



# ROTARY CAM SWITCH 7GN SERIES, MULTI-STEP 1-2-3, 2 POLES 20A, FOR REAR MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

| Product designation                                    |           |     | Rotary cam switches               |
|--|-----------|-----|-----------------------------------|
| Product type designation                               |           |     | 7GN20                             |
| General characteristics                                |           |     |                                   |
| Switching diagram                                      |           |     | 86 - Multi-step 1-<br>2-3 2 poles |
| N° of elements   |           |     | 3                                 |
|  |           |     | O - Rear                          |
| Mounting form  |           |     | mounting with<br>black handle     |
| Contact characteristics                                |           |     | black Hariaic                     |
| Rated insulation voltage Ui                            |           |     |                                   |
|  | IEC/EN    | V   | 690                               |
|  | UL/CSA    | V   | 600                               |
| Rated impulse withstand voltage Uimp                   |           | kV  | 6                                 |
| Conventional free air thermal current Ith              |           |     |                                   |
|  | IEC/EN    | Α   | 20                                |
|  | UL/CSA    | Α   | 20                                |
| Rated operational voltage                              |           | V   | 480                               |
| Rated operational impulse voltage                      |           | kV  | 4                                 |
| Maximum fuse size for short-circuit protection In (gG) |           |     |                                   |
|  | 10kA      | Α   | 20                                |
|  | 15kA      | A   | 16                                |
| Date delications accomment law                         | 25kA      | A   | 16                                |
| Rated short time current Icw                           | 4.0       | L.Λ | 250                               |
| Conductivity   | 1s        | kA  | 250<br>10/5 mA/V                  |
| Operational current le IEC/EN                          |           |     | 10/5 IIIA/ V                      |
| AC1/AC21A  |           |     |                                   |
| NO II/NOZIA  |           | Α   | 20                                |
| AC15   |           |     |                                   |
| ,10.10   | 110V      | Α   | 10                                |
|  | 220/230V  | Α   | 8                                 |
|  | 380/400V  | Α   | 6                                 |
|  | 660/690V  | Α   | 1.5                               |
| Rated operational power in AC                          |           |     |                                   |
| Three-phase AC-3                                       |           |     |                                   |
|  | 220/230V  | kW  | 3                                 |
|  | 380/440V  | kW  | 5.5                               |
| -  | 500/690V  | kW  | 5.5                               |
| Single-phase AC-3                                      | 4407      |     | 0.0                               |
|  | 110V      | kW  | 0.8                               |
|  | 220/230V  | kW  | 2.2                               |
| Three-phase AC23A                                      | 380/440V  | kW  | 3                                 |
| Tillee-pilase AC23A                                    | 220/230V  | kW  | 5                                 |
|  | 380/440V  | kW  | 5<br>7.5                          |
|  | 500/690V  | kW  | 7.5<br>7.5                        |
| Single-phase AC23A                                     | 330/030 V |     | 7.0                               |
| Siligio pilaso /1020/1                                 | 110V      | kW  | 0.8                               |
|  | 220/230V  | kW  | 2.5                               |
|  | 380/440V  | kW  | 3.7                               |





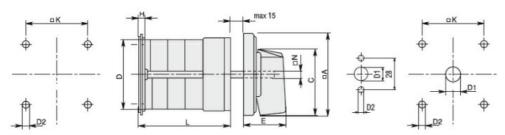
# ROTARY CAM SWITCH 7GN SERIES, MULTI-STEP 1-2-3, 2 POLES 20A, FOR REAR MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

|  | DC04A   |   |                                |  |  |
|--|---|---|--------------------------------|--|--|
|  | DC21A   | 40\/  | ۸                              | 20   |  |
|  |   | 48V   | A                              | 20   |  |
|  |   | 60V   | A                              | 20   |  |
|  |   | 110V  | Α                              | 4  |  |
|  |   | 220V  | Α                              | 0.6  |  |
|  |   | 440V  | Α                              | 0.25   |  |
|  | DC23A (poles in series)   |   |                                |  |  |
|  |   | 24V   | Α                              | 20 (1)   |  |
|  |   | 48V   | Α                              | 20 (2)   |  |
|  |   | 60V   | Α                              | 20 (3)   |  |
|  |   | 110V  | Α                              | 10 (3)   |  |
|  |   | 220V  | Α                              | 8 (4)  |  |
|  | DC13  |   |                                |  |  |
|  |   | 24V   | Α                              | 20   |  |
|  |   | 48V   | Α                              | 16   |  |
|  |   | 60V   | Α                              | 12   |  |
|  |   | 110V  | Α                              | 1  |  |
|  |   | 220V  | Α                              | 0.4  |  |
|  |   | 440V  | Α                              | 0.15   |  |
| Power dissipation                          |   |   | W                              | 0.8  |  |
| Mechanical features                        |   |   |                                | 0.0  |  |
| Terminals screw                            |   |   |                                | M3   |  |
| Tightening torque for te                   | arminals may  |   | Nm                             | 0.5  |  |
| Conductor size                             | errilliais max  |   | INIII                          | 0.5  |  |
| Conductor Size                             | AWC Bigid poble   |   |                                |  |  |
|  | AWG - Rigid cable   |   | AWG                            | 20   |  |
|  |   | min   |                                | 20   |  |
|  | AMO EL III III  | Max   | AWG                            | 12   |  |
|  | AWG - Flexible cable  |   |                                |  |  |
|  |   | min   | AWG                            | 20   |  |
|  |   | Max   | AWG                            | 14   |  |
|  | Conductor size (IEC) - Flexible cable   |   |                                |  |  |
|  |   |   |                                |  |  |
|  |   | min   | mm²                            | 0.5  |  |
|  |   | min<br>Max                                  | mm²<br>mm²                     | 0.5<br>2.5   |  |
|  | Conductor size (IEC) - Rigid cable  |   |                                |  |  |
|  | Conductor size (IEC) - Rigid cable  |   |                                | 0.5  |  |
|  | Conductor size (IEC) - Rigid cable  | Max   | mm²                            | 2.5  |  |
| Mechanical life                            | Conductor size (IEC) - Rigid cable  | Max<br>min                                  | mm²                            | 0.5  |  |
| UL technical data                          |   | Max<br>min                                  | mm²<br>mm²<br>mm²              | 2.5<br>0.5<br>2.5  |  |
|  |   | Max<br>min                                  | mm²<br>mm²<br>mm²              | 2.5<br>0.5<br>2.5  |  |
| UL technical data                          |   | Max<br>min                                  | mm²<br>mm²<br>mm²              | 2.5<br>0.5<br>2.5  |  |
| UL technical data                          | -on-line control  | Max<br>min                                  | mm²<br>mm²<br>mm²              | 2.5<br>0.5<br>2.5  |  |
| UL technical data                          | -on-line control  | Max<br>min<br>Max                           | mm²<br>mm²<br>mm²<br>cycles    | 2.5<br>0.5<br>2.5<br>5x10 <sup>6</sup>                                       |  |
| UL technical data                          | -on-line control  | Max<br>min<br>Max                           | mm²<br>mm²<br>mm²<br>cycles    | 2.5<br>0.5<br>2.5<br>5x10 <sup>6</sup>                                       |  |
| UL technical data                          | -on-line control  | Max<br>min<br>Max<br>120V<br>240V           | mm² mm² cycles                 | 2.5<br>0.5<br>2.5<br>5x10 <sup>6</sup><br>1.5                                |  |
| UL technical data                          | -on-line control<br>for three-phase motor   | Max<br>min<br>Max<br>120V<br>240V<br>480V   | mm²<br>mm²<br>cycles           | 2.5<br>0.5<br>2.5<br>5x10 <sup>6</sup><br>1.5<br>3<br>7.5                    |  |
| UL technical data                          | -on-line control  | Max min Max  120V 240V 480V 600V            | mm²<br>mm²<br>cycles           | 2.5<br>0.5<br>2.5<br>5x10 <sup>6</sup><br>1.5<br>3<br>7.5<br>10              |  |
| UL technical data                          | -on-line control<br>for three-phase motor   | Max min Max  120V 240V 480V 600V            | mm² mm² cycles  HP HP HP HP    | 2.5<br>0.5<br>2.5<br>5x10 <sup>6</sup><br>1.5<br>3<br>7.5<br>10              |  |
| UL technical data Motor power for direct-  | -on-line control<br>for three-phase motor   | Max min Max  120V 240V 480V 600V            | mm² mm² cycles  HP HP HP       | 2.5<br>0.5<br>2.5<br>5x10 <sup>6</sup><br>1.5<br>3<br>7.5<br>10              |  |
| UL technical data  Motor power for direct- | -on-line control<br>for three-phase motor   | Max min Max  120V 240V 480V 600V            | mm² mm² cycles  HP HP HP HP    | 2.5<br>0.5<br>2.5<br>5x10 <sup>6</sup><br>1.5<br>3<br>7.5<br>10              |  |
| UL technical data Motor power for direct-  | -on-line control for three-phase motor  for single-phase motor                        | Max min Max  120V 240V 480V 600V            | mm² mm² cycles  HP HP HP HP    | 2.5<br>0.5<br>2.5<br>5x10 <sup>6</sup><br>1.5<br>3<br>7.5<br>10              |  |
| UL technical data  Motor power for direct- | -on-line control<br>for three-phase motor   | Max min Max  120V 240V 480V 600V  120V 240V | mm² mm² cycles  HP HP HP HP HP | 2.5 0.5 2.5 5x10 <sup>6</sup> 1.5 3 7.5 10 0.75 2                            |  |
| UL technical data  Motor power for direct- | -on-line control for three-phase motor  for single-phase motor                        | Max min Max  120V 240V 480V 600V  120V 240V | mm² mm² cycles  HP HP HP HP HP | 2.5<br>0.5<br>2.5<br>5x10 <sup>6</sup><br>1.5<br>3<br>7.5<br>10<br>0.75<br>2 |  |
| UL technical data  Motor power for direct- | -on-line control for three-phase motor  for single-phase motor  Operating temperature | Max min Max  120V 240V 480V 600V  120V 240V | mm² mm² cycles  HP HP HP HP HP | 2.5 0.5 2.5 5x10 <sup>6</sup> 1.5 3 7.5 10 0.75 2                            |  |
| UL technical data  Motor power for direct- | -on-line control for three-phase motor  for single-phase motor                        | Max min Max  120V 240V 480V 600V  120V 240V | mm² mm² cycles  HP HP HP HP HP | 2.5<br>0.5<br>2.5<br>5x10 <sup>6</sup><br>1.5<br>3<br>7.5<br>10<br>0.75<br>2 |  |



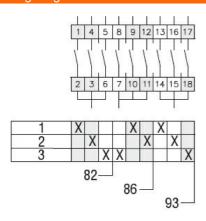
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Resistance & Protection
Frontal IP degree
IP40
Terminals IP degree
IP00
Dimensions



| Series | Dimensions |      |    |     |      |     |    | L Number of elements |      |       |      |       |       |       |       |       |       |       |       |       |
|--------|------------|------|----|-----|------|-----|----|----------------------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Series | □A         | C    | ØD | ØD2 | Е    | H   | □K | □N                   | 1    | 2     | 3    | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    |
| 7GN12  | 48         | 39.5 | 39 | 5   | 26.5 | 5   | 36 | 6                    | 38.1 | 47.8  | 57.5 | 67.2  | 76.9  | 86.6  | 96.3  | 106   | 115.7 | 125.4 | 135.1 | 144.8 |
| 7GN20  | 48         | 39.5 | 39 | 5   | 26.5 | 5   | 36 | 6                    | 38.1 | 47.8  | 57.5 | 67.2  | 76.9  | 86.6  | 96.3  | 106   | 115.7 | 125.4 | 135.1 | 144.8 |
| 7GN25  | 48         | 39.5 | 43 | 5   | 26.5 | 5   | 36 | 6                    | 42.5 | 56.1  | 69.7 | 83.3  | 96.9  | 110.5 | 124.1 | 137.7 | 151.3 | 164.9 | 178.5 | 192.1 |
| 7GN32  | 65         | 53   | 58 | 5   | 34.5 | 5.5 | 48 | 7                    | 48.5 | 63.6  | 78.7 | 93.8  | 108.9 | 124   | 139.1 | 154.2 | 169.3 | 184.4 | 199.5 | 214.6 |
| 7GN40  | 65         | 53   | 58 | 5   | 34.5 | 5.5 | 48 | 7                    | 48.5 | 63.6  | 78.7 | 93.8  | 108.9 | 124   | 139.1 | 154.2 | 169.3 | 184.4 | 199.5 | 214.6 |
| 7GN63  | 65         | 53   | 62 | 6   | 34.5 | 7.5 | 68 | 7                    | 53.3 | 71.4  | 89.5 | 107.6 | 125.7 | 143.8 | 161.9 | 180   | 198.1 | 216.2 | 234.3 | 252.4 |
| 7GN125 | 90         | 70.5 | 86 | 6   | 41.4 | 7.5 | 68 | 9                    | 74.8 | 103.9 | 133  | 162.1 | 191.2 | 220.3 | 249.4 | 278.5 | 307.6 | 336.7 | 365.8 | 394.9 |

#### 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