FB100206N0A2MC

Enclosed solution – Plug and play

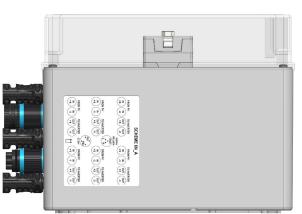
edition 04: data 21/01/2025

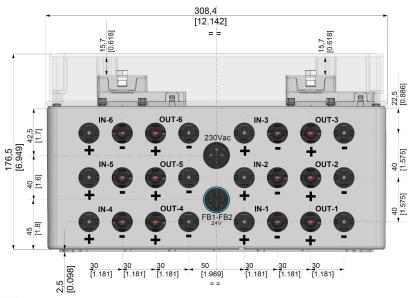


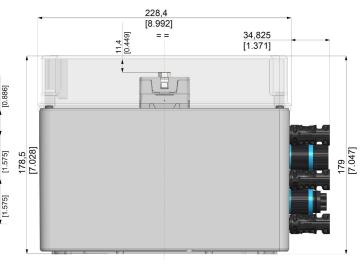
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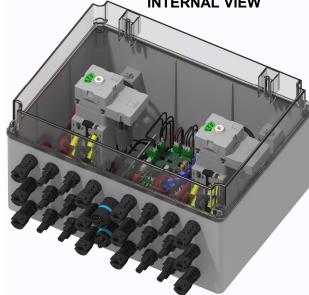
## $\epsilon$





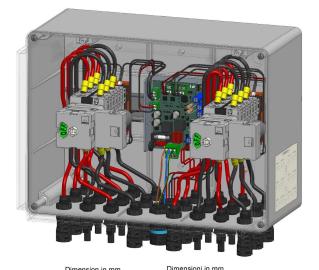


## **INTERNAL VIEW**





### **INTERNAL VIEW**



Dimension in mm in [inch]

in [pollici]

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Enclosed solution – Plug and play

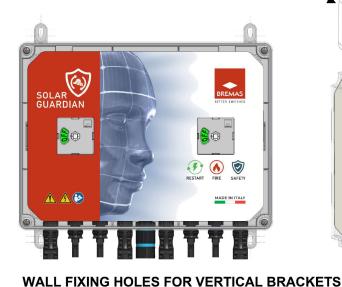
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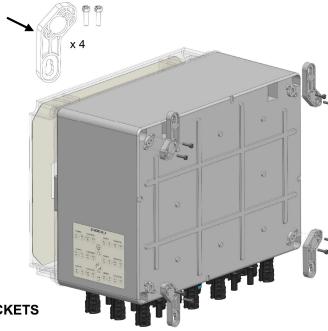


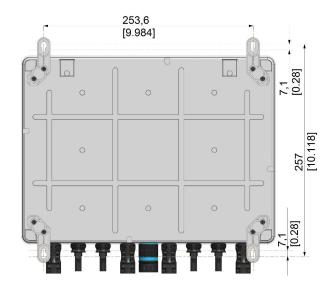
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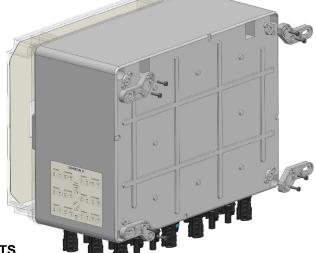
## WALL MOUNTING BRACKETS

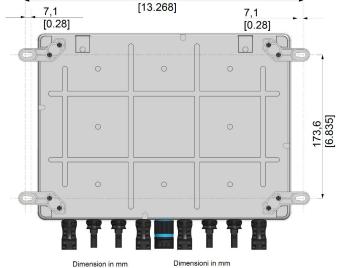












in [pollici]

337

in [inch]

WALL FIXING HOLES FOR HORIZONTAL BRACKETS

RESTART FIRE

## **SOLAR GUARDIAN**

Enclosed solution – Plug and play

edition 04 : data 21/01/2025

# BREMAS BETTER SWITCHES

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#### FB100206N0A2MC

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Technical data according to IEC 60947-3				
Rated insulation voltage	Ui	V	1500	
Rated impulse withstand voltage	Uimp	kV	8	
Rated thermal current	Ith	Α	50	
Power loss per layer at 20 A / 50 A		W	0,2 / 1,25	
DC inputs				
Number of inputs			6	
Utilization category			PV1	PV2
Rated operational current at 1100 V	le	Α	12	5
Rated operational current at 1000 V	le	Α	20	10
Rated operational current at 750 V	le	Α	32	18
Rated operational current at 700 V	le	Α	40	20
Rated operational current at 500 V	le	Α	50	-
Short circuit protection				
Rated conditional short-circuit current		kA	5	
Max fuse size for short circuit protection	gPV	Α	50	
Rated short-time withstand current (1 s)	lcw	Α	780	
Rated short-circuit making capacity	Icm	kA	1,4	
Terminals				
Connection type			MC4 plug-in connector	
Protection degree IEC EN 61439-2				
Solution in box			IP56	
Ambient conditions				
Pollution degree			2	
Operational ambient temperature		°C	-30 ÷ +85	
Storage ambient temperature		°C	-30 ÷ +85	
Damp heat test IEC 60068-2-30			90-100% RH at +55 °C	

edition 04 : data 21/01/2025

Enclosed solution – Plug and play

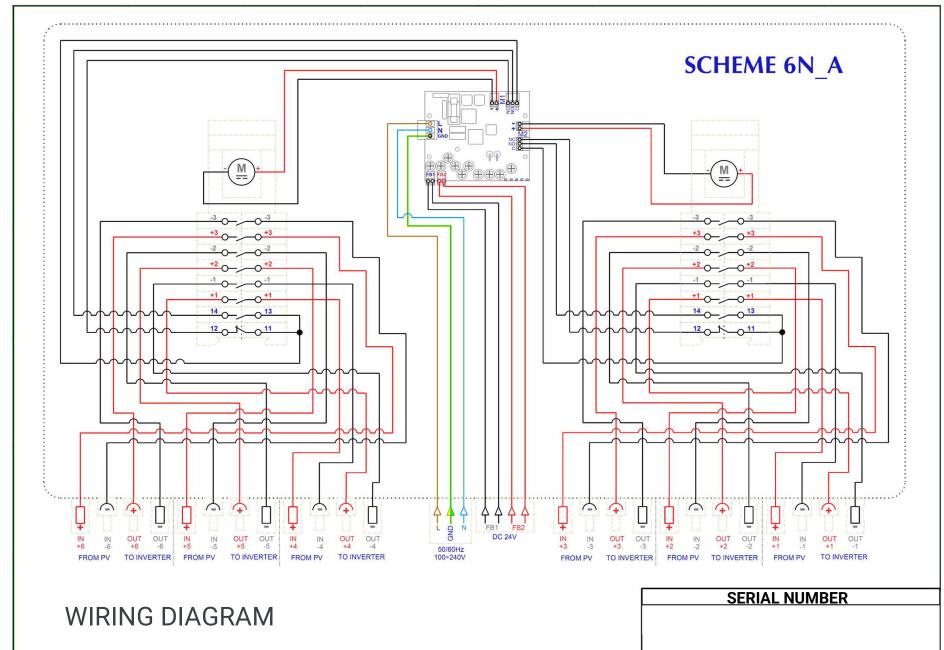
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## FB100206N0A2MC

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**BREMAS** 

BETTER SWITCHES

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## ISO 9001 Certified Quality System $\epsilon$

Bremas Ersce S.p.A.

#### MINI-PLUG-SOCKET CONNECTOR IP66/IP68



Number of poles	2 - 3 - 4 poles	
Type of contact	Screw / Piercing	
Rated current	17.5A AC (IEC) 15A AC (UL / CSA)	
Nominal Tension	500V AC 250V AC (use class II) 600V AC / DC (UL / CSA)	
Impulse withstand voltage	4kV	
Degree of protection (IP6x)	IP66 / IP68 (30m / 3h)	
Conductor section rigid / flexible min. – max.	0.5 mm <sup>2</sup> - 4.0 mm <sup>2</sup> (Screw) 0.5 mm <sup>2</sup> - 1.5 mm <sup>2</sup> (Piercing)	
	◆ 7.0 mm − 12.0 mm	
Cable diameter min. – max. <sup>(2</sup> )		
Connector / gasket materials	PA66 GF UL94 V0 / V2 TPE Halogen Free / Silicone Free	
Ambient Temperature min max.	-40°C/+125°C	
Norm	EN61984 UL2238 C22.2 No 182.3	

#### ASSEMBLY ILLUSTRATIONS



Peeling of the conductor (Y)
FIG. 1

· Remove the insulation from the cable and conductors according to the specifications indicated.

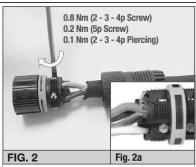
6 mm

Insert the cable through the nut, the grommet and the body of the cable gland. Check the correct use of the grommet with respect to the cable to be installed in the connector as indicated in Fig. 1b.

Grommet / Adapter		Cable Ø min max.			
	-	•	*		
		2 - 3 - 4 - 5 poles	2 - 3 - 4 - 5 poles (.L)		
	***	9.0 mm - 12.0 mm	9.0 mm — 13.5 mm		
		7.0 mm – 9.0 mm	7.0 mm – 9.0 mm		
	0 5	672 O) 5.0 mm – 7.0 mm	6.0 mm – 7.0 mm		

For cables with a smaller diameter, use the appropriate accessories

FIG. 1b



- Insert the individual conductors into the connector terminals, making sure they are correctly positioned (Fig. 2a - example of incorrect installation).
- Turn the cable tightening screws clockwise (max. 0.2 Nm) for the 5 poles, (max. 0.8 Nm) for the 2 3 4 poles Screw and (max. 0.1 Nm) for Piercing versions.



- Join the strain relief to the connector, then turn it clockwise (max. 2.0 Nm).
   Then, insert the grommet into the cable gland (Fig. 3a in case of a double grommet, make sure to insert the grommet into the cable gland according to the correct orientation: the indicated ring must be visible).
- Make sure the cable gland is installed and screwed correctly onto the connector (Fig. 3b).



- Then, join the nut and rotate it clockwise using the quick tightening wrench max. 2.5 Nm
- The key will slip when you have reached the optimum torque It is possible fix the nut also by using common use tools (24 mm – max. 2.5 Nm).
- FIG. 5 . Make sure the correct orientation of the plug and socket connectors as indicated by the
- arrow (Fig. 5a).
- Join the pre-wired connectors together, until reaching the limit switch ensuring correct



- · Manually clockwise rotate the fixing ring of the plug connector until a firm resistance to rotation is reached.
- Alternatively, rotate the ring clockwise with the use of a tool until the torque is reached (max. 1.0 Nm).
- The socket and plug connector is correctly joined and the IP66/IP68 seal is guaranteed even if you notice a slight slot in correspondence with the fixing ring. (Fig. 6a).

