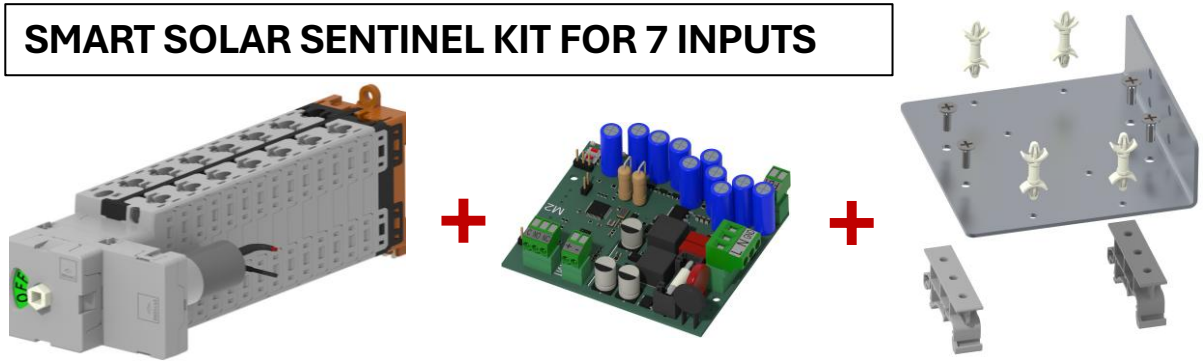
SMART SOLAR SENTINEL KIT

edition 01 : data 28/09/2026

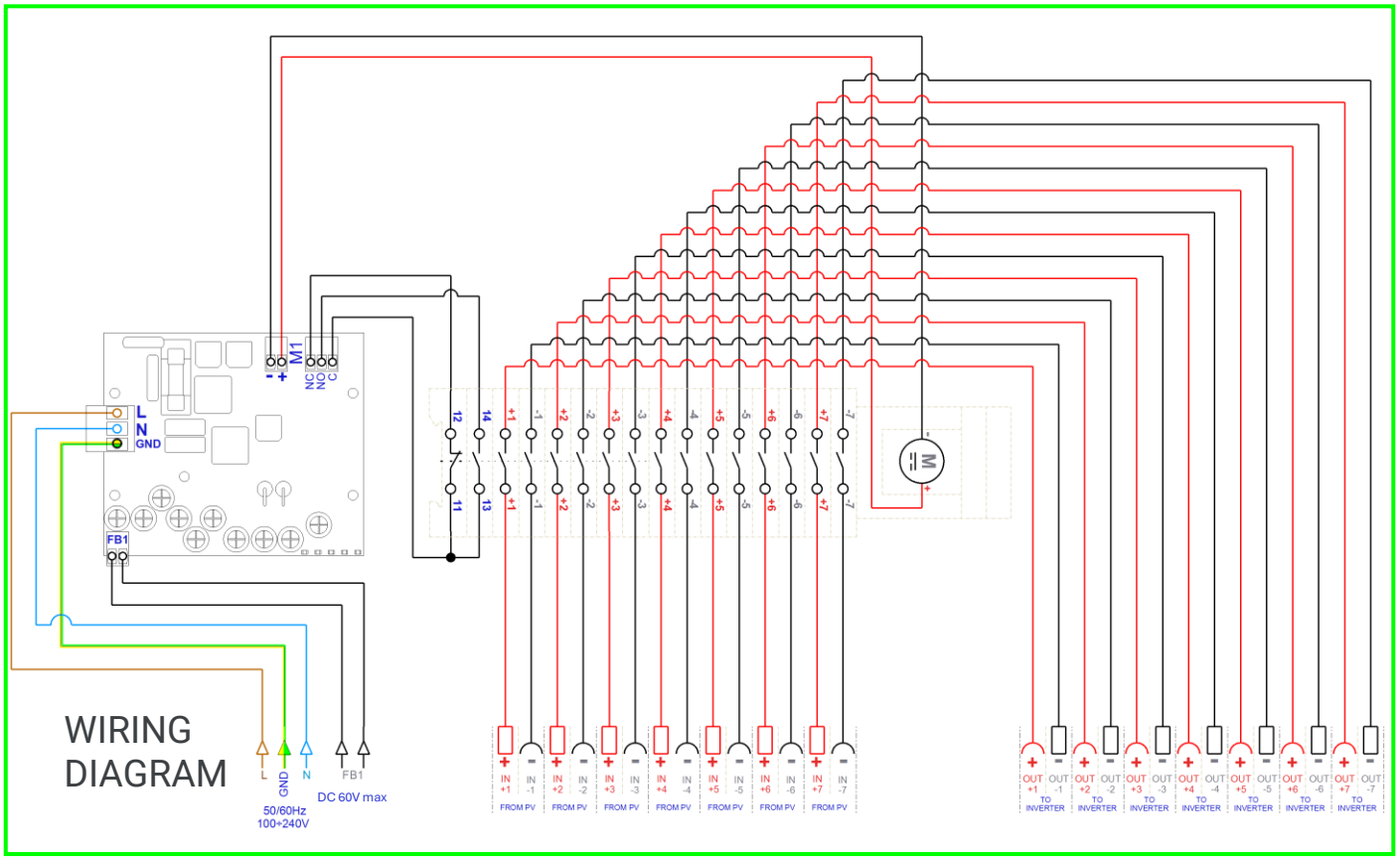
Bremas Ersce S.p.A.
Via Castellazzo 9 – 20040 Cambiago (MI)
Tel +39 02 95651611 Fax +39 02 95651639
www.bremas.it info@bremas.it
ISO 9001 Certified Quality System

KA1503007MUAEC

SMART SOLAR SENTINEL KIT FOR 7 INPUTS



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



@2017 Copyright Bremas Ersce. Subject to change without notice and errors excepted. Data reported in this paper are carefully checked and represent typical values of series production. The descriptions of the device and its applications, contexts of use, details of external controls, information on installation and operation are provided to the best of our knowledge. In any case, this does not mean from the features described it may derive legal responsibilities that extend beyond the "Terms and Conditions of sales" of Bremas Ersce. The customer / user must examine our information and recommendations and the relevant technical regulations before using the products its own purpose.

SMART SOLAR SENTINEL KIT

edition 01 : data 28/09/2026

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

DX150307MUAEDSC

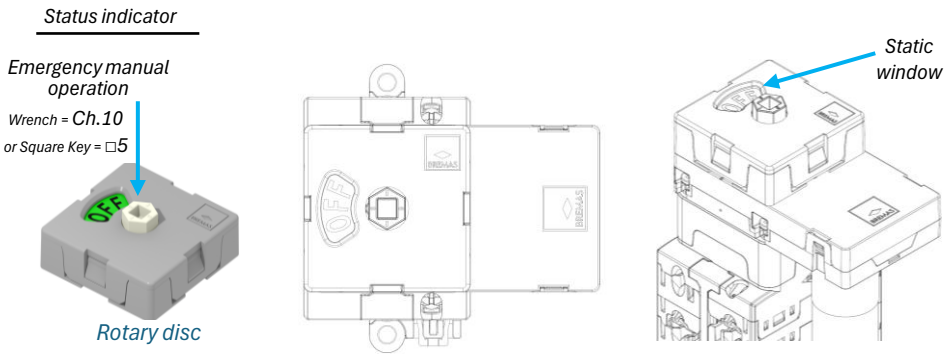
Disconnect switch

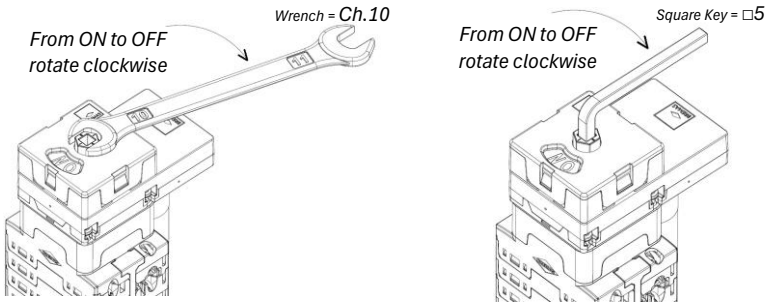
Technical data according to IEC 60947-3:2021				
Utilization category			PV1 (DC-21B)	PV2
Rated operational voltage	Ue	V dc	1500	1500
Rated operational current	Ie	A	30	8
Rated operational voltage (second rating)	Ue	V dc	1300	1300
Rated operational current (second rating)	Ie	A	30	10
Rated operational voltage (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.	14	
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.	16	
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	680	
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*





@2017 Copyright Bremas Ersce. Subject to change without notice and errors excepted. Data reported in this paper are carefully checked and represent typical values of series production. The descriptions of the device and its applications, contexts of use, details of external controls, information on installation and operation are provided to the best of our knowledge. In any case, this does not mean from the features described it may derive legal responsibilities that extend beyond the "Terms and Conditions of sales" of Bremas Ersce. The customer / user must examine our information and recommendations and the relevant technical regulations before using the products its own purpose.

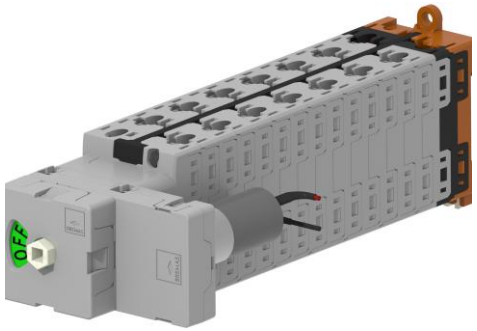
SMART SOLAR SENTINEL KIT

edition 01 : data 28/09/2026

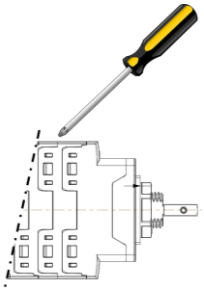
Bremas Ersce S.p.A.
Via Castellazzo 9 – 20040 Cambiago (MI)
Tel +39 02 95651611 Fax +39 02 95651639
www.bremas.it info@bremas.it
ISO 9001 Certified Quality System

DX150307MUAEDSC

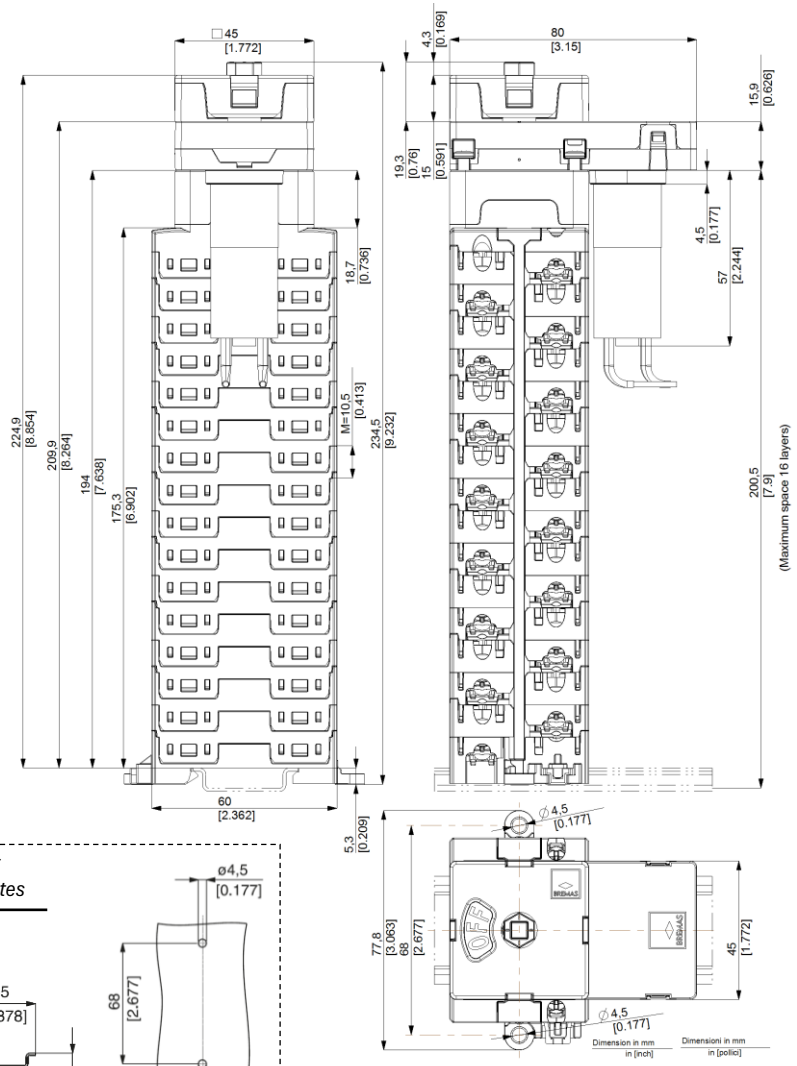
Product image



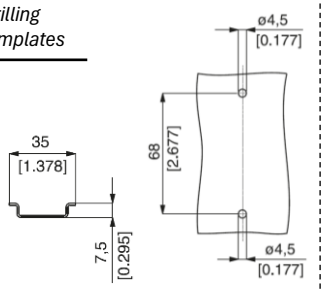
Screwdriver orientation for terminal fixing



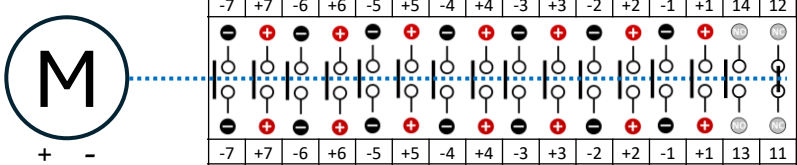
Dimensions



Drilling templates



Electrical Diagram



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Layer
-7	+7	-6	+6	-5	+5	-4	+4	-3	+3	-2	+2	-1	+1	14	12	Marking
-7	+7	-6	+6	-5	+5	-4	+4	-3	+3	-2	+2	-1	+1	13	11	Marking
															X	0 / OFF
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		I / ON

Power contacts

Used for Motor management

@2017 Copyright Bremas Ersce. Subject to change without notice and errors excepted. Data reported in this paper are carefully checked and represent typical values of series production. The descriptions of the device and its applications, contexts of use, details of external controls, information on installation and operation are provided to the best of our knowledge. In any case, this does not mean from the features described it may derive legal responsibilities that extend beyond the "Terms and Conditions of sales" of Bremas Ersce. The customer / user must examine our information and recommendations and the relevant technical regulations before using the products its own purpose.

SMART SOLAR SENTINEL KIT

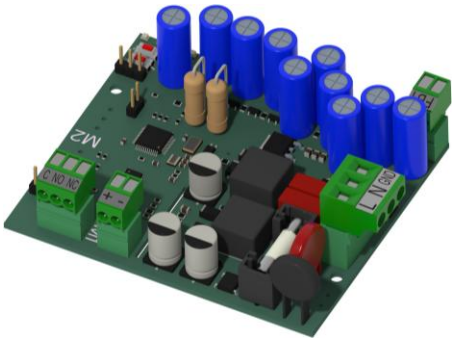
edition 01 : data 28/09/2026

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

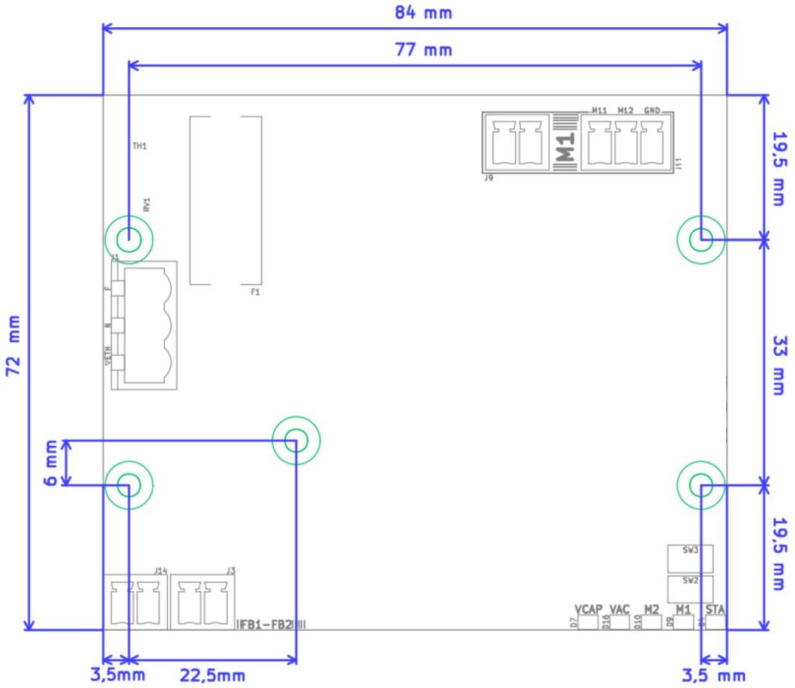
FSEB1M

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

@2017 Copyright Bremas Ersce. Subject to change without notice and errors excepted. Data reported in this paper are carefully checked and represent typical values of series production. The descriptions of the device and its applications, contexts of use, details of external controls, information on installation and operation are provided to the best of our knowledge. In any case, this does not mean from the features described it may derive legal responsibilities that extend beyond the "Terms and Conditions of sales" of Bremas Ersce. The customer / user must examine our information and recommendations and the relevant technical regulations before using the products its own purpose.

SMART SOLAR SENTINEL KIT

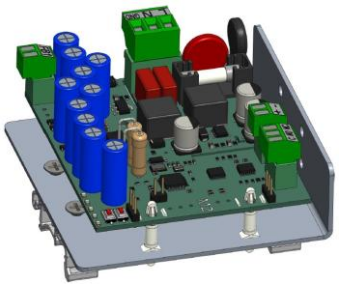
edition 01 : data 28/09/2026

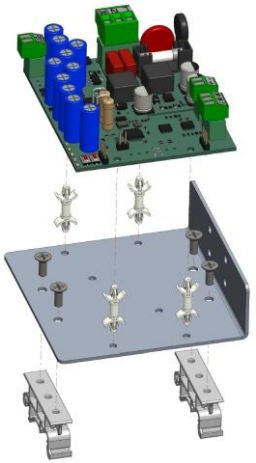
Bremas Ersce S.p.A.
Via Castellazzo 9 – 20040 Cambiago (MI)
Tel +39 02 95651611 Fax +39 02 95651639
www.bremas.it info@bremas.it
ISO 9001 Certified Quality System

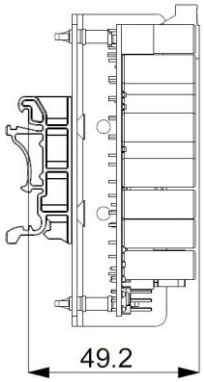
FSDIN

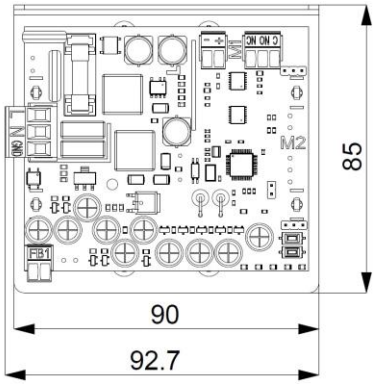
DIN support

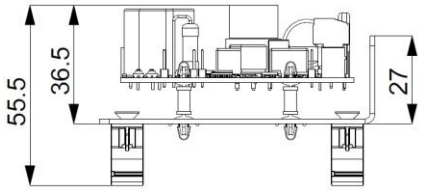
Horizontal mounting



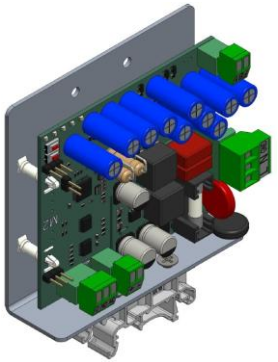


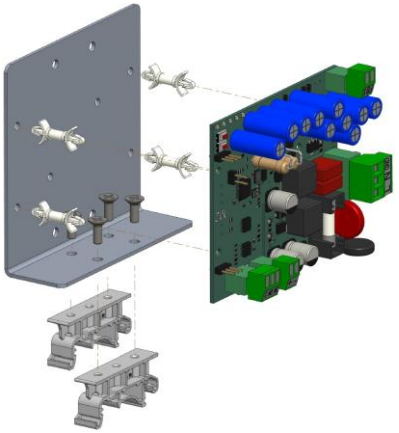


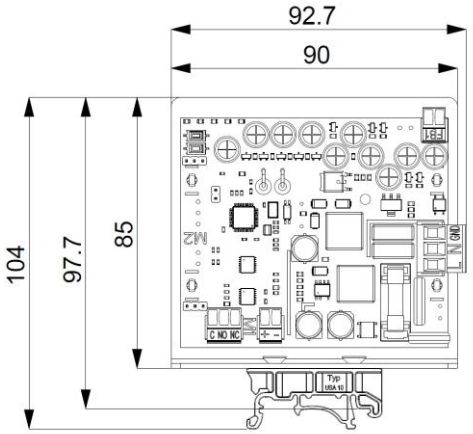


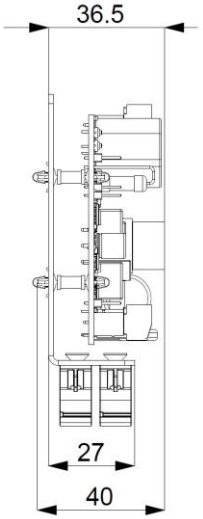


Vertical mounting









@2017 Copyright Bremas Ersce. Subject to change without notice and errors excepted. Data reported in this paper are carefully checked and represent typical values of series production. The descriptions of the device and its applications, contexts of use, details of external controls, information on installation and operation are provided to the best of our knowledge. In any case, this does not mean from the features described it may derive legal responsibilities that extend beyond the "Terms and Conditions of sales" of Bremas Ersce. The customer / user must examine our information and recommendations and the relevant technical regulations before using the products its own purpose.