

 Bremas Ersce SpA

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ISO 9001 Certified Quality System

Cod. CR0120003RT4



(Image is purely indicative)



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

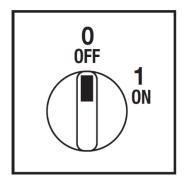


- ON-OFF switch 3 pole
- IP20 Protection degree
- Rated operational current le: 12A
- Rated thermal current Ith: 16A
- Rated insulation voltage Ui: 690V
- Rear mounting
- Fixing with 2 screw at 28mm vertical
- Switching angle: 60°
- Class V2 self-extinguishing thermoplastic housing
- Assembled with metal shaft and threaded stud bolts to ensure maximum operating reliability
- Positive opening double break contacts, silver alloy made.

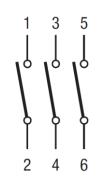
Technical characteristics: Knob

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

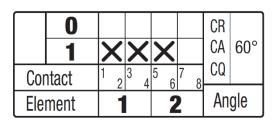
Positions



Electrical diagram



Electrical function



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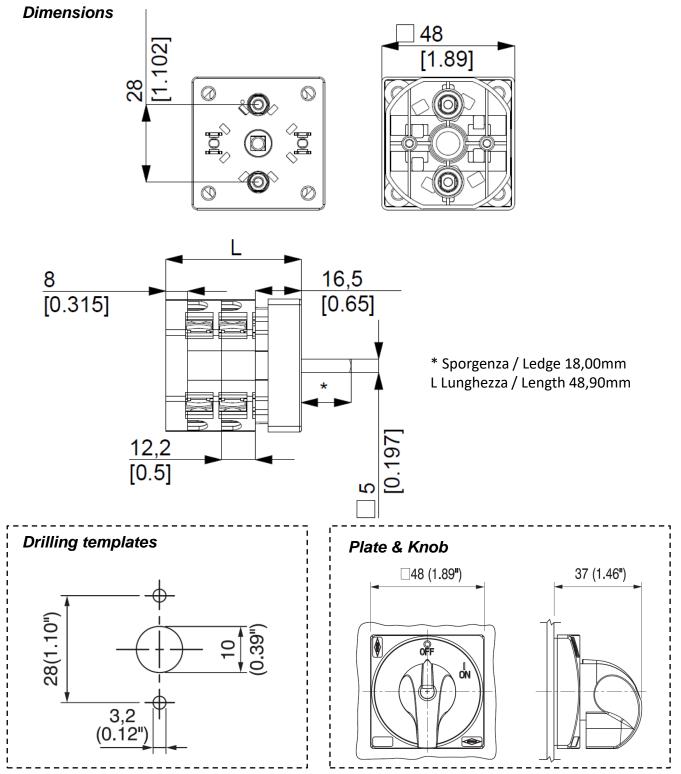
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measures in mm (in)



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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	А	16
Rated thermal current for enclosed switch		Ithe	А	16
Rated operation frequency			Hz	50/60
Power dissipation for each pole			W	0,27
Rated operating current				
AC-21A Switching resistive loads, including moderate overloads		le	A	12
AC-22A Switching of mixed resistive and inductive loads, including moderate overloads		le	A	12
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)	3 (9)
		400V	Kw (A)	4 (9)
		500V	Kw (A)	-
		690V	Kw (A)	-
AC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole		110V	Kw (A)	0,75 (8,5)
_ · · ·		230V	Kw (A)	1,5 (8,5)
AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole		230V	Kw (A)	2,2 (7)
Ac-3 Squiner cage motors, starting, switching on motors during running 3 phase - 3 pole		400V	Kw (A)	3,5 (7)
		500V	Kw (A)	- 5,5 (7)
		690V	Kw (A)	
C 2 Cauirral case materic starting suitishing off maters during summing 1 shace 2 sale				
AC-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole		110V	Kw (A)	0,37 (4)
		230V	Kw (A)	1,1 (6)
		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	4
		400V	A	3
Rated breaking capability in AC-23A (cos φ=0,45)		230V	A	72
		400V	А	72
Short circuit protection				
Rated short time withstand current		Icw	A	150
Rated short-circuit make capacity		Icm	А	-
Rated conditional short-circuit current		-	kA	4
Nith fuses class gG		500V	А	16
Technical data UL/CSA				
Rated operating voltage		Ue	UL/CSA V	600/ -
General use current		le	UL/CSA A	12
ihort circuit rating @600Vac			Arms	5000
use size (Class RK5, 600Vac, 200kA A.I.C.)			A	60
Rated operating power				
L phase - 2 pole		120V	Hp (A)	0,5 (9,8)
		240V	Hp (A)	1,5 (10)
s phase - 3 pole			Hp (A)	1,5 (6,9)
		200V	np (A)	
		240V	Hp (A)	2 (6,8)
		240V 480V	Hp (A) Hp (A)	2 (6,8) 3 (4,8)
Aechanical characteristics		240V	Hp (A)	2 (6,8)
		240V 480V 600V	Hp (A) Hp (A) Hp (A)	2 (6,8) 3 (4,8) 5 (6,1)
Panel tickness		240V 480V	Hp (A) Hp (A) Hp (A) mm	2 (6,8) 3 (4,8) 5 (6,1) 4
anel tickness		240V 480V 600V	Hp (A) Hp (A) Hp (A) mm Cycles x 10 ⁶	2 (6,8) 3 (4,8) 5 (6,1) 4 2
ranel tickness Aechanical life		240V 480V 600V	Hp (A) Hp (A) Hp (A) mm	2 (6,8) 3 (4,8) 5 (6,1) 4
anel tickness Aechanical life connection according to IEC 9471-1 and EN 50947-1		240V 480V 600V Max	Hp (A) Hp (A) Hp (A) mm Cycles x 10 ⁶ Cycles/hr	2 (6,8) 3 (4,8) 5 (6,1) 4 2 120
anel tickness Aechanical life connection according to IEC 9471-1 and EN 50947-1	With flexible wires	240V 480V 600V Max Min-Max	Hp (A) Hp (A) Hp (A) mm Cycles x 10 ⁶ Cycles/hr mm ²	2 (6,8) 3 (4,8) 5 (6,1) 4 2 120 2x1,5-4
anel tickness Aechanical life connection according to IEC 9471-1 and EN 50947-1		240V 480V 600V Max Min-Max Min-Max	Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr mm ² AWG	2 (6,8) 3 (4,8) 5 (6,1) 4 2 120 2x1,5-4 16-10
anel tickness Aechanical life connection according to IEC 9471-1 and EN 50947-1 connecting capability	With flexible wires	240V 480V 600V Max Min-Max	Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr mm ² AWG mm ²	2 (6,8) 3 (4,8) 5 (6,1) 4 2 120 2x1,5-4 16-10 2x1,5-6
anel tickness Aechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions		240V 480V 600V Max Min-Max Min-Max	Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr Cycles/hr Mm ² AWG mm ² Type	2 (6,8) 3 (4,8) 5 (6,1) 4 2 120 2×1,5-4 16-10 2×1,5-6 M3,5
Panel tickness Vechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions Screw tightening torque		240V 480V 600V Max Min-Max Min-Max	Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr mm ² AWG mm ²	2 (6,8) 3 (4,8) 5 (6,1) 4 2 120 2x1,5-4 16-10 2x1,5-6
Mechanical characteristics Panel tickness Vechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions Screw tightening torque Protection degree IEC 529 EN 60529		240V 480V 600V Max Min-Max Min-Max	Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr mm ² AWG mm ² Type Nm	2 (6,8) 3 (4,8) 5 (6,1) 4 2 120 2x1,5-4 16-10 2x1,5-6 M3,5
Panel tickness Vechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions Cornev tightening torque Protection degree IEC 529 EN 60529 Ferminals		240V 480V 600V Max Min-Max Min-Max	Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr Cycles/hr Mm ² AWG mm ² Type	2 (6,8) 3 (4,8) 5 (6,1) 4 2 120 2x1,5-4 16-10 2x1,5-6 M3,5
Panel tickness Vechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions Screw tightening torque Protection degree IEC 529 EN 60529		240V 480V 600V Max Min-Max Min-Max	Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr mm ² AWG mm ² Type Nm	2 (6,8) 3 (4,8) 5 (6,1) 4 2 120 2x1,5-4 16-10 2x1,5-6 M3,5 1
Panel tickness Vechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions Cornev tightening torque Protection degree IEC 529 EN 60529 Ferminals		240V 480V 600V Max Min-Max Min-Max	Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr mm ² AWG mm ² Type Nm	2 (6,8) 3 (4,8) 5 (6,1) 4 2 120 2x1,5-4 16-10 2x1,5-6 M3,5 1 20
Panel tickness Vechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions Connection terminal screw dimensions Connection degree IEC 529 EN 60529 Terminals Connection degree IEC 529 EN 60529 Terminals Connections Con		240V 480V 600V Max Min-Max Min-Max	Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr Mm ² AWG mm ² Type Nm	2 (6,8) 3 (4,8) 5 (6,1) 4 2 120 2x1,5-4 16-10 2x1,5-6 M3,5 1 20 20
Anel tickness Aechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions Cornection terminals screw dimensions Cornection degree IEC 529 EN 60529 Ferminals Combient conditions Deperating ambient temperature		240V 480V 600V Max Min-Max Min-Max	Hp (A) Hp (A) Hp (A) mm Cycles x 10 ⁶ Cycles/hr mm ² AWG mm ² Type Nm IP	2 (6,8) 3 (4,8) 5 (6,1) 4 2 120 2x1,5-4 16-10 2x1,5-6 M3,5 1

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