



ROTARY CAM SWITCH 7GN SERIES, STAR-DELTA MOTOR STARTER SWITCH 20A, FOR FRONT MOUNTING WITH RED/YELLOW HANDLE PADLOCKABLE IN 0 AND PROTECTION COVERS, FRONT PLATE 65X65MM

| Draduct designation                              |                                  |                      |             | Rotary cam  |
|--|----------------------------------|----------------------|-------------|---|
| Product designation                              |                                  |                      |             | switches  |
| Product type designation General characteristics | on                               |                      |             | 7GN20   |
| Switching diagram                                |                                  |                      |             | 12 - Star-delta<br>motor starter<br>switch  |
| N° of elements                                   |                                  |                      |             | 4   |
| Mounting form  Contact characteristics           |                                  |                      |             | U65 - Front<br>mounting with<br>red/yellow handle<br>padlockable in 0<br>and protection<br>covers |
| Rated insulation voltage                         | <u>.</u> 1 li                    |                      |             |   |
|  |                                  | IEC/EN<br>UL/CSA     | V<br>V      | 690<br>600  |
| Rated impulse withstan Conventional free air the |                                  |                      | kV          | 6   |
| Conventional free all the                        | ermai current itri               | IEC/EN<br>UL/CSA     | A<br>A      | 20<br>20  |
| Rated operational volta                          | -                                |                      | V           | 480   |
| Rated operational impu                           |                                  |                      | kV          | 4   |
| Maximum fuse size for                            | short-circuit protection In (gG) | 10kA<br>15kA<br>25kA | A<br>A<br>A | 20<br>16<br>16  |
| Rated short time curren                          | t Icw                            | 20101                |             |   |
|  |                                  | 1s                   | kA          | 250   |
| Conductivity                                     |                                  |                      |             | 10/5 mA/V   |
| Operational current le l                         |                                  |                      |             |   |
|  | AC1/AC21A                        |                      | Α           | 20  |
|  | AC15                             | 110V                 | Α           | 10  |
|  |                                  | 220/230V             | Α           | 8   |
|  |                                  | 380/400V             | A           | 6   |
| Dated energtional news                           | or in AC                         | 660/690V             | A           | 1.5   |
| Rated operational power                          | Three-phase AC-3                 |                      |             |   |
|  | Tillee-pilase AC-3               | 220/230V             | kW          | 3   |
|  |                                  | 380/440V             | kW          | 5.5   |
|  |                                  | 500/690V             | kW          | 5.5   |
|  | Single-phase AC-3                |                      |             |   |
|  |                                  | 110V                 | kW          | 0.8   |
|  |                                  | 220/230V             | kW          | 2.2   |
|  | Three phase AC22A                | 380/440V             | kW          | 3   |
|  | Three-phase AC23A                | 220/230V             | kW          | 5   |
|  |                                  | 380/440V             | kW          | 7.5   |
|  |                                  | 500/690V             | kW          | 7.5   |
|  | Single-phase AC23A               | 110V                 | kW          | 0.8   |



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|                                   |  | 220/230V   | kW         | 2.5               |
|-----------------------------------|--|------------|------------|-------------------|
|                                   |  | 380/440V   | kW         | 3.7               |
| Rated operational curr            | ent in DC                              |            |            |                   |
|                                   | DC21A                                  |            |            |                   |
|                                   |  | 48V        | Α          | 20                |
|                                   |  | 60V        | Α          | 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               |  |            |            |                   |
| Terminals screw                   |  |            |            | M3                |
| Tightening torque for to          | erminals max                           |            | Nm         | 0.5               |
| Conductor size                    |  |            |            |                   |
|                                   | AWG - Rigid cable                      |            |            |                   |
|                                   | 71170 Tiligia sabis                    | min        | AWG        | 20                |
|                                   |  | Max        | AWG        | 12                |
|                                   | AWG - Flexible cable                   | Wax        | 71110      | 12                |
|                                   | AWG TICABLE CUBIC                      | min        | AWG        | 20                |
|                                   |  | Max        | AWG        | 14                |
|                                   | Conductor size (IEC) - Flexible cable  | IVIAA      | 700        | 17                |
|                                   | Conductor size (IEC) - I lexible cable | min        | mm²        | 0.5               |
|                                   |  | Max        |            | 2.5               |
|                                   | Conductor size (IEC) Bigid coble       | ividX      | mm²        | ۷.۷               |
|                                   | Conductor size (IEC) - Rigid cable     | mai-a      | mm²        | 0.5               |
|                                   |  | min<br>Mov | mm²<br>mm² | 0.5               |
| Machanical life                   |  | Max        |            | 2.5<br>5×106      |
| Mechanical life UL technical data |  |            | cycles     | 5x10 <sup>6</sup> |
|                                   | an line control                        |            |            |                   |
| Motor power for direct            |  |            |            |                   |
|                                   | for three-phase motor                  | 4001       |            | 4.5               |
|                                   |  | 120V       | HP         | 1.5               |
|                                   |  | 240V       | HP         | 3                 |
|                                   |  | 480V       | HP         | 7.5               |
|                                   | -                                      | 600V       | HP         | 10                |
|                                   | for single-phase motor                 |            | –          |                   |
|                                   |  | 120V       | HP         | 0.75              |
|                                   |  | 240V       | HP         | 2                 |
| Ambient conditions                |  |            |            |                   |
| Temperature                       |  |            |            |                   |
|                                   | Operating temperature                  |            |            |                   |
|                                   |  | min        | °C         | -25               |
|                                   |  |            |            |                   |

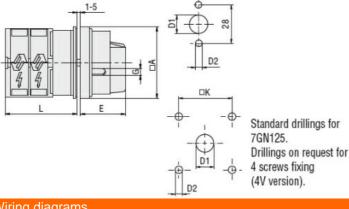




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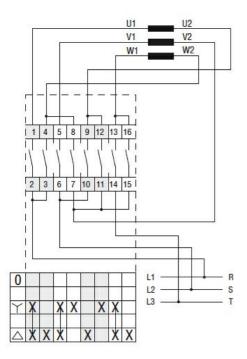
|                         | max | °C | +55  |
|-------------------------|-----|----|------|
| Storage temperature     |     |    |      |
|                         | min | °C | -40  |
|                         | max | °C | +70  |
| Resistance & Protection |     |    |      |
| Frontal IP degree       |     |    | IP40 |
| Terminals IP degree     |     |    | IP00 |

#### **Dimensions**



| Series | Dimensions |    |    |      |   | L  |      |      |       |       |
|--------|------------|----|----|------|---|----|------|------|-------|-------|
|        | □A         | D1 | D2 | Е    | G | □K | 1    | 2    | 3     | 12    |
| 7GN12  | 65         | 12 | 5  | 34.2 | 5 | 36 | 36.1 | 45.8 | 55.5  | 142.8 |
| 7GN20  | 65         | 12 | 5  | 34.2 | 5 | 36 | 36.1 | 45.8 | 55.5  | 142.8 |
| 7GN25  | 65         | 12 | 5  | 34.2 | 5 | 36 | 40.5 | 54.1 | 67.7  | 190.1 |
| 7GN32  | 65         | 14 | 5  | 38   | 6 | 48 | 46.5 | 61.6 | 76.7  | 212.6 |
| 7GN40  | 65         | 14 | 5  | 38   | 6 | 48 | 46.5 | 61.6 | 76.7  | 212.6 |
| 7GN63  | 65         | 14 | 5  | 38   | 6 | 48 | 50.3 | 68.4 | 86.5  | 249.4 |
| 7GN125 | 90         | 16 | 6  | 49   | 7 | 68 | 67.3 | 96.4 | 125.5 | 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



## 7GN2012U65

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ETIM 8.0

EC001029 -Selector switch, complete