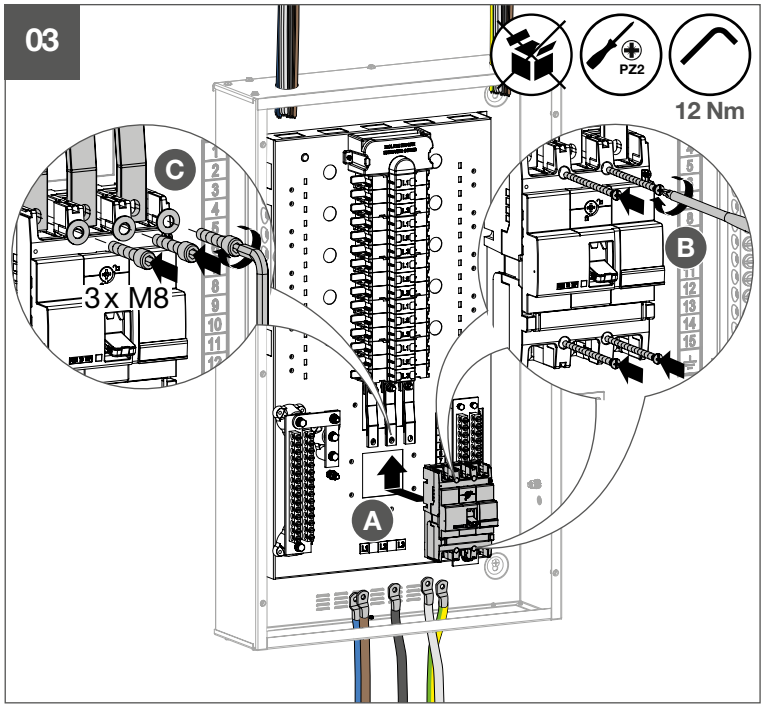

01
PZ2
A
M6
B

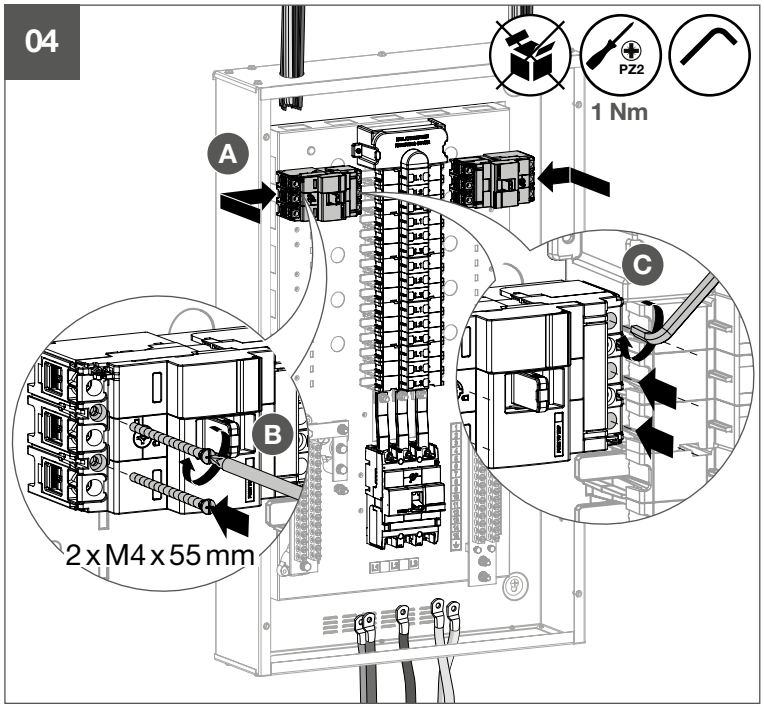

02
A
B

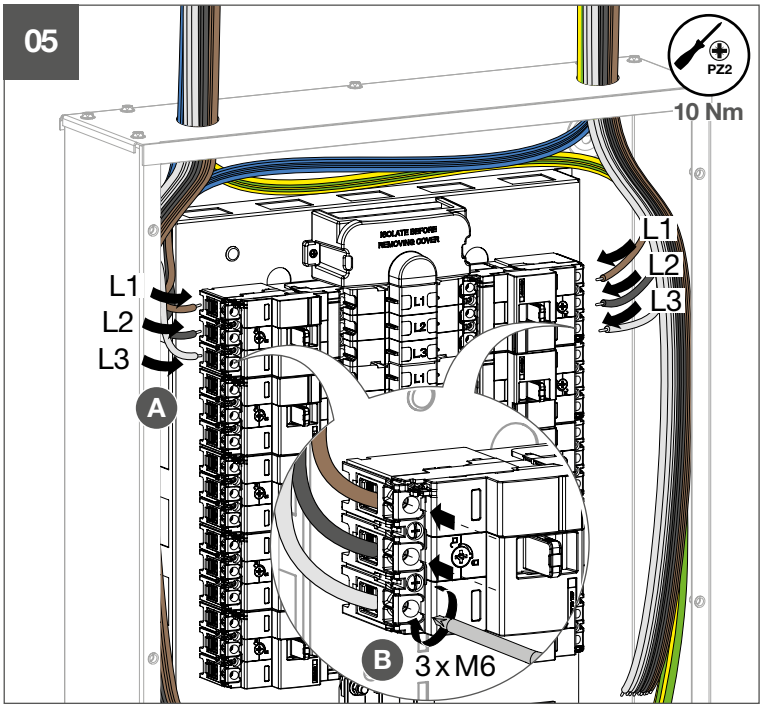

03
A
B
M6

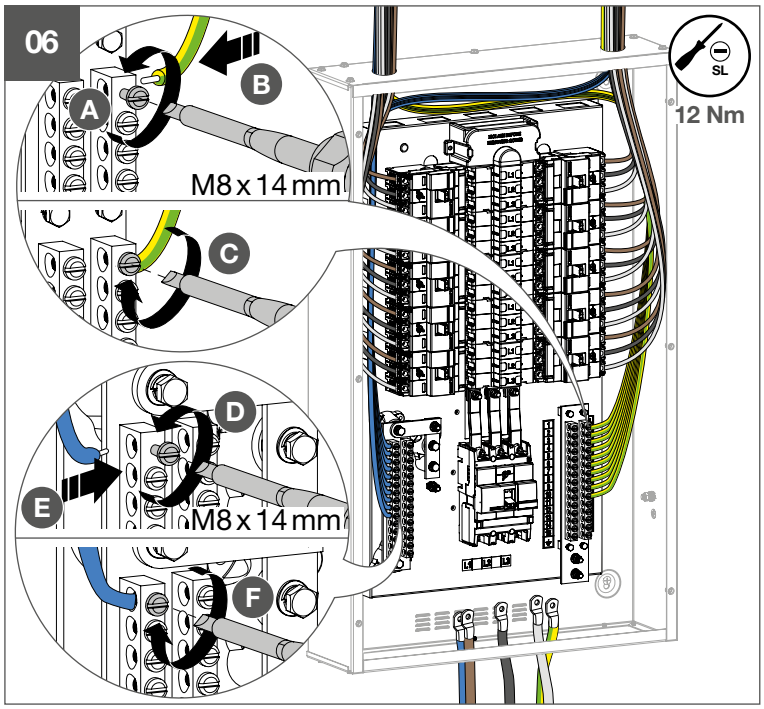

01

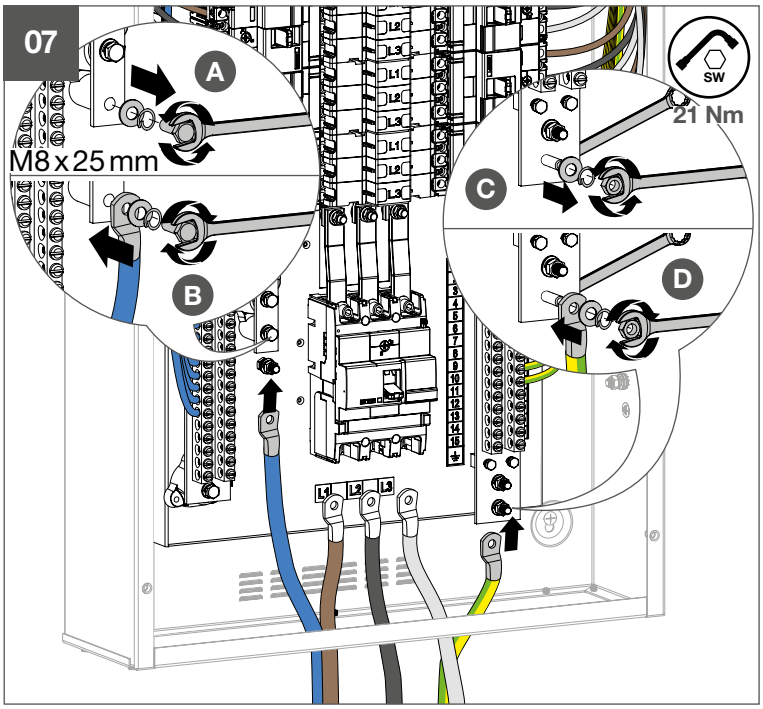

02
D
PZ2
A
L3
B
C

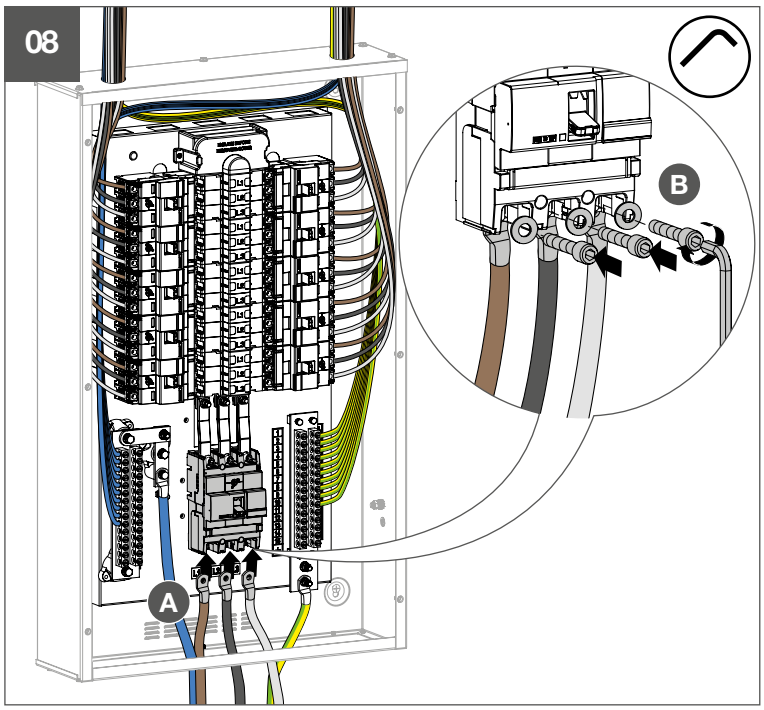

03
PZ2
12 Nm
C
3 x M8
B
A

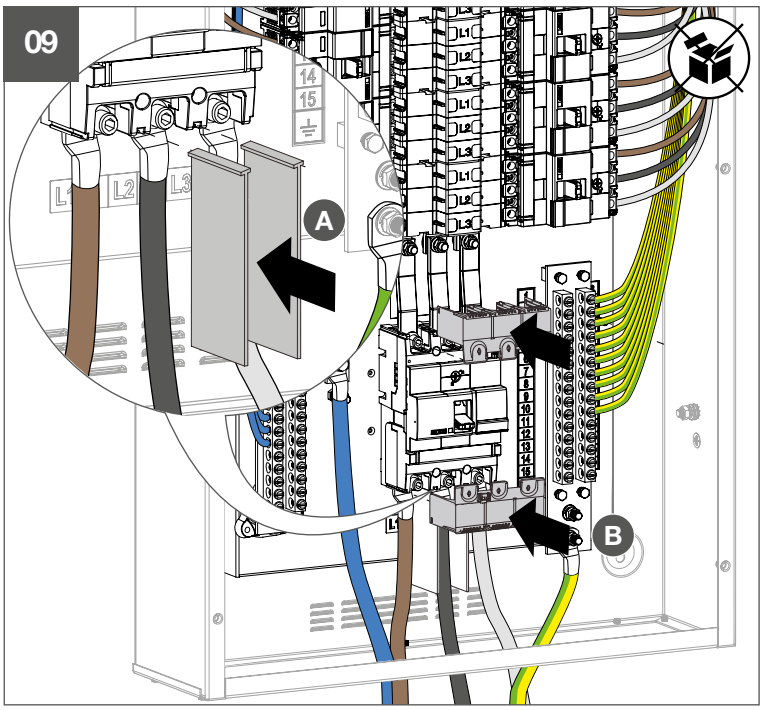

04
PZ2
1 Nm
A
B
C
2 x M4 x 55 mm

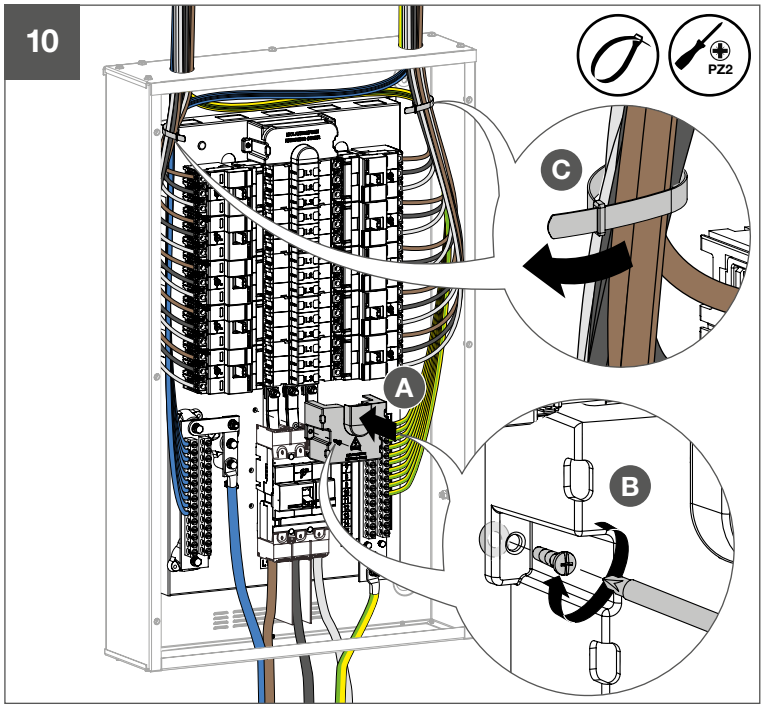

05
PZ2
10 Nm
L1
L2
L3
A
B
3 x M6

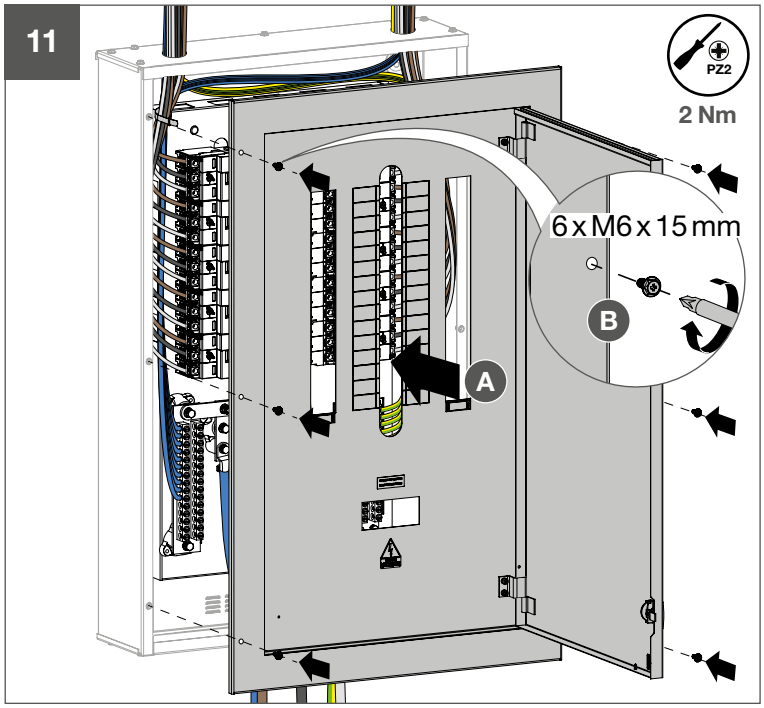

06
SL
12 Nm
A
B
M8 x 14 mm
C
D
E
M8 x 14 mm
F

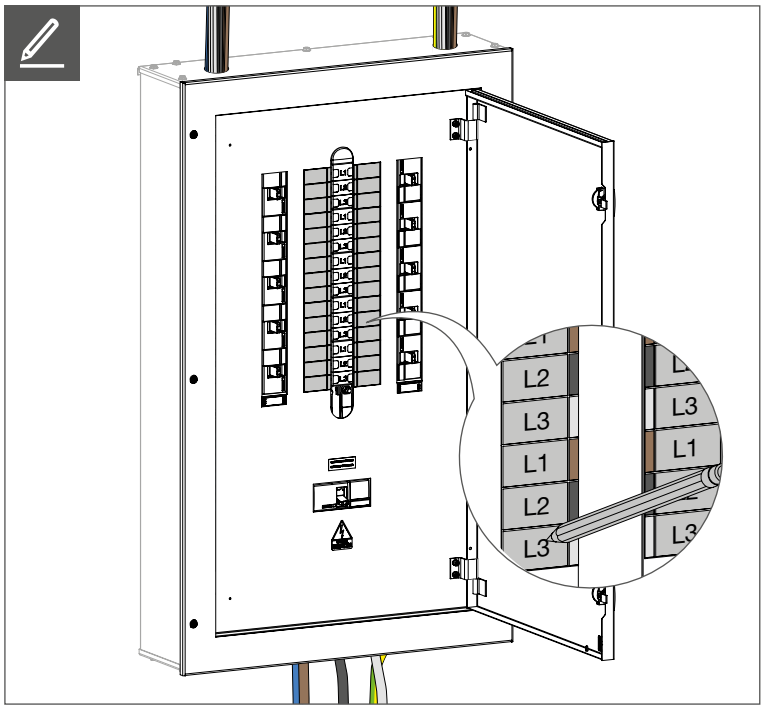

07
SW
21 Nm
A
M8 x 25 mm
B
C
D

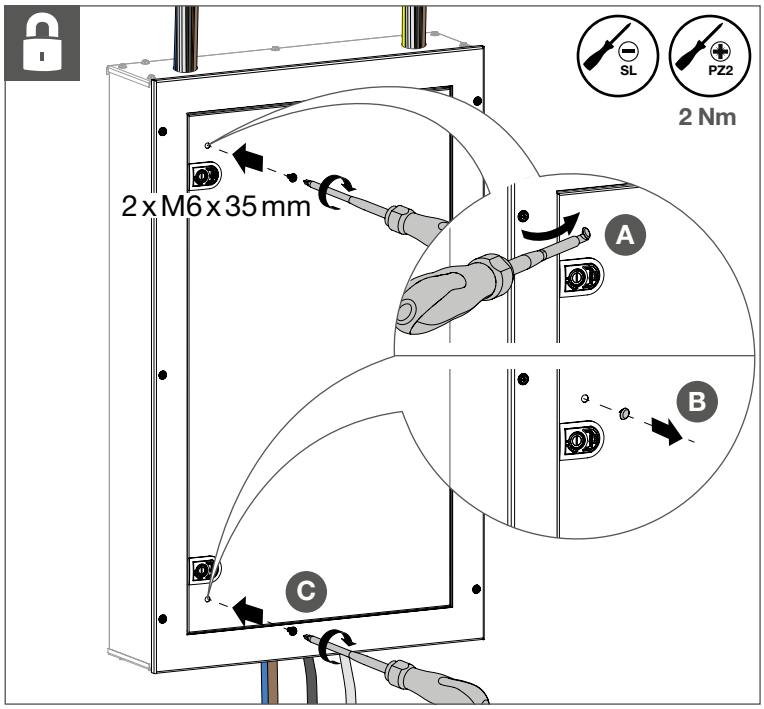

08
B
A

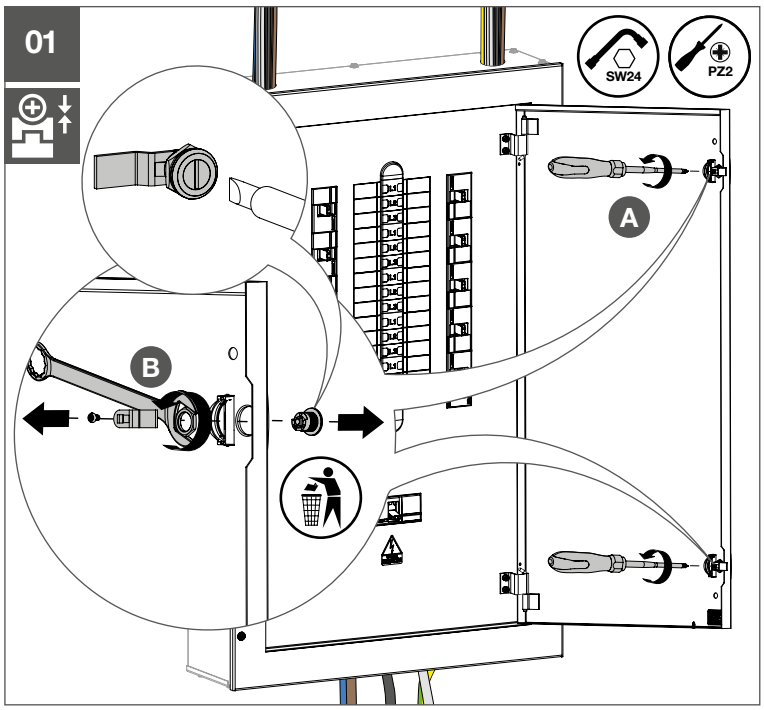

09
A
B

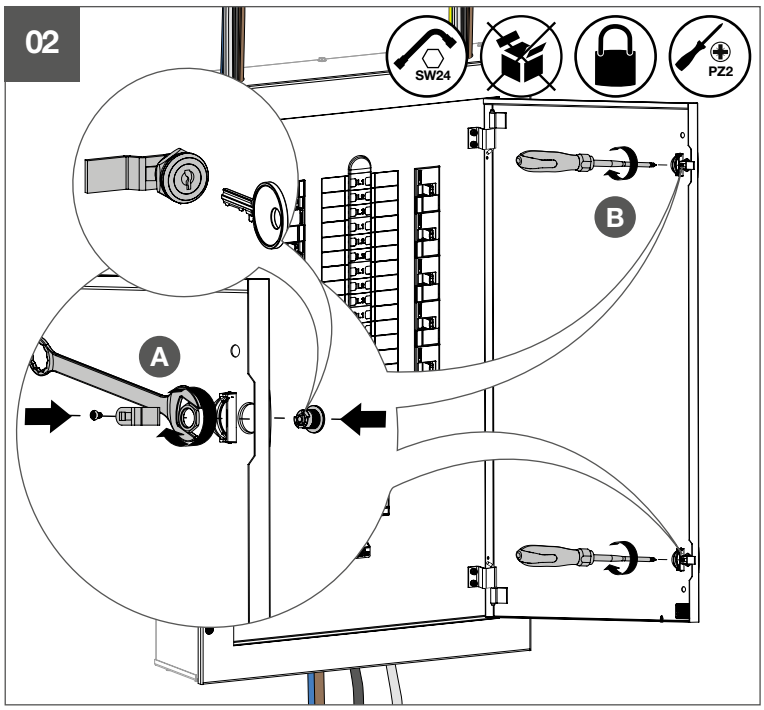

10
PZ2
C
A
B

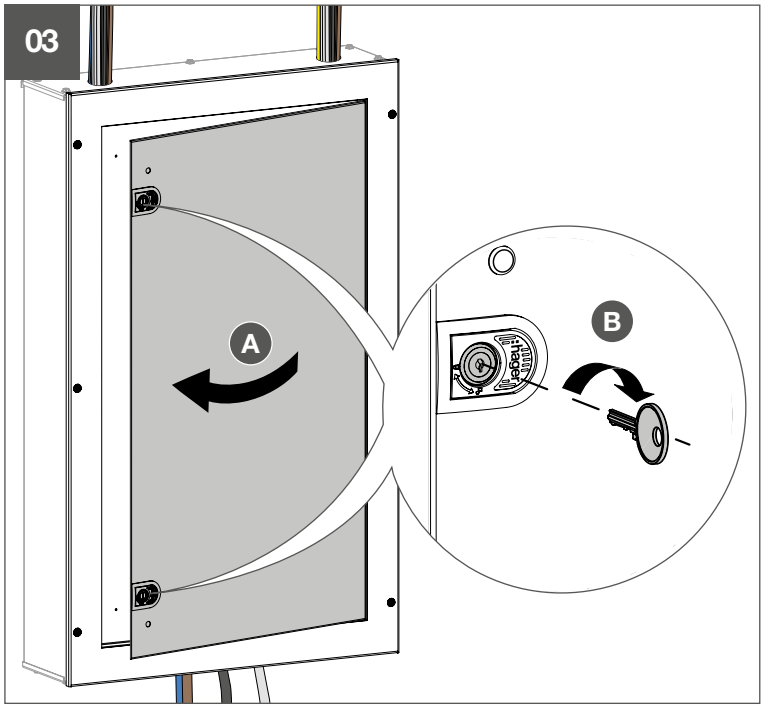

11
PZ2
2 Nm
6 x M6 x 15 mm
B
A

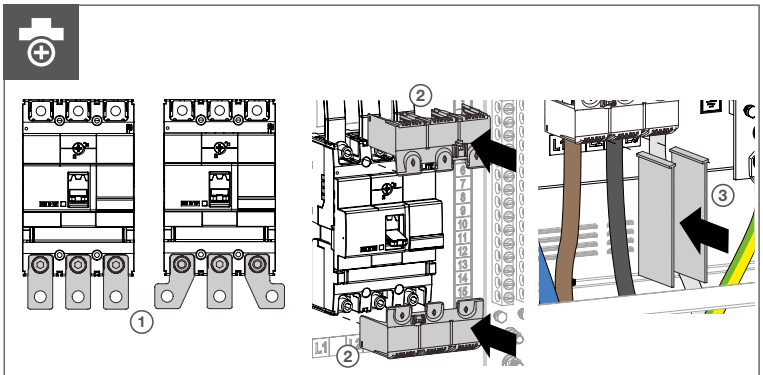

L2
L3
L1
L2
L3


SL
PZ2
2 Nm
2 x M6 x 35 mm
A
B
C


01
SW24
PZ2
A
B


02
SW24
PZ2
B
A





I_{nA}	Switch Frame size	① Copper link bar		② Terminal covers				③ Interphase barrier (optional)
		Straight connect.	Spreader connect.	for rear connect.	for spreaders	for straight bars	for collar terminals	
250 A	X250	HYB010H	HYB011H	HYB025H	HYB023H	HYB021H	HYB027H	HYB019H
	h250	HYC010H	HYC011H	HYC025H		HYC021H	HYC027H	HYC019H
400 A	X630	HYW010H	HYW011H		HYW023H	HYW021H		HYW019H
	h400, h630	HYD010H	HYD011H	HYD025H	HYD023H	HYD021H	HYD027H	HYD019H
800 A	h1000			HYE025H		HYE021H		

Technical data

Product family	JN2BxxxxxSx	JN4BxxxxxSx	JN8BxxxxxSx
Assembly Rated Current (I_{nA}) max	250 A	400 A	800 A
Group rated current of a main circuit (I_{ng}) for:			
– 125 A MCCB	100 A	87.5 A	75 A
– 250 A MCCB	not applicable	not applicable	not applicable
Rated diversity factor (RDF)	0.8 [1]	0.7 [1]	0.6 [1]
Short circuit withstand strength			
Rated conditional short-circuit withstand current (I_{cw}):			
– Main busbar	25 kA for 0.3 s	35 kA for 1.0 s	40 kA for 1.0 s
– Neutral system	15 kA for 1.0 s	21 kA for 1.0 s	25.8 kA for 1.0 s
Rated peak withstand current (I_{pk}):			
– Main busbar	52.5 kA	73.5 kA	84.0 kA
– Neutral system	30 kA	44.1 kA	54.2 kA
Rated conditional short-circuit current (I_{cc}) at 440 V AC 0.2 pf:			
– Incoming circuits	25 kA	50 kA	50 kA
– Outgoing circuits	25 kA	25 kA	25 kA
Rated operational voltage U_n/ U_e			415 V AC, 50/ 60 Hz
Rated insulation voltage U_i			690 V AC, 50/ 60 Hz
Rated Impulse withstand Voltage U_{imp}			6 kV
Degree of protection	IP41 with door closed and cable entries sealed IP2XC with door open and cable entries sealed (with full compliment of devices / JN2XBSP fitted)		
Limits of operation			as assigned
Stationary Movable			Stationary only
Type of construction			Fixed

Product family	JN2BxxxxxSx	JN4BxxxxxSx	JN8BxxxxxSx
Electrical connections			F (fixed)
Measures for protection of persons	Direct / Indirect contact by the protective circuit		
Service conditions			Indoor use only
Pollution degree			3
Mechanical impact			IK05
Electromagnetic compatibility (EMC)			Environment B
Intended use			Distribution boards intended to be operated by skilled persons (PSC)
Electromagnetic compatibility (EMC) classification			EMC Environment B
External design	Wall-mounted, surface type, enclosed assembly.		
FOIS (Forms of Internal Separation)			3a
PSC-Assembly Type			Type B PSC
Type of earthing system	TNC-S, TN-S and TT when installed in an electrical system conforming to IEC 60364 / BS 7671		
Type of short-circuit protective device(s)			MCCB's
Measures for protection against electric shock			Class I (metallic)
Earth and Neutral links			
Neutral bar size			12 x 20 mm
Earth bar size			12 x 20 mm
Earth and neutral bar tunnels	Single screw tunnel Ø 10.5 mm (up to 50 mm² cable) solid and stranded conductors		

[1] RDF only applies to continuously and simultaneously loaded circuits.