

Bremas Ersce SpA
Via castellazzo 9 - 20040 Cambiago (MI)

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ISO 9001 Certified Quality System

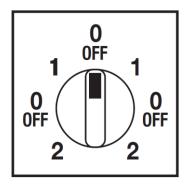
Cod. CR0160011RT4



(Image is purely indicative)



Positions



Standard and Approvals

- · Switch according to IEC/EN 60947-3
- Certified UL60947-4-1A and CAN/CSA C22.2 No. 60947-4-1-07
- · Suitable as Manual Motor Controller



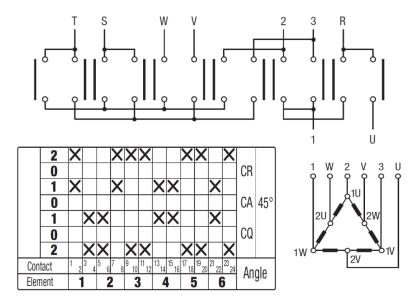
Technical characteristics: Body

- · Reversing switch Pole changing
- IP20 Protection degree
- Rated operational current le: 16A
- Rated thermal current Ith: 20A
- · Rated insulation voltage Ui: 690V
- · Rear mounting
- Fixing with 2 screw at 28mm vertical
- Switching angle: 45°
- Class V2 self-extinguishing thermoplastic housing
- Assembled with metal shaft and threaded stud bolts to ensure maximum operating reliability
- Positive opening double break contacts, silver alloy made.

Technical characteristics: Knob

- Grey plate 48x48mm and black knob
- · IP66 Protection degree
- Fixing:- 2 screw at 28mm vertical

Electrical diagram and function



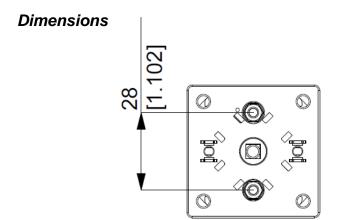


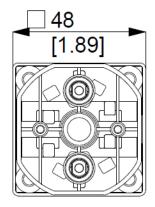
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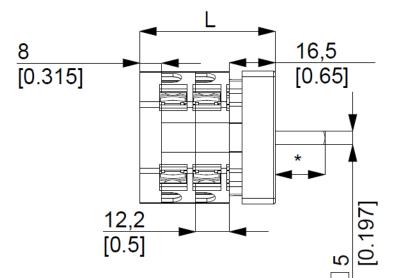
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measures in mm (in)

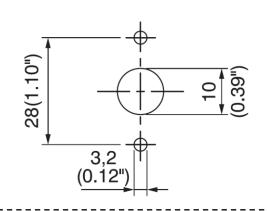


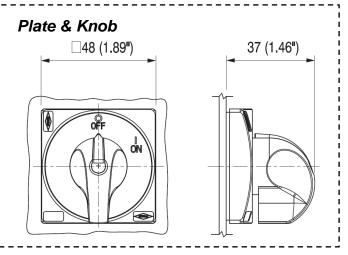




* Sporgenza / Ledge 18,00mm L Lunghezza / Length 97,60mm

Drilling templates







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Technical data IEC 947-3 EN 60947-3			
Rated insulation voltage	Ui	V	690
Rated operating voltage	Ue	V	690
Rated impulse withstand voltage	Uimp	kV	6
Rated thermal current for open switch	Ith	Α	20
Rated thermal current for enclosed switch	Ithe	Α	20
Rated operation frequency	Ture	Hz	50/60
Power dissipation for each pole		W	0,5
Rated operating current			0,5
AC-21A Switching resistive loads, including moderate overloads	le	A	16
AC-22A Switching of mixed resistive and inductive loads, including moderate overloads	le	A	16
AC-20A Connecting and disconnecting under no loads conditions			-
Rated operating power			
AC-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole	230V	Kw (A)	4 (14)
	400V	Kw (A)	7,5 (14)
	500V	Kw (A)	-
	690V	Kw (A)	-
AC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole	110V	Kw (A)	1,1 (12)
	230V	Kw (A)	2,2 (14)
AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole	230V	Kw (A)	3,7 (12)
	400V	Kw (A)	5,5 (10)
	500V	Kw (A)	=
AC 2 Cautered cann makery shortlers cuttishing off makery duction making 1 where 2 and	690V	Kw (A)	-
AC-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole	110V	Kw (A)	0,75 (9)
	230V	Kw (A)	1,5 (8)
	400V	Kw (A)	-
AC-4 Squirrel cage motors: starting, pluggign, inching	230V	Kw (A)	-
	400V	Kw (A)	-
AC-15 Control of a.c electromagnetic loads	230V	A	6
	400V	A	4
Rated breaking capability in AC-23A (cos φ=0,45)	230V	A	112
	400V	A	112
Short circuit protection			
Rated short time withstand current	Icw	Α	240
Rated short-circuit make capacity	Icm	A	<u> </u>
Rated conditional short-circuit current	-	kA	4
With fuses class gG	500V	A	20
Technical data UL/CSA			
Rated operating voltage	Ue	UL/CSA V	600/-
General use current	le	UL/CSA A	16
Short circuit rating @600Vac		Arms	5000
Fuse size (Class RKS, 600Vac, 200kA A.I.C.)		A	25 (30)
Rated operating power			
1 phase - 2 pole	120V	Hp (A)	1 (16)
	240V	Hp (A)	2 (12)
3 phase - 3 pole	200V	Hp (A)	2 (7,8)
	240V	Hp (A)	3 (9,6)
	480V	Hp (A)	7,5 (11)
			7.5 (0)
	600V	Hp (A)	7,5 (9)
Mechanical characteristics		Hp (A)	
Mechanical characteristics Panel thickness		Hp (A)	7,5 (9) 4
	600V	mm Cycles x 10 ⁶	4 2
Panel thickness Mechanical life	600V	mm	4
Panel thickness Mechanical life	600V Max	mm Cycles x 10 ⁶	4 2
Panel thickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1	600V	mm Cycles x 10 ⁶	4 2
Panel thickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1	600V Max	mm Cycles x 10 ⁶ Cycles/hr	4 2 120
Panel thickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1	Max Min-Max	mm Cycles x 10 ⁶ Cycles/hr mm²	2 120 2x1,5-4 16-10 2x1,5-6
Panel thickness Mechanical life Connecting capability With flexible wires With solid wires	Max Min-Max Min-Max	mm Cycles x 10 ⁶ Cycles/hr mm² AWG	4 2 120 2x1,5-4 16-10
Panel thickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability With flexible wires	Max Min-Max Min-Max	mm Cycles x 10° Cycles/hr mm² AWG mm²	2 120 2x1,5-4 16-10 2x1,5-6
Panel thickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability With flexible wires With solid wires Connection terminal screw dimensions Screw tightening torque	Max Min-Max Min-Max	mm Cycles x 10° Cycles/hr mm² AWG mm² Type	2 120 2x1,5-4 16-10 2x1,5-6 M3,5
Panel thickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability With flexible wires With solid wires Connection terminal screw dimensions Connection terminal screw dimensions Connection degree IEC 529 EN 60529 Terminals	Max Min-Max Min-Max	mm Cycles x 10° Cycles/hr mm² AWG mm² Type	4 2 120 2x1,5-4 16-10 2x1,5-6 M3,5
Panel thickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Mith flexible wires With solid wires Connection terminal screw dimensions Screw tightening torque Protection degree IEC 529 EN 60529 Terminals Ambient conditions	Max Min-Max Min-Max	mm Cycles x 10° Cycles/hr mm² AWG mm² Type Nm	4 2 120 2x1,5-4 16-10 2x1,5-6 M3,5 1
Panel thickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability With flexible wires With solid wires Connection terminal screw dimensions Connection terminal screw dimensions Connection degree IEC 529 EN 60529 Terminals	Max Min-Max Min-Max	mm Cycles x 10° Cycles/hr mm² AWG mm² Type Nm	2 120 2x1,5-4 16-10 2x1,5-6 M3,5 1
Panel thickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability With flexible wires With solid wires Connection terminal screw dimensions Screw tightening torque Protection degree IEC 529 EN 60529 Terminals Ambient conditions Operating ambient temperature Storage ambient temperature	Max Min-Max Min-Max	mm Cycles x 10° Cycles/hr mm² AWG mm² Type Nm	4 2 120 2x1,5-4 16-10 2x1,5-6 M3,5 1
Panel thickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability With flexible wires With solid wires Connection terminal screw dimensions Screw tightening torque Protection degree IEC 529 EN 60529 Terminals Ambient conditions Operating ambient temperature	Max Min-Max Min-Max	mm Cycles x 10° Cycles/hr mm² AWG mm² Type Nm	4 2 120 2x1,5-4 16-10 2x1,5-6 M3,5 1