

# STRING BOXES WIRED

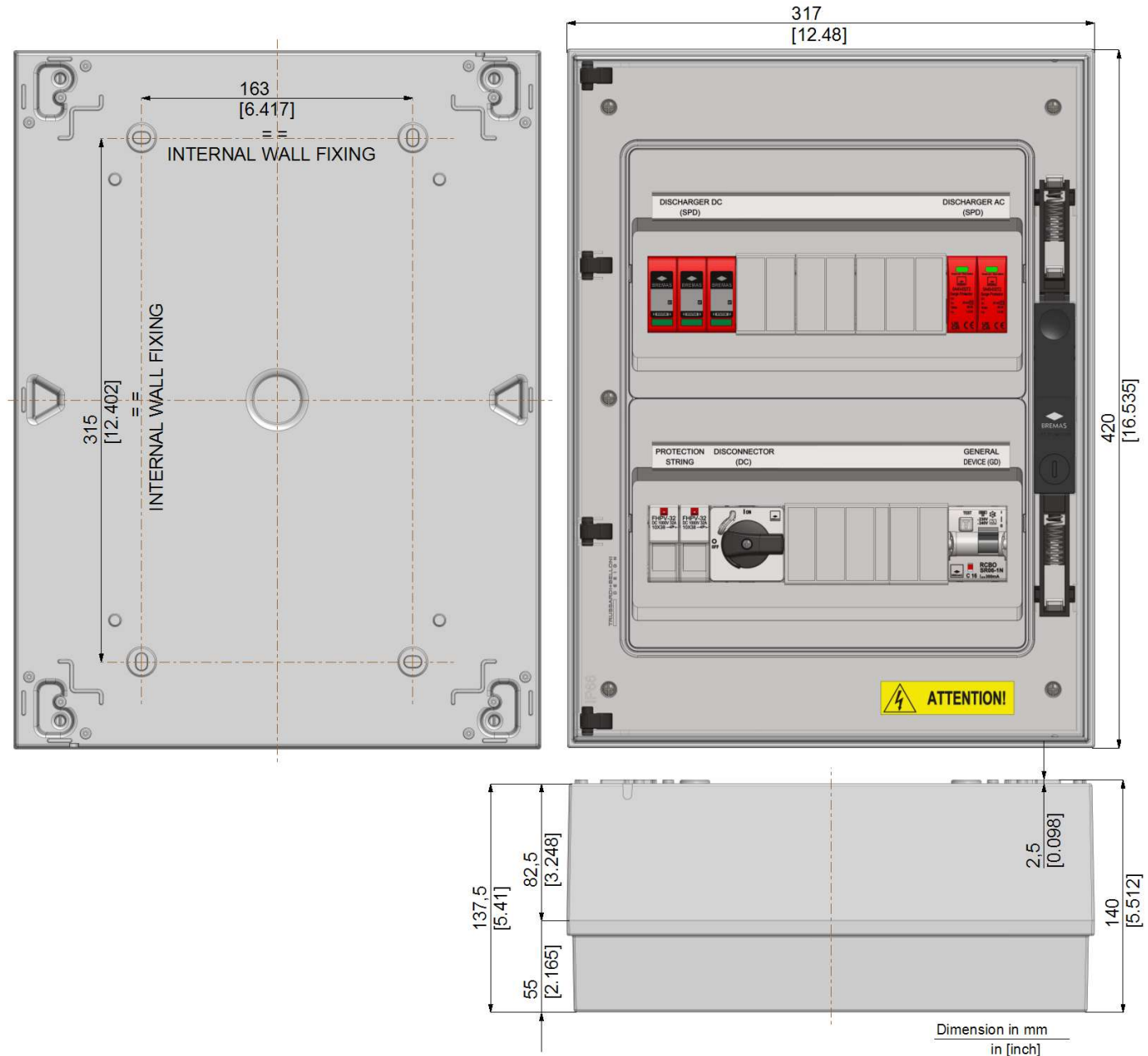
String boxes

edition 00 : data 10/06/2025

MBX10A11T2F20M16



Bremas Erscse S.p.A.  
Via Castellazzo 9 – 20040 Cambiago (MI)  
Tel +39 02 95651611 Fax +39 02 95651639  
www.bremas.it info@bremas.it  
ISO 9001 Certified Quality System



# STRING BOXES WIRED

String boxes

edition 00 : data 10/06/2025



Bremas Erscse S.p.A.  
Via Castellazzo 9 – 20040 Cambiago (MI)  
Tel +39 02 95651611 Fax +39 02 95651639  
www.bremas.it info@bremas.it  
ISO 9001 Certified Quality System

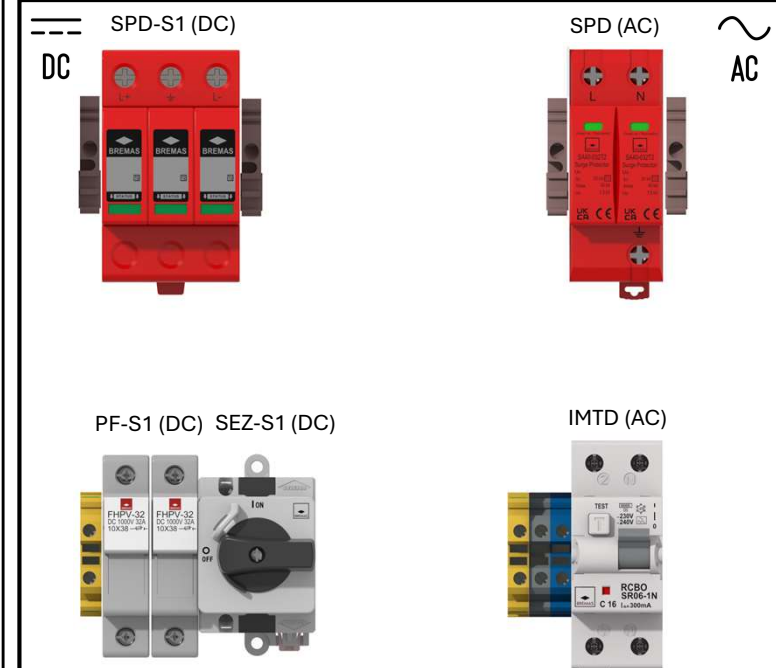


MBX10A11T2F20M16

## INSERTION SCHEME

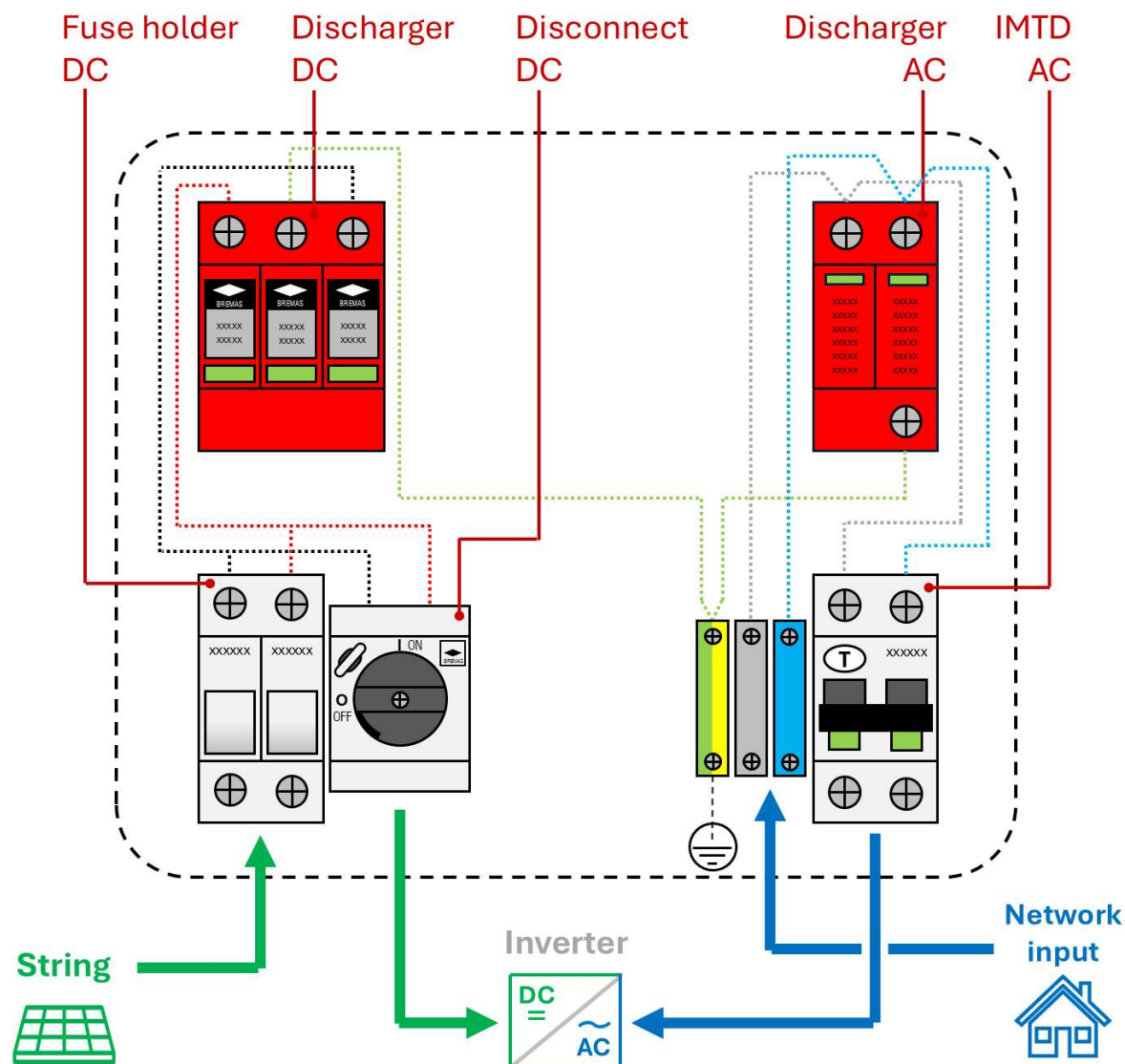
MBX10A11T2F20M16

AC/DC Panel – 1 Single Phase 16 A - 1 string 1000 Vdc



## BREMAS ERSCE SPA

Declares that the electrical panel shown complies with the provisions of the Community directives including the latest amendments, and with the relevant national implementing legislation «Low Voltage Directive 2006/95/EC» and that the following national and international harmonised and technical standards have been applied – CEI 17-13/1, EN IEC 61439-1/2, CEI 82-25.



# STRING BOXES WIRED

String boxes

edition 00 : data 10/06/2025



**Bremas Ersce S.p.A.**  
Via Castellazzo 9 – 20040 Cambiago (MI)  
Tel +39 02 95651611 Fax +39 02 95651639  
www.bremas.it info@bremas.it  
ISO 9001 Certified Quality System



**MBX10A11T2F20M16**

## ELECTRICAL CHARACTERISTICS

### DC SECTION



Rated values			
Rated operating voltage	Udc	V	1000
Rated operating current	Idc	A	20
Nr. of inputs		Nr	1
Nr. of independent MPPT inputs		Nr	1
Load disconnection			
Rated thermal current	Ith	A	50
Utilization category			PV1
Rated operating current at 600V	Ie	A	32
Protection against overload and short circuit			
Nr. Poles		Nr	2
Rated voltage	Udc	V	1000
Rated operating current (fuses)	Ie	A	20
Fuse size		mm	10x38
Class of operation			gPV
Breaking capacity		kA	30
Overvoltage protection			
Test class acc. to EN61643-11 / Type			II/C
Maximum continuous operating voltage	Ucpv	V	1000
Nominal discharge current (8/20 µs)	In	kA	20
Maximum discharge current (8/20 µs)	I <sub>max</sub>	kA	40
Impulse current (10/350 µs)	I <sub>imp</sub>	kA	-

### AC SECTION



Rated values			
Rated operating voltage	Uac	V	230
Rated operating current	Iac	A	16
Rated frequency	Fn	Hz	50
Rated short - time withstand current for 1"	Icp	kA	6
Protection against overload, short circuit and earth leakage			
Nr. Poles		Nr	2
Tripping characteristics		Tipo Type	C
Rated residual current	IΔn	mA	300
Residual current tripping characteristic		Tipo Type	A
Rated short-circuit capacity		kA	6
Overvoltage protection			
Test class acc. to EN61643-11 / Type			II/C
Maximum continuous operating voltage	Uc	V	320
Nominal discharge current (8/20 µs)	In (L-N)	kA	20
	In (N-PE)	kA	20
Maximum discharge current (8/20 µs)	I <sub>imp</sub> (L-N)	kA	40
	I <sub>imp</sub> (N-PE)	kA	40
Impulse current (10/350 µs)	I <sub>imp</sub>	kA	-

### WIRING CHARACTERISTICS

Circuit	Cable type	Colour	Min. section
Main DC circ. (+)	STYLE 10269 AWG10 105°C 1000V UL	Red	6 mmq
Main DC circ. (-)	STYLE 10269 AWG10 105°C 1000V UL	Black	6 mmq
Earth	FS17	Yellow/Green	6 mmq
Main AC circ. (phases)	FS17	Black	6 mmq
Main AC circ. (neutral)	FS17	Blue	6 mmq
Aux 230V	FS17	Black / Blue	1,5 mmq
Aux 24V / 12V	FS17	Red / White	1,5 mmq
Construction characteristics			
Form of separation (IEC 439-1)		Forma	1
Protection degree (enclosure)		IP	65
Protection class (enclosure)			II
Material (enclosure)			Polycarbonate
Operational ambient temperature		°C	-25 ÷ +50
Storage ambient temperature		°C	-40 ÷ +85
Humidity – Permitted range			
Colour (enclosure)			RAL 7035
Accessibility			from the front
Cables entry and exit			through the bottom

# STRING BOXES WIRED

String boxes

edition 00 : data 10/06/2025



Bremas Ersce S.p.A.  
Via Castellazzo 9 – 20040 Cambiago (MI)  
Tel +39 02 95651611 Fax +39 02 95651639  
www.bremas.it info@bremas.it  
ISO 9001 Certified Quality System



MBX10A11T2F20M16



## WIRING DIAGRAM

MBX10A11T2F20M16

AC/DC Panel – 1 Single Phase 16 A - 1 string 1000 Vdc

