

 Bremas Ersce SpA

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ISO 9001 Certified Quality System

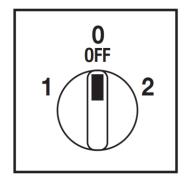
Cod. CR0120009RT4



(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



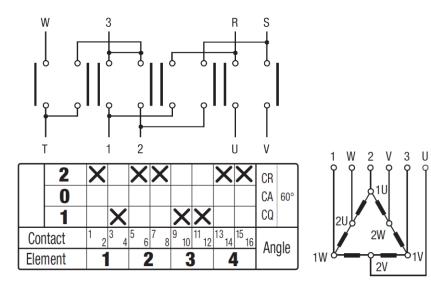
Technical characteristics: Body

- Changing swtch Dahlander 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

Electrical diagram and function



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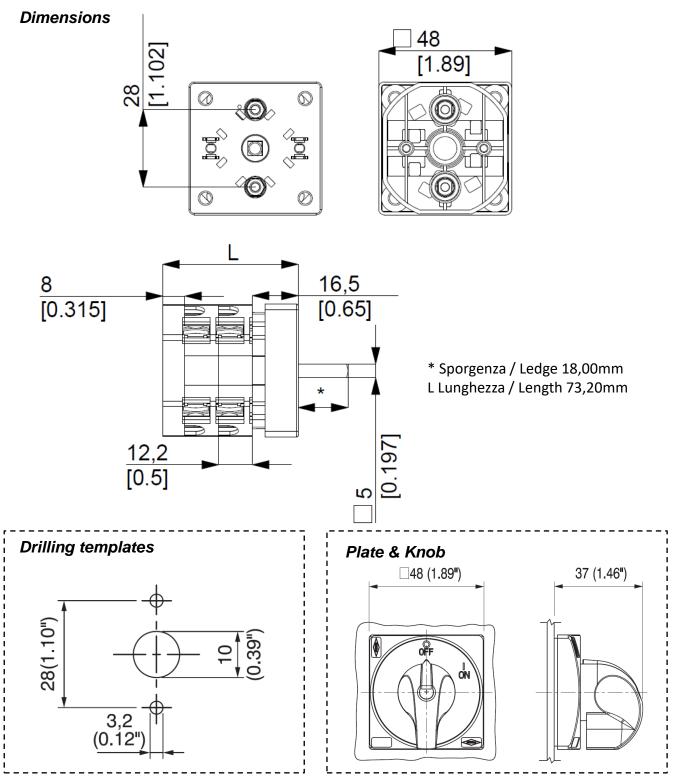
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measures in mm (in)



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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	А	12
AC-22A Switching of mixed resistive and inductive loads, including moderate overloads		le	А	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)
	400V	Kw (A)	3,5 (7)	
	500V	Kw (A)	-	
		690V	Kw (A)	-
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	А	4
		400V	А	3
Rated breaking capability in AC-23A (cos φ =0,45)		230V	А	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
With 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
Short circuit rating @600Vac			Arms	5000
use size (Class RK5, 600Vac, 200kA A.I.C.)			А	60
Rated operating power				
1 phase - 2 pole		120V	Hp (A)	0,5 (9,8)
		240V	Hp (A)	1,5 (10)
3 phase - 3 pole		200V	Hp (A)	1,5 (6,9)
- F F		2001		
		240V	Hp (A)	2 (6,8)
		240V	Hp (A)	2 (6,8)
		240V 480V	Hp (A) Hp (A)	2 (6,8) 3 (4,8)
Mechanical characteristics Panel tickness		240V 480V	Hp (A) Hp (A)	2 (6,8) 3 (4,8)
Mechanical characteristics Panel tickness		240V 480V 600V	Hp (A) Hp (A) Hp (A)	2 (6,8) 3 (4,8) 5 (6,1)
Mechanical characteristics Panel tickness		240V 480V 600V	Нр (А) Нр (А) Нр (А) тт	2 (6,8) 3 (4,8) 5 (6,1) 4
Mechanical characteristics		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
Mechanical characteristics Panel tickness Vechanical life Connection according to IEC 9471-1 and EN 50947-1	With flexible wires	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
Mechanical characteristics Panel tickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1	With flexible wires	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
Mechanical characteristics Panel tickness Vechanical 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
Mechanical characteristics Panel tickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability		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	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		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
Vechanical characteristics 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 x 10 ⁶ 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
Mechanical characteristics Panel tickness Wechanical 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) mm 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
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 Ferminals		240V 480V 600V Max Min-Max Min-Max	Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles x 10 ⁶ 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
Mechanical characteristics Panel tickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connecting capability Connection terminal screw dimensions Screw tightening torque Protection degree IEC 529 EN 60529 Terminals Ambient conditions		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
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 Terminals Ambient conditions Operating ambient temperature		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 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 20 -25 ÷ +55
Mechanical characteristics Panel tickness Vechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connecting capability Connection terminal screw dimensions Screw tightening torque Protection degree IEC 529 EN 60529 Terminals Ambient conditions		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

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