

Bremas Ersce S.p.A.

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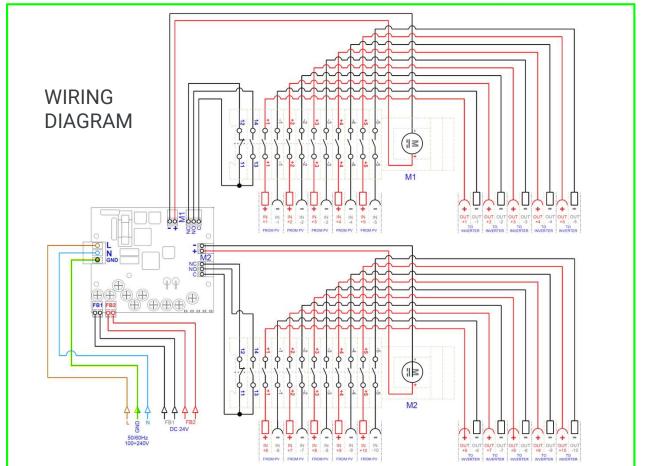
SOLAR GUARDIAN KIT FOR 10 INPUTS







Kit for DIN rail
for vertical or horizontal
mounting supplied
as spare parts



BREMAS BETTER SWITCHES

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DM100205M0AEDSC

Ambient conditions Pollution degree ins.

Operational ambient temperature

Storage ambient temperature

Damp heat test IEC 60068-2-30

Technical data according to IEC 60947-3:2021				
Utilization category			PV1 (DC-21B)	PV2
Rated operational voltage	Ue	V dc	1100	1100
Rated operational current	le	Α	12	5
Rated operational voltage (second rating)	Ue	V dc	1000	1000
Rated operational current (second rating)	le	Α	20	10
Rated operational voltage (third rating)	Ue	V dc	750	750
Rated operational current (third rating)	le	Α	32	18
Rated operational voltage (fourth rating)	Ue	V dc	700	700
Rated operational current (fourth rating)	le	Α	40	20
Rated operational voltage (fifth rating)	Ue	V dc	500	_
Rated operational current (fifth rating)	le	Α	50	_
Rated operational voltage (sixth rating)	Ue	V dc	-	_
Rated operational current (sixth rating)	le	A	-	_
Rated thermal current	Ith	A	50	
DC Poles		Nr.	10	
Rated conditional short-circuit current		kA	5	
Rated insulation voltage	Ui	V dc	1500	
Rated impulse withstand voltage	Uimp	kV	8	
Rated short-time withstand current (1 s)	lcw	A	780	
Rated short-circuit making capacity	Icm	kA		
Power loss per layer at 20 A / 50 A	ICIII	W	1,4 0,2 / 1,25	
Maximum size of the fuse for the short-circuit protection	gPV	A	0,271,25 50	
Mechanical characteristics	gr v	A	30	
Piechanical characteristics			Basemo	unting
Type of mounting			Back-side for DIN rail or 2 screws fixing For direct operation With pre-mounted status indicator	
Layers		Nr.	12	
Terminal screws orientation			Head up	
External metal parts (screws, shaft)			Stainless steel	
Cross-section of flexible/solid wires	Max.	mm²	2x 6	6
Cross-section of nexible/solid wires	I*IdX.	AWG	2x 1	0
Cross-section of wires with fork lug	Max.	mm² AWG	1x 16 1x 6	
Connection cable length from PCB to motor (+/-)	Length	mm	~250	1
and connection cable length of NO-NC auxiliary switches	Section	mm² / AWG	0,5/20	
and connection capte tengan of the translating striceless	Note		Not supplied	
	solid wire/stranded	mm²	0,129-1,31	
FB1 and FB2 signal connection cables	wire - min. / max.	AWG	26-16	
	maximum length allowed	m	50	
Minimum required fine wire cross-section: IEC 60947-1, table 9				
Terminal screws type			M4 – P	H2
Terminal screws tightening torque		Nm	1,7±10%	
Net weight		g	620	
Protection degree IEC 529 EN 60529				
Protection degree IEC 529 EN 60529 To the terminal			IP20)

Motor driven actuator

Data dan anatiana la alta da	11-	1/-1-	04.50/		
Rated operational voltage	Ue	V dc	24 ±5%		
Rated operational current	le	Α	0,4		
Stall current	Max.	Α	1,4		
Free-load current		Α	0,10		
Free-load speed	Max.	rpm	20 ±3		
Rated load current		Α	0,15		
Rated load speed		rpm	17,6 ±2		
Output power at Max. efficiency		W	1,55		
Terminal type			Solder (supplied with wiring)		
Pre-soldered cables length		mm	300		
Protection degree to the terminals			IP00*		
Operating features					
Rotation direction		Clockwise (90deg)			
Position (status indicator)		Rotary disc with static window at 09:00 o'clock			

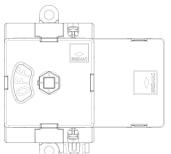
^{*} Pre soldered wiring with heat-shrink sheath

Status indicator Emergency manual operation

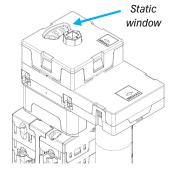
Wrench = Ch.10 or Square Key = $\Box 5$

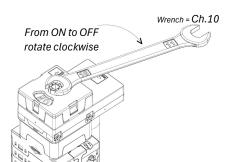


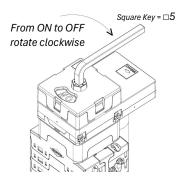












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2

-30 ÷ +50

-30 ÷ +85

90-100% RH at +55 °C

°C

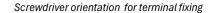
°C

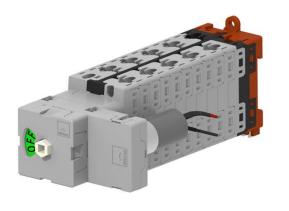
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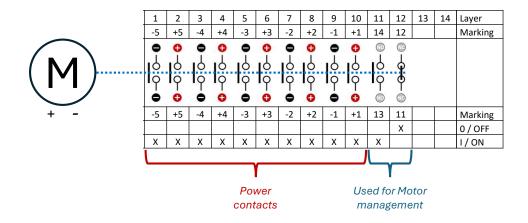
Product image



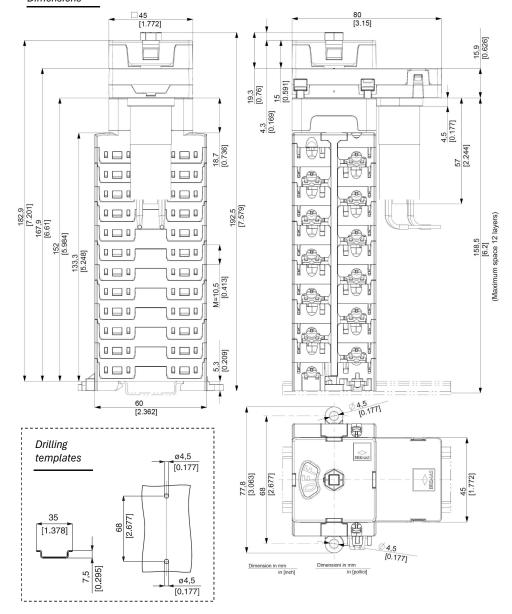




Electrical Diagram



Dimensions



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FSEB2M

Electronic board

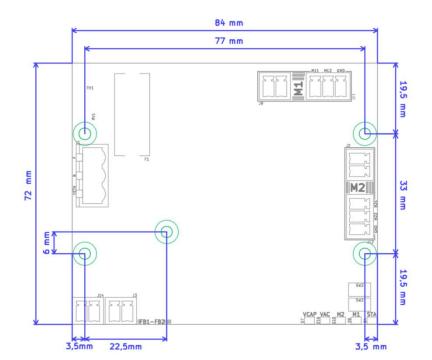
Product image





Dimensions

5 holes diameter 3,2 mm



Technical data

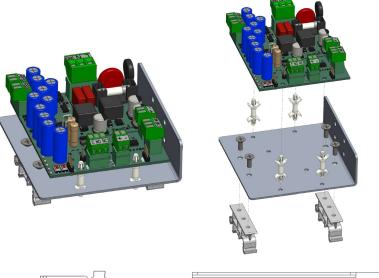
AC supply				
oltage range		V ac	100240	
Rated operational voltage		V ac	230 ±5%	
Frequency range		Hz	50/60	
Rated operational current (stand-by)		mA	≅ 20	
Rated operational current (peak)	Max.	1ax. mA ≅ 400		
Overvoltage protection		V ac	275 (varistor)	
Functional data				
Capacitors charging time	Max.	S	÷18	
FB terminals (J3-J14) – Electrical parameters	Max.		24 Vdc – 100 mA	
Temperature for automatic shutdown		°C	+100	
Mechanical characteristics				
Dimensions (L x H x P)		mm	84 x 72 x 25	
Net weight		g	76 (FSEB1M) - 81 (FSEB2M)	
Cross-section of flexible/solid wires (J1 terminal)	Max	mm² AWG	2 14	
Cross-section of flexible/solid wires (J2-J3-J9-J11-J12-J14 terminals)	Max.	mm² AWG	1,3 16	
Ambient conditions				
Operational ambient temperature		°C	-30 ÷ +50	
Storage ambient temperature		°C	-30 ÷ +85	
Humidity	90-100% RH at +55 °C			

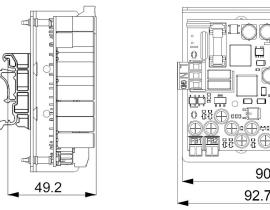
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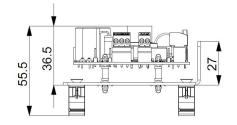
FSDIN

DIN support

Horizontal mounting







90

92.7

Vertical mounting

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