

ROTARY CAM SWITCH 7GN SERIES, ON-OFF SWITCH 3 POLES 32A, FOR REAR MOUNTING

WITH RED/YELLOW HANDLE PADLOCKABLE IN 0, DOOR COUPLING AND PROTECTION

COVERS, FRONT PLATE 65X65MM

| Product type designation   Figure     | Product designation      |                                  |                  |             | Rotary cam switches  |
|--|--------------------------|----------------------------------|------------------|-------------|--|
| Note   1970    |                          |                                  |                  |             |  |
| N° of elements   2   098 - Rear mounting with red/yellow handle padiockable in 0, door coupling and protection covers   16C/EN   16C/EN  |                          |                                  |                  |             |  |
| Mounting form   Mounting for | N° of elements           |                                  |                  |             |  |
| Rated insulation voltage Ui  | Mounting form            |                                  |                  |             | mounting with red/yellow handle padlockable in 0, door coupling and protection |
| Conventional free air thermal current lith   |                          |                                  |                  |             |  |
| Rated impulse withstand voltage Uimp   | Rated insulation voltag  | e Ui                             |                  |             |  |
| Rated impulse withstand voltage Ulimp  |                          |                                  |                  |             |  |
| Conventional free air thermal current lth  | B ( 1)   1   21          | 1 6 18                           | UL/CSA           |             | -  |
| Rated operational voltage  | -                        |                                  |                  | kV          | 6  |
| Rated operational voltage   V  | Conventional free air tr | nermal current ith               | IEO/EN           | ۸           | 22   |
| Rated operational voltage   V  |                          |                                  |                  |             |  |
| Rated operational impulse voltage   Rated operational impulse voltage   Rated operational impulse voltage   Rated operational impulse size for short-circuit protection In (gG)   10kA   | Pated operational volts  | 200                              | UL/CSA           |             |  |
| Maximum fuse size for short-circuit protection In (gG)  10kA A 32 15kA A 32 25kA A 32 50kA A 32  Rated short time current Icw  1s kA 800  Conductivity  1s kA 800  Conductivity  Operational current Ie IEC/EN  AC1/AC21A  AC1/AC21A  AC15  110V A 25 220/230V A 20 380/40V A 10 660/690V A 2  Rated operational power in AC  Three-phase AC-3  Rated operational power in AC  Three-phase AC-3  110V kW 11  Single-phase AC-3  110V kW 11  Single-phase AC-3  110V kW 11  Single-phase AC-3  220/230V kW 11  Three-phase AC-3  220/230V kW 11  Single-phase AC-3  110V kW 2.2 220/230V kW 6.5  Three-phase AC-3  220/230V kW 6.5  |                          |                                  |                  |             |  |
| 10kA   |                          |                                  |                  | IX V        |  |
| 15kA   | Maximum ruse size for    | short circuit protection in (gG) | 10kA             | Δ           | 32   |
| Rated short time current lcw   |                          |                                  |                  |             |  |
| Soka   A   32  |                          |                                  |                  |             |  |
| Rated short time current low   |                          |                                  |                  |             |  |
| 1s   | Rated short time curre   | nt Icw                           |                  |             |  |
| Conductivity   |                          |                                  | 1s               | kA          | 800  |
| AC1/AC21A  | Conductivity             |                                  |                  |             | 10/5 mA/V  |
| A 32  AC15  110V A 25 220/230V A 20 380/400V A 10 660/690V A 2  Rated operational power in AC Three-phase AC-3  220/230V kW 7.5 380/440V kW 11 500/690V kW 11  Single-phase AC-3  110V kW 2.2 220/230V kW 4 380/440V kW 4 380/440V kW 6.5  Three-phase AC23A  220/230V kW 8 380/440V kW 15 500/690V kW 15  |                          | IEC/EN                           |                  |             |  |
| AC15  110V A 25 220/230V A 20 380/400V A 10 660/690V A 2  Rated operational power in AC Three-phase AC-3  220/230V kW 7.5 380/440V kW 11 500/690V kW 11  Single-phase AC-3  110V kW 2.2 220/230V kW 4 380/440V kW 6.5  Three-phase AC23A  220/230V kW 4 380/440V kW 15 500/690V kW 15 500/690V kW 15   |                          | AC1/AC21A                        |                  |             |  |
| 110V   |                          |                                  |                  | Α           | 32   |
| 220/230V   |                          | AC15                             |                  |             | _  |
| Rated operational power in AC   Three-phase AC-3     220/230V   kW   7.5     380/440V   kW   11     500/690V   kW   11   |                          |                                  | 110V             | Α           | 25   |
| Rated operational power in AC  Three-phase AC-3  220/230V kW 7.5 380/440V kW 11 500/690V kW 11  Single-phase AC-3  110V kW 2.2 220/230V kW 4 380/440V kW 6.5  Three-phase AC23A  220/230V kW 8 380/440V kW 8 380/440V kW 15 500/690V kW 15 500/690V kW 18.5  |                          |                                  | 220/230V         | Α           |  |
| Rated operational power in AC Three-phase AC-3  220/230V kW 7.5 380/440V kW 11 500/690V kW 11  Single-phase AC-3  110V kW 2.2 220/230V kW 4 380/440V kW 6.5  Three-phase AC23A  220/230V kW 8 380/440V kW 15 500/690V kW 15 500/690V kW 18.5   |                          |                                  |                  |             |  |
| Three-phase AC-3  220/230V kW 7.5 380/440V kW 11 500/690V kW 11  Single-phase AC-3  110V kW 2.2 220/230V kW 4 380/440V kW 6.5  Three-phase AC23A  220/230V kW 8 380/440V kW 15 500/690V kW 18.5  |                          |                                  | 660/690V         | Α           | 2  |
| 220/230V kW 7.5 380/440V kW 11 500/690V kW 11  Single-phase AC-3  110V kW 2.2 220/230V kW 4 380/440V kW 6.5  Three-phase AC23A  220/230V kW 8 380/440V kW 15 500/690V kW 18.5  | Rated operational pow    |                                  |                  |             |  |
| 380/440V kW 11 500/690V kW 11  Single-phase AC-3  110V kW 2.2 220/230V kW 4 380/440V kW 6.5  Three-phase AC23A  220/230V kW 8 380/440V kW 15 500/690V kW 18.5  |                          | Three-phase AC-3                 | 000/000          |             | 7.5  |
| Single-phase AC-3   110V   kW   2.2   220/230V   kW   4   380/440V   kW   6.5     500/690V   kW   15   500/690V   kW   18.5  |                          |                                  |                  |             |  |
| Single-phase AC-3  110V kW 2.2 220/230V kW 4 380/440V kW 6.5  Three-phase AC23A  220/230V kW 8 380/440V kW 15 500/690V kW 18.5   |                          |                                  |                  |             |  |
| 110V kW 2.2 220/230V kW 4 380/440V kW 6.5  Three-phase AC23A  220/230V kW 8 380/440V kW 15 500/690V kW 18.5  |                          | Single phase AC 2                | 500/690 <i>V</i> | KVV         |  |
| 220/230V kW 4 380/440V kW 6.5  Three-phase AC23A  220/230V kW 8 220/230V kW 8 380/440V kW 15 500/690V kW 18.5  |                          | Single-phase AC-3                | 110\/            | <i>ا</i> ۸۸ | 2.2  |
| 380/440V kW 6.5  Three-phase AC23A  220/230V kW 8  380/440V kW 15  500/690V kW 18.5  |                          |                                  |                  |             |  |
| Three-phase AC23A  220/230V kW 8  380/440V kW 15  500/690V kW 18.5   |                          |                                  |                  |             |  |
| 220/230V kW 8<br>380/440V kW 15<br>500/690V kW 18.5  |                          | Three-phase AC23A                |                  |             |  |
| 380/440V kW 15<br>500/690V kW 18.5   |                          | · ·                              | 220/230V         | kW          | 8  |
| 500/690V kW 18.5   |                          |                                  |                  |             |  |
| Single-phase AC23A   |                          |                                  | 500/690V         | kW          | 18.5   |
|  |                          | Single-phase AC23A               |                  |             |  |



**ENERGY AND AUTOMATION** 

7GN3207O98

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COVERS, FRONT PLATE 65X65MM

|   |  | 110V   | kW   | 2.2  |
|---|--|--|--|--|
|   |  | 220/230V   | kW   | 4  |
|   |  | 380/440V   | kW   | 7.5  |
| Rated operational cur                     | rent in DC   | 000/440 V  | IX V V   | 7.0  |
| Nateu operational cui                     |  |  |  |  |
|   | DC21A  |  |  |  |
|   |  | 48V  | Α  | 32   |
|   |  | 60V  | Α  | 32   |
|   |  | 110V   | Α  | 6  |
|   |  | 220V   | Α  | 0.9  |
|   | DC23A (poles in series)  |  |  |  |
|   | DOZOA (poles ili selles)   | 241/   | ۸  | 22 (4)   |
|   |  | 24V  | Α  | 32 (1)   |
|   |  | 48V  | Α  | 32 (2)   |
|   |  | 60V  | Α  | 32 (3)   |
|   |  | 110V   | Α  | 15 (3)   |
|   |  | 220V   | Α  | 12 (4)   |
|   | DC13   |  |  |  |
|   |  | 24V  | Α  | 32   |
|   |  |  |  |  |
|   |  | 48V  | A  | 25   |
|   |  | 60V  | Α  | 16   |
|   |  | 110V   | Α  | 3  |
|   |  | 220V   | Α  | 0.5  |
| Power dissipation                         |  |  | W  | 1.5  |
| Mechanical features                       |  |  |  |  |
| Terminals screw                           |  |  |  | M4   |
|   | ( !  |  | NI   |  |
| Tightening torque for t                   | terminais max  |  | Nm   | 1.2  |
| Conductor size                            |  |  |  |  |
|   | AWG - Rigid cable  |  |  |  |
|   |  |  | 41440  | 4.0  |
|   |  | min  | AWG  | 10   |
|   |  | min<br>Max   | AWG<br>AWG   | 16<br>8  |
|   | AWG - Flovible cable   | min<br>Max   | AWG  | 8  |
|   | AWG - Flexible cable   | Max  | AWG  | 8  |
|   | AWG - Flexible cable   | Max<br>min   | AWG  | 16   |
|   |  | Max  | AWG  | 8  |
|   | AWG - Flexible cable  Conductor size (IEC) - Flexible cable  | Max<br>min   | AWG  | 16   |
|   |  | Max<br>min   | AWG  | 16   |
|   |  | Max<br>min<br>Max  | AWG<br>AWG   | 16<br>10   |
|   | Conductor size (IEC) - Flexible cable  | Max<br>min<br>Max<br>min                                     | AWG<br>AWG<br>AWG                                  | 16<br>10<br>1.5  |
|   |  | Max<br>min<br>Max<br>min<br>Max                              | AWG<br>AWG<br>AWG<br>mm²<br>mm²                    | 16<br>10<br>1.5<br>4   |
|   | Conductor size (IEC) - Flexible cable  | Max min Max min Max  | AWG<br>AWG<br>AWG<br>mm²<br>mm²                    | 16<br>10<br>1.5<br>4   |
| Machaelad                                 | Conductor size (IEC) - Flexible cable  | Max<br>min<br>Max<br>min<br>Max                              | AWG AWG AWG  mm² mm²  mm²  mm²                     | 16<br>10<br>1.5<br>4<br>1.5<br>6   |
| Mechanical life                           | Conductor size (IEC) - Flexible cable  | Max min Max min Max  | AWG<br>AWG<br>AWG<br>mm²<br>mm²                    | 16<br>10<br>1.5<br>4   |
| UL technical data                         | Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  | Max min Max min Max  | AWG AWG AWG  mm² mm²  mm²  mm²                     | 16<br>10<br>1.5<br>4<br>1.5<br>6   |
|   | Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  | Max min Max min Max  | AWG AWG AWG  mm² mm²  mm²  mm²                     | 16<br>10<br>1.5<br>4<br>1.5<br>6   |
| UL technical data                         | Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  t-on-line control   | Max min Max min Max  | AWG AWG AWG  mm² mm²  mm²  mm²                     | 16<br>10<br>1.5<br>4<br>1.5<br>6   |
| UL technical data                         | Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  | Max min Max min Max min Max                                  | AWG AWG AWG  mm² mm² cycles                        | 16<br>10<br>1.5<br>4<br>1.5<br>6<br>5x10 <sup>6</sup>                                  |
| UL technical data                         | Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  t-on-line control   | Max min Max min Max min Max                                  | AWG AWG AWG  mm² mm² cycles                        | 8<br>16<br>10<br>1.5<br>4<br>1.5<br>6<br>5x10 <sup>6</sup>                             |
| UL technical data                         | Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  t-on-line control   | Max min Max min Max min Max  120V 240V                       | AWG AWG AWG  mm² mm² cycles                        | 16<br>10<br>1.5<br>4<br>1.5<br>6<br>5x10 <sup>6</sup>                                  |
| UL technical data                         | Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  t-on-line control   | Max min Max min Max  min Max  120V 240V 480V                 | AWG AWG AWG  mm² mm² cycles  HP HP                 | 16<br>10<br>1.5<br>4<br>1.5<br>6<br>5x10 <sup>6</sup>                                  |
| UL technical data                         | Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  t-on-line control for three-phase motor                         | Max min Max min Max min Max  120V 240V                       | AWG AWG AWG  mm² mm² cycles                        | 16<br>10<br>1.5<br>4<br>1.5<br>6<br>5x10 <sup>6</sup>                                  |
| UL technical data                         | Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  t-on-line control   | Max min Max min Max  min Max  120V 240V 480V 600V            | AWG AWG AWG  mm² mm² cycles  HP HP                 | 16<br>10<br>1.5<br>4<br>1.5<br>6<br>5x10 <sup>6</sup>                                  |
| UL technical data                         | Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  t-on-line control for three-phase motor                         | Max min Max min Max  min Max  120V 240V 480V                 | AWG AWG AWG  mm² mm² cycles  HP HP                 | 16<br>10<br>1.5<br>4<br>1.5<br>6<br>5x10 <sup>6</sup>                                  |
| UL technical data                         | Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  t-on-line control for three-phase motor                         | Max min Max min Max  min Max  120V 240V 480V 600V            | AWG AWG AWG  mm² mm² mm² cycles                    | 16<br>10<br>1.5<br>4<br>1.5<br>6<br>5x10 <sup>6</sup><br>5<br>10<br>15<br>15           |
| UL technical data Motor power for direct  | Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  t-on-line control for three-phase motor                         | Max min Max min Max  min Max  120V 240V 480V 600V            | AWG AWG AWG  mm² mm² cycles  HP HP HP HP           | 16<br>10<br>1.5<br>4<br>1.5<br>6<br>5x10 <sup>6</sup><br>5<br>10<br>15                 |
| UL technical data  Motor power for direct | Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  t-on-line control for three-phase motor                         | Max min Max min Max  min Max  120V 240V 480V 600V            | AWG AWG AWG  mm² mm² cycles  HP HP HP HP           | 16<br>10<br>1.5<br>4<br>1.5<br>6<br>5x10 <sup>6</sup><br>5<br>10<br>15<br>15           |
| UL technical data Motor power for direct  | Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  t-on-line control for three-phase motor  for single-phase motor | Max min Max min Max  min Max  120V 240V 480V 600V            | AWG AWG AWG  mm² mm² cycles  HP HP HP HP           | 16<br>10<br>1.5<br>4<br>1.5<br>6<br>5x10 <sup>6</sup><br>5<br>10<br>15<br>15           |
| UL technical data  Motor power for direct | Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  t-on-line control for three-phase motor                         | Max min Max min Max  min Max  120V 240V 480V 600V  120V 240V | AWG AWG AWG mm² mm² mm² cycles  HP HP HP HP        | 16<br>10<br>1.5<br>4<br>1.5<br>6<br>5x10 <sup>6</sup><br>5<br>10<br>15<br>15           |
| UL technical data  Motor power for direct | Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  t-on-line control for three-phase motor  for single-phase motor | Max min Max min Max  min Max  120V 240V 480V 600V            | AWG AWG AWG  mm² mm² mm² cycles  HP HP HP HP HP HP | 16<br>10<br>1.5<br>4<br>1.5<br>6<br>5x10 <sup>6</sup><br>5<br>10<br>15<br>15<br>2<br>5 |
| UL technical data  Motor power for direct | Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  t-on-line control for three-phase motor  for single-phase motor | Max min Max min Max  min Max  120V 240V 480V 600V  120V 240V | AWG AWG AWG mm² mm² mm² cycles  HP HP HP HP        | 16<br>10<br>1.5<br>4<br>1.5<br>6<br>5x10 <sup>6</sup><br>5<br>10<br>15<br>15           |



**ENERGY AND AUTOMATION** 

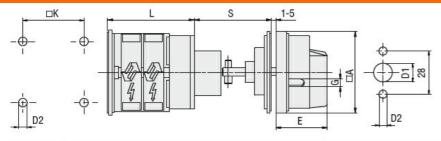
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## Storage temperature

| min | °C | -40 |
|-----|----|-----|
| max | °C | +70 |

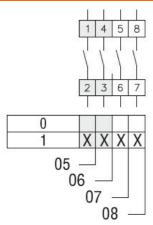
| Resistance & Protection |      |
|-------------------------|------|
| Frontal IP degree       | IP40 |
| Terminals IP degree     | IP00 |

## **Dimensions**



| Carion |    | Dimensions |    |      |   |    | L     |      |      |      |       |
|--------|----|------------|----|------|---|----|-------|------|------|------|-------|
| Series | □A | D1         | D2 | Е    | G | □K | S     | 1    | 2    | 3    | 12    |
| 7GN12  | 65 | 12         | 5  | 34.2 | 5 | 36 | 45-55 | 41.1 | 50.8 | 60.5 | 147.8 |
| 7GN20  | 65 | 12         | 5  | 34.2 | 5 | 36 | 45-55 | 41.1 | 50.8 | 60.5 | 147.8 |
| 7GN25  | 65 | 14         | 5  | 38   | 6 | 48 | 45-55 | 51.5 | 66.6 | 81.7 | 217.6 |
| 7GN40  | 65 | 14         | 5  | 38   | 6 | 48 | 45-55 | 51.5 | 66.6 | 81.7 | 217.6 |
| 7GN63  | 65 | 14         | 6  | 38   | 6 | 68 | 45-55 | 57.3 | 75.4 | 93.5 | 256.4 |

## Wiring diagrams



## Certifications and compliance

Compliance

CSA C22.2 n° 14

IEC/EN/BS 60947-1

IEC/EN/BS 60947-3

IEC/EN/BS 60947-5-1

UL60947-4-1

Certificates

cCSAus

EAC

UL

ETIM classification

ETIM 8.0

EC001029 -Selector switch, complete