SMART SOLAR SENTINEL KIT

edition 01 : data 28/09/2026

Bremas Ersce S.p.A.
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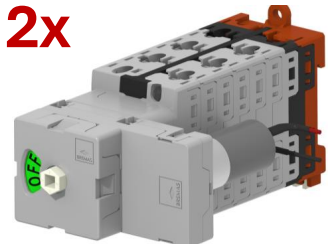
Tel +39 02 95651611 Fax +39 02 95651639
www.bremas.it info@bremas.it
ISO 9001 Certified Quality System

KB1503006MUAEC

SMART SOLAR SENTINEL KIT FOR 6 INPUTS

2x



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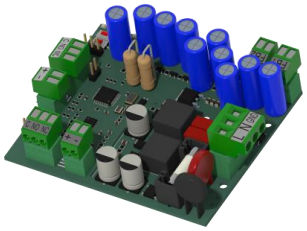

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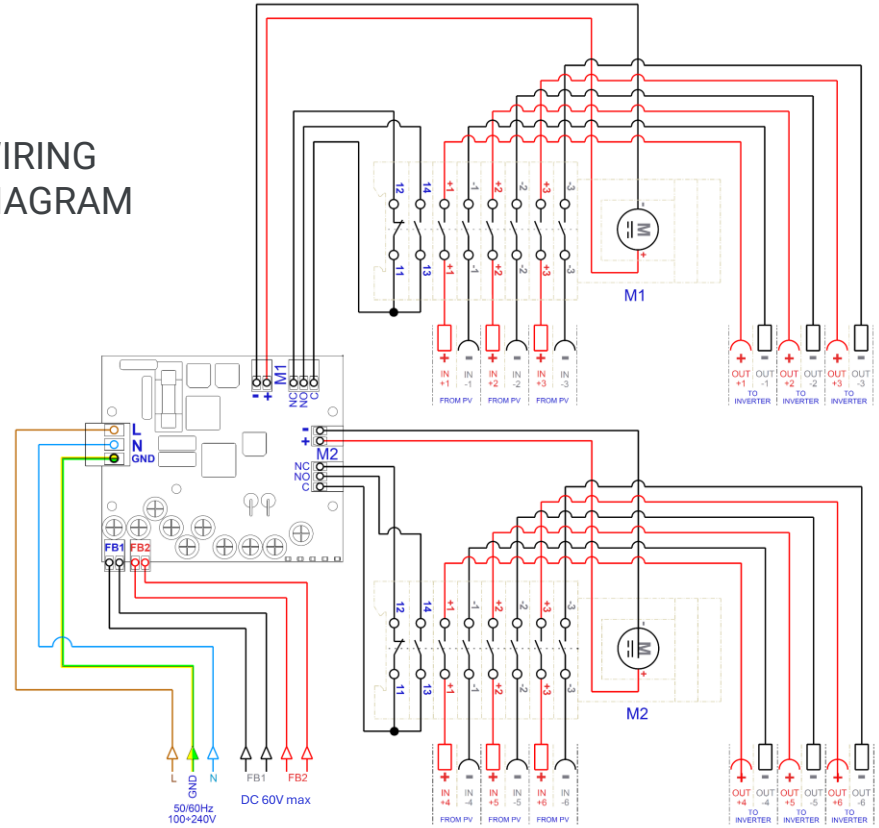
Kit for DIN rail
for vertical or horizontal
mounting supplied
as spare parts

WIRING
DIAGRAM



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DX150303MUAEDSC

DC Disconnect Switch with motor driven actuator

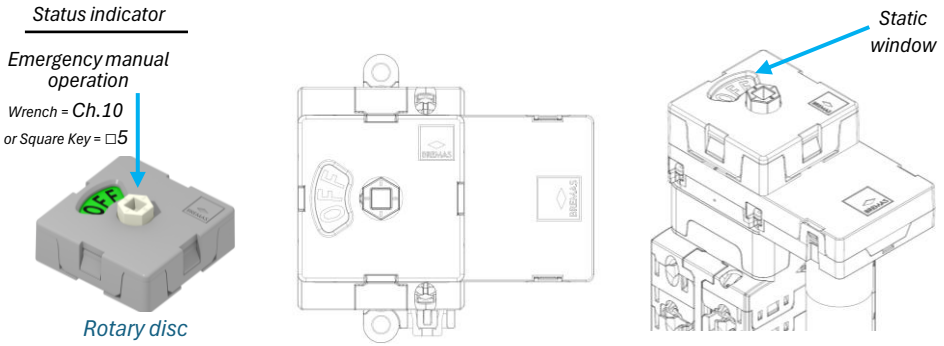
Disconnect switch

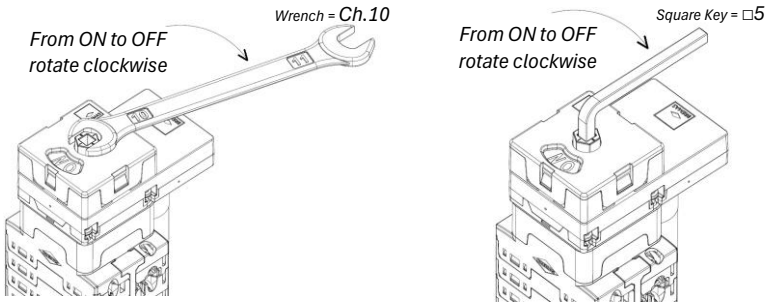
Technical data according to IEC 60947-3:2021				
Utilization category			PV1 (DC-21B)	PV2
Rated operational voltage	Ue	V dc	1500	1500
Rated operational current	Ie	A	30	8
Rated operational voltage (second rating)	Ue	V dc	1300	1300
Rated operational current (second rating)	Ie	A	30	10
Rated operational voltage (third rating)	Ue	V dc	1250	1250
Rated operational current (third rating)	Ie	A	30	12
Rated operational voltage (fourth rating)	Ue	V dc	1000	1000
Rated operational current (fourth rating)	Ie	A	50	20
Rated operational voltage (fifth rating)	Ue	V dc	-	800
Rated operational current (fifth rating)	Ie	A	-	30
Rated operational voltage (sixth rating)	Ue	V dc	-	700
Rated operational current (sixth rating)	Ie	A	-	40
Rated thermal current	Ith	A	50	
DC Poles		Nr.	6	
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)	Icw	A	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	A	50	
Mechanical characteristics				
Type of mounting			Base mounting Back-side for DIN rail or 2 screws fixing For direct operation With pre-mounted status indicator	
Layers		Nr.	10	
Terminal screws orientation			Head up	
External metal parts (screws, shaft)			Stainless steel	
Cross-section of flexible/solid wires	Max.	mm^2 AWG	2x 6 2x 10	
Cross-section of wires with fork lug	Max.	mm^2 AWG	1x 16 1x 6	
Connection cable length from PCB to motor (+/-) and connection cable length of NO-NC auxiliary switches	Length	mm	~250	
	Section	mm^2 / AWG	0,5 / 20	
FB1 and FB2 signal connection cables	Note		Not supplied	
	solid wire/stranded wire - min. / max.	mm^2 AWG	0,129-1,31 26-16	
	maximum length allowed	m	50	
Minimum required fine wire cross-section: IEC 60947-1, table 9				
Terminal screws type			M4 – PH2	
Terminal screws tightening torque		Nm	1,7 ±10%	
Net weight		g	555	
Protection degree IEC 529 EN 60529				
To the terminal			IP20	
Ambient conditions				
Pollution degree ins.			2	
Operational ambient temperature		°C	-30 ÷ +50	
Storage ambient temperature		°C	-30 ÷ +85	
Damp heat test IEC 60068-2-30			90-100% RH at +55 °C	

Motor driven actuator

Motor characteristics			
Rated operational voltage	Ue	V dc	24 ±5%
Rated operational current	Ie	A	0,4
Stall current	Max.	A	1,4
Free-load current		A	0,10
Free-load speed	Max.	rpm	20 ±3
Rated load current		A	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*





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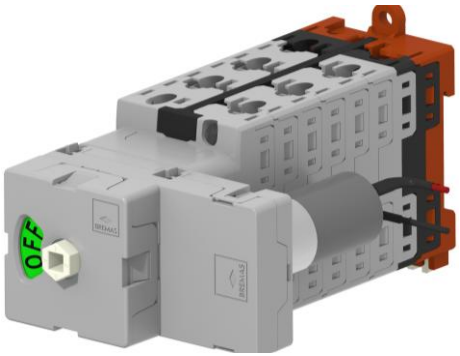
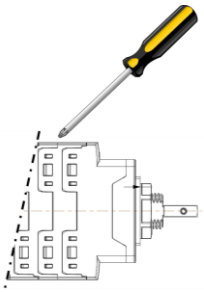
DX150303MUAEDSC

DC Disconnect Switch with motor driven actuator

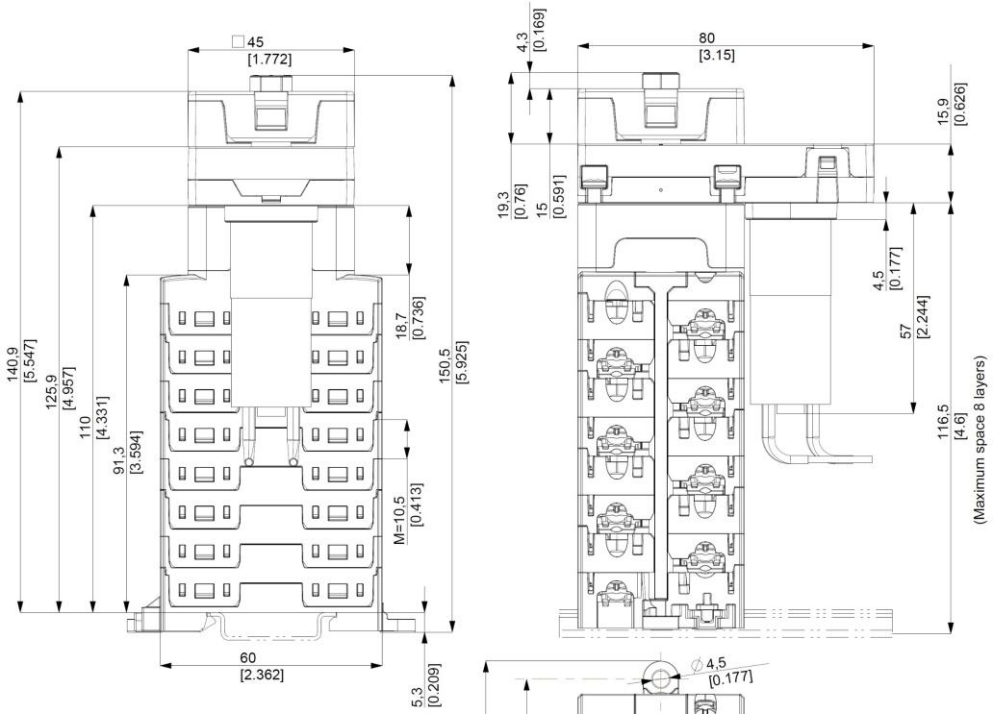
Product image



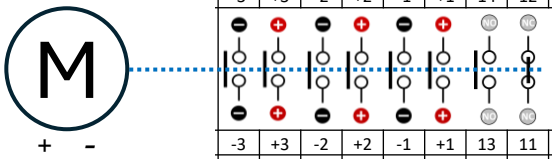
Screwdriver orientation for terminal fixing



Dimensions



Electrical Diagram

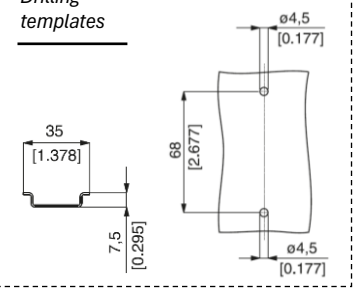


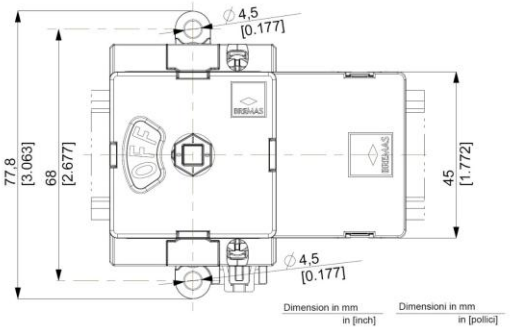
1	2	3	4	5	6	7	8	9	10	11	12	13	14	Layer
-3	+3	-2	+2	-1	+1	14	12							Marking
-3	+3	-2	+2	-1	+1	13	11							Marking
							X							0 / OFF
X	X	X	X	X	X	X								I / ON

Power contacts

Used for Motor management

Drilling templates





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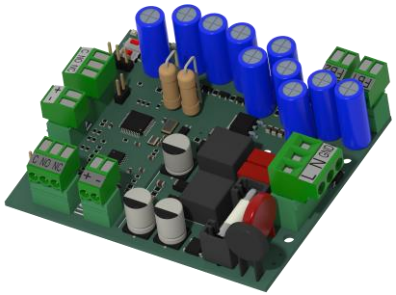
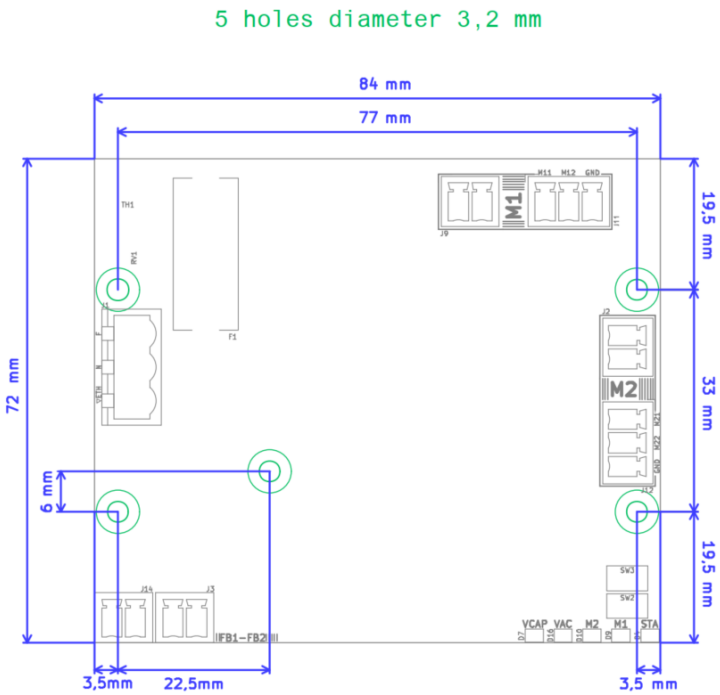
FSEB2M

Electronic board

Product image



Dimensions



Technical data

AC supply			
Voltage range		V ac	100...240
Rated operational voltage		V ac	230 ±5%
Frequency range		Hz	50/60
Rated operational current (stand-by) @230VAC		mA	10
Rated operational current (peak) @230VAC	Max.	mA	40
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	mm^2 AWG	2 14
Cross-section of flexible/solid wires (J2-J3-J9-J11-J12-J14 terminals)	Max.	mm^2 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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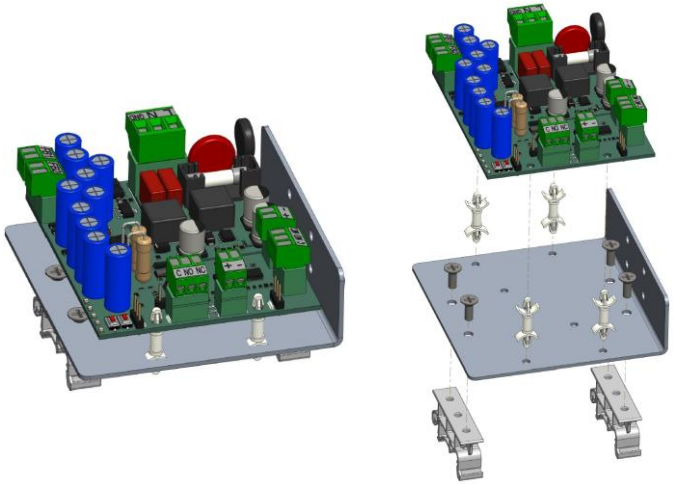
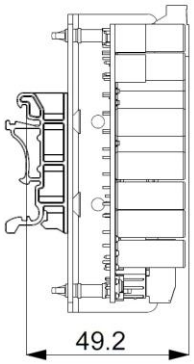
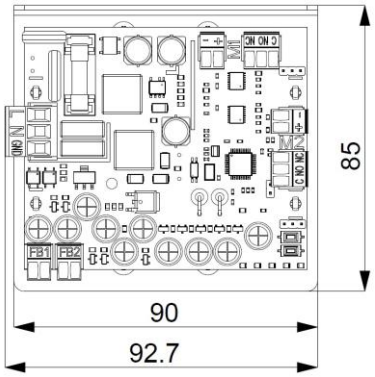
FSDIN

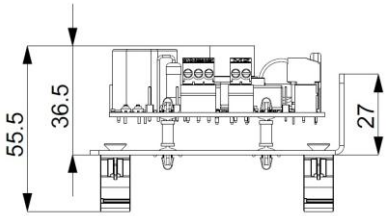
DIN support

Horizontal mounting

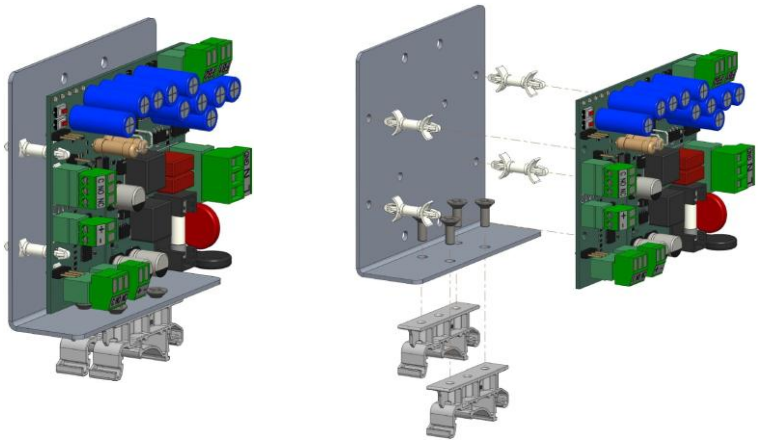


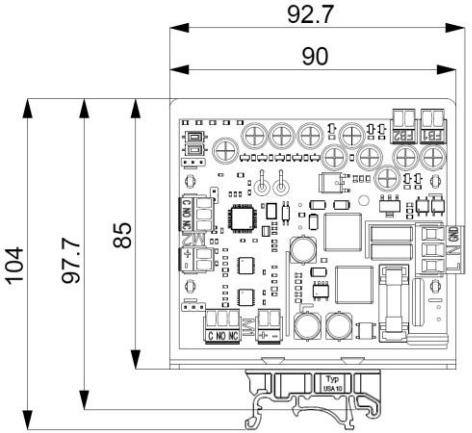


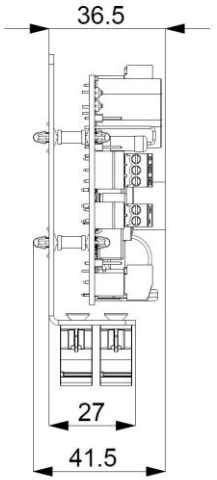




Vertical mounting







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