

Via castellazzo 9 - 20040 Cambiago (MI)
Tel +39 02 95651611 Fax +39 02 95651639
www.bremas.eu info@bremas.it

ISO 9001 Certified Quality System

### Cod. CR0320007RT6



(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



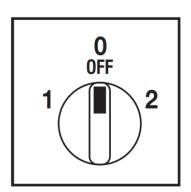
## Technical characteristics: Body

- Three-pole switch
- IP20 Protection degree
- Rated operational current le: 32A
- Rated thermal current Ith: 40A
- · Rated insulation voltage Ui: 690V
- Rear mounting
- Fixing with: 2 screw at 28mm vertical
  - 2 screw at 32mm horizontal
- 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.

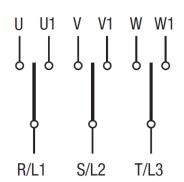
#### Technical characteristics: Knob

- Grey plate 67x67mm and black knob
- IP66 Protection degree
- · Fixing:- 2 screw at 28mm vertical
  - 2 screw at 32mm horizontal

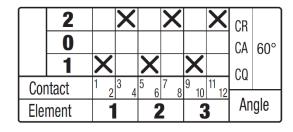
**Positions** 



# Electrical diagram



## Electrical function



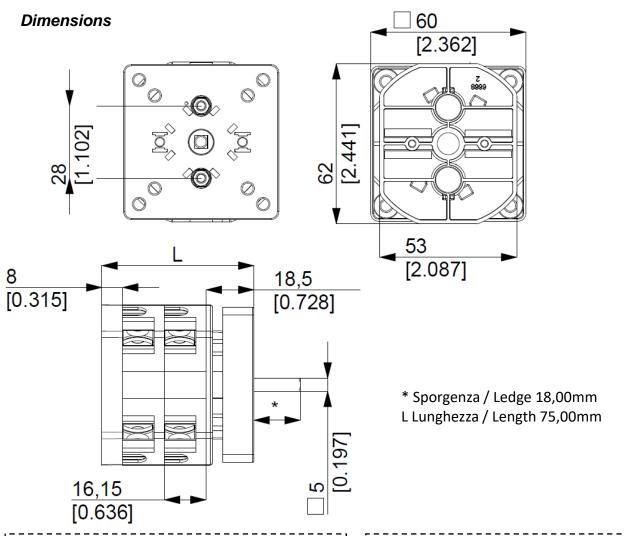
ISO 9001 Certified Quality System

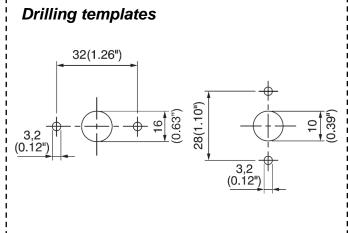
info@bremas.it

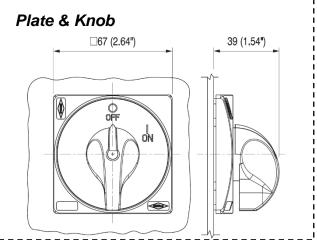
Cod. CR0320007RT6

measures in mm (in)

www.bremas.eu









### Bremas Ersce SpA

Via castellazzo 9 - 20040 Cambiago (Ml)
Tel +39 02 95651611 Fax +39 02 95651639
www.bremas.eu info@bremas.it

ISO 9001 Certified Quality System

#### Cod. CR0320007RT6

| echnical data IEC 947-3 EN 60947-3  |                     |         |                          |          |
|---|---------------------|---------|--------------------------|----------|
| ated insulation voltage   |                     | Ui      | V                        | 690      |
| ated operating voltage  |                     | Ue      | V                        | 690      |
| ited impulse withstand voltage  |                     | Uimp    | kV                       | 6        |
|   |                     | Ith     |                          | 40       |
| ated thermal current for open switch  |                     |         | A                        |          |
| ated thermal current for enclosed switch  |                     | Ithe    | A                        | 40       |
| ated operation frequency  |                     |         | Hz                       | 50/60    |
| ower dissipation for each pole  |                     |         | W                        | 1        |
| ated operating current  |                     |         |                          |          |
| C-21A Switching resistive loads, including moderate overloads                             |                     | le      | A                        | 32       |
| C-22A Switching of mixed resistive and inductive loads, including moderate overloads      |                     | le      | Α                        | 25       |
| C-20A Connecting and disconnecting under no loads conditions                              |                     |         |                          | -        |
| nted operating power  |                     |         |                          |          |
| AC-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole          |                     | 230V    | Kw (A)                   | 8,5 (27) |
|   |                     | 400V    | Kw (A)                   | 15 (27)  |
|   |                     | 500V    | Kw (A)                   | 15 (22)  |
|   |                     | 690V    | Kw (A)                   | 15 (16)  |
| AC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole          |                     | 110V    | Kw (A)                   | 2,2 (25) |
| AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole |                     |         |                          |          |
|   |                     | 230V    | Kw (A)                   | 3,7 (20) |
|   |                     | 230V    | Kw (A)                   | 5,5 (17) |
|   |                     | 400V    | Kw (A)                   | 10 (17)  |
|   |                     | 500V    | Kw (A)                   | 10 (14)  |
|   |                     | 690V    | Kw (A)                   | 10 (10)  |
| AC-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole |                     | 110V    | Kw (A)                   | 1,5 (17) |
|   |                     | 230V    | Kw (A)                   | 3 (17)   |
|   |                     | 400V    | Kw (A)                   | -        |
| C-4 Squirrel cage motors: starting, pluggign, inching                                     |                     | 230V    | Kw (A)                   | 2,2 (17) |
| 5,1 355, 5  |                     | 400V    | Kw (A)                   | 3 (5,5)  |
| AC-15 Control of a.c electromagnetic loads  |                     | 230V    | A                        | 8        |
|   |                     | 400V    | A                        | 6        |
| ated breaking capability in AC-23A (cos φ=0,45)   |                     | 230V    | A                        | 216      |
| red breaking capability in No 25M (cos \$\phi = 0,45)                                     |                     | 400V    | A                        | 216      |
| nort circuit protection   |                     | 4001    |                          |          |
| ated short time withstand current   |                     | lcw     | A                        | 400      |
|   |                     |         | A                        | 2000     |
| ated short-circuit make capacity  |                     | Icm     |                          |          |
| ated conditional short-circuit current  |                     | -       | kA                       | 10       |
| ith fuses class gG  |                     | 500V    | A                        | 35       |
| echnical data UL/CSA  |                     |         |                          |          |
| ated operating voltage  |                     | Ue      | UL/CSA V                 | 600/600  |
| eneral use current  |                     | le      | UL/CSA A                 | 35/25    |
| ort circuit rating @600Vac  |                     |         | Arms                     | 5000     |
| ise size (Class RK5, 600Vac, 200kA A.I.C.)  |                     |         | Α                        | 60       |
| ted operating power   |                     |         |                          |          |
| phase - 2 pole  |                     | 120V    | Hp (A)                   | 2 (24)   |
|   |                     | 240V    | Hp (A)                   | 3 (17)   |
| B phase - 3 pole  |                     | 200V    | Hp (A)                   | 5 (17,5) |
|   |                     | 240V    | Hp (A)                   | 7,5 (22) |
|   |                     | 480V    | нр (A)<br>Нр (A)         | 10 (14)  |
|   |                     |         |                          |          |
| Aechanical characteristics  |                     | 600V    | Hp (A)                   | 15 (17)  |
|   |                     |         |                          | Ι .      |
| nel tickness  |                     | Max     | mm                       | 4        |
| echanical life  |                     |         | Cycles x 10 <sup>6</sup> | 1,5      |
|   |                     |         | Cycles/hr                | 120      |
| nnection according to IEC 9471-1 and EN 50947-1   |                     |         |                          |          |
| nnecting capability   | With flexible wires | Min-Max | mm²                      | 2x2,5-10 |
|   |                     | Min-Max | AWG                      | 14-8     |
|   | With solid wires    | Min-Max | mm²                      | 2x2,5-16 |
| nnection terminal screw dimensions  |                     |         | Туре                     | M4       |
| rew tightening torque   |                     |         | Nm                       | 1,7      |
| otection degree IEC 529 EN 60529  |                     |         | 14111                    | 1 1,1    |
|   |                     |         | ID.                      | 30       |
| rminals   |                     |         | IP                       | 20       |
| nbient conditions   |                     |         |                          |          |
| perating ambient temperature  |                     |         | °C                       | -25 ÷ +5 |
| prage ambient temprature  |                     |         | °C                       | -30 ÷ +7 |
| ithstand to constant humid according to IEC 60068   |                     |         |                          | 2-78     |
| tristand to constant numid according to IEC 60068   |                     |         |                          |          |

© 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 that the features described may derive legal responsibilities that extend beyond the "Terms and Conditions" of Bremas Ersce. The customer / user is not absolved from the obligation to examine our information and recommendations and the relevant technical regulations before using the products for their own purposes.