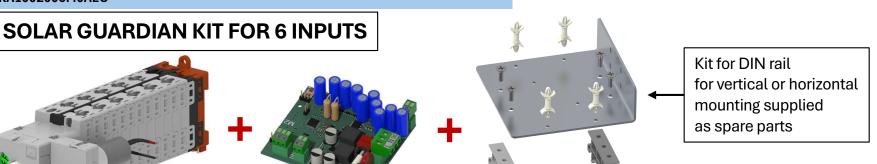


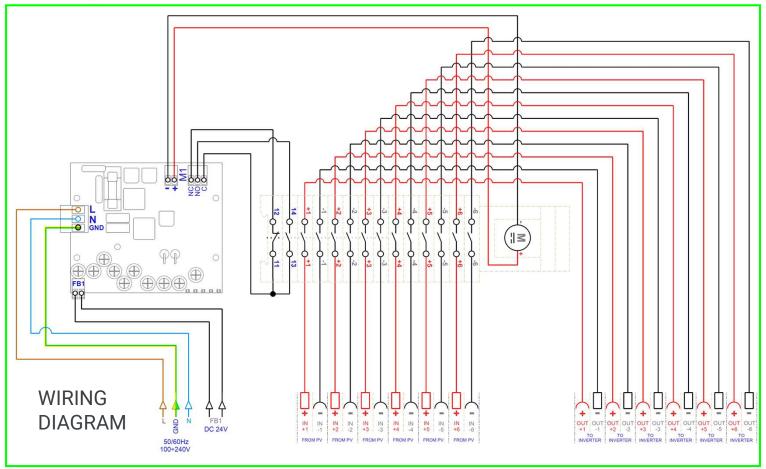
Bremas Ersce S.p.A.

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KA1002006M0AEC





BREMAS BETTER SWITCHES

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Damp heat test IEC 60068-2-30

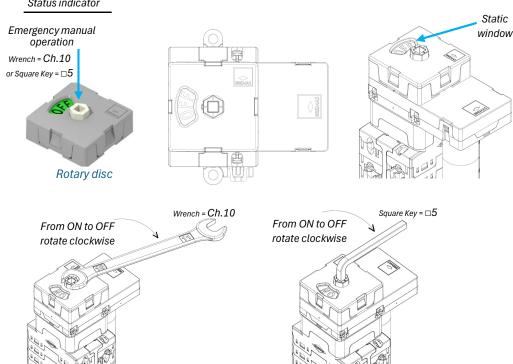
Taskuisal data assaudingta IEO 000 47 0 000 1					
Technical data according to IEC 60947-3:2021					
Utilization category			PV1 (DC-21B)	PV2	
Rated operational voltage	Ue	V dc	1100	1100	
Rated operational current	le	Α	12	5	
Rated operational voltage (second rating)	Ue	V dc	1000	1000	
Rated operational 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	Α	-	-	
Rated thermal current	Ith	Α	50		
DC Poles		Nr.	12		
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	Α	780		
Rated short-circuit making capacity	Icm	kA	1,4		
Power loss per layer at 20 A / 50 A		W	0,2/1,25		
Maximum size of the fuse for the short-circuit protection	gPV	Α	50		
Mechanical characteristics					
Type of mounting			Base mounting Back-side for DIN rail or 2 screws fixin For direct operation With pre-mounted status indicator		
Layers		Nr.	14		
Terminal screws orientation			Head up		
External metal parts (screws, shaft)			Stainless steel		
Cross-section of flexible/solid wires	Max.	mm² AWG	2x 6 2x 10		
Cross-section of wires with fork lug	Max.	mm² AWG	1x 16 1x 6		
Connection cable length from PCB to motor (+/-)	Length	mm	~250		
and connection cable length of NO-NC auxiliary switches	Section	mm² / AWG	0,5/20		
	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	M4 – PH2	
Terminal screws tightening torque		Nm	1,7 ±10	0%	
Net weight		g	680		
Protection degree IEC 529 EN 60529					
Fo the terminal			IP20)	
			2		
Pollution degree ins.		°C	2 -30 ÷ +	-50	
Ambient conditions Pollution degree ins. Operational ambient temperature Storage ambient temperature		°C	2 -30 ÷ + -30 ÷ +		

Motor driven actuator

Motor characteristics				
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



90-100% RH at +55 °C

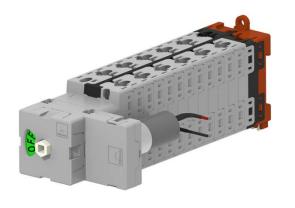
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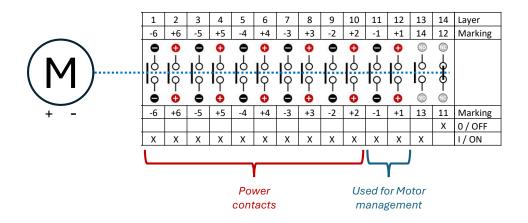
Product image

Screwdriver orientation for terminal fixing

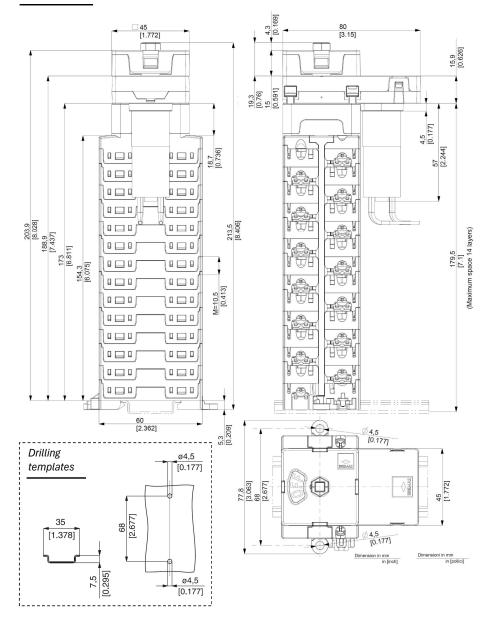




Electrical Diagram



Dimensions



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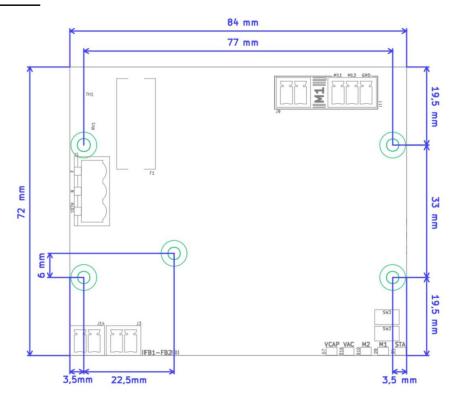
FSEB1M

Electronic board

Product image



Dimensions



Technical data

AC supply			
Voltage 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.	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 social of florible (solid wires (14 torroins))	Max	mm²	2
Cross-section of flexible/solid wires (J1 terminal)		AWG	14
Once	Max.	mm ²	1,3
Cross-section of flexible/solid wires (J2-J3-J9-J11-J12-J14 terminals)		AWG	16
Ambient conditions			
Operational ambient temperature		°C	-30 ÷ +50
Storage ambient temperature		°C	-30 ÷ +85
Humidity			90-100% RH at +55 °C

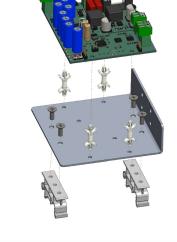
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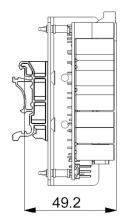
FSDIN

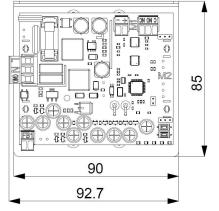
DIN support

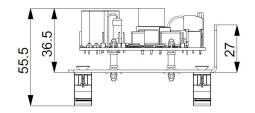
Horizontal mounting











Vertical mounting

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