



### General characteristics

|                   |   |
|-------------------|---|
| Switching diagram | 91 - ON/OFF switch 2 poles              |
| N° of elements    | 1                                       |
| Mounting form     | P - Plastic enclosure with black handle |

### Contact characteristics

|   |                  |    |           |
|---|------------------|----|-----------|
| Rated insulation voltage $U_i$                            | IEC/EN           | V  | 690       |
|   | UL/CSA           | V  | 600       |
| Rated impulse withstand voltage $U_{imp}$                 |                  | kV | 6         |
| Conventional free air thermal current $I_{th}$            | IEC/EN           | A  | 16        |
|   | UL/CSA           | A  | 15        |
| Rated operational voltage                                 |                  | V  | 480       |
| Rated operational impulse voltage                         |                  | kV | 4         |
| Maximum fuse size for short-circuit protection $I_n$ (gG) | 10kA             | A  | 16        |
|   | 15kA             | A  | 10        |
|   | 25kA             | A  | 10        |
| Rated short time current $I_{cw}$                         | 1s               | kA | 200       |
|   |                  |    | 10/5 mA/V |
| Conductivity  |                  |    | 10/5 mA/V |
| Operational current $I_e$ IEC/EN                          | AC1/AC21A        | A  | 16        |
|   | AC15             |    |           |
|   | 110V             | A  | 10        |
|   | 220/230V         | A  | 8         |
|   | 380/400V         | A  | 4         |
|   | 660/690V         | A  | 1.5       |
| Rated operational power in AC                             | Three-phase AC-3 |    |           |
|   |                  |    |           |
|   | 220/230V         | kW | 2.5       |
|   | 380/440V         | kW | 4         |
|   | 500/690V         | kW | 5.5       |
| Single-phase AC-3   | 110V             | kW | 0.8       |
|   | 220/230V         | kW | 1.5       |
|   | 380/440V         | kW | 2.2       |
| Three-phase AC23A   | 220/230V         | kW | 3         |
|   | 380/440V         | kW | 5.5       |
|   | 500/690V         | kW | 7.5       |
| Single-phase AC23A  |                  |    |           |

|  |          |                 |                   |
|--|----------|-----------------|-------------------|
|  | 110V     | kW              | 0.8               |
|  | 220/230V | kW              | 1.7               |
|  | 380/440V | kW              | 3                 |
| <hr/>                                  |          |                 |                   |
| Rated operational current in DC        |          |                 |                   |
| DC21A                                  |          |                 |                   |
|  | 48V      | A               | 12                |
|  | 60V      | A               | 12                |
|  | 110V     | A               | 4                 |
|  | 220V     | A               | 0.6               |
|  | 440V     | A               | 0.25              |
| <hr/>                                  |          |                 |                   |
| DC23A (poles in series)                |          |                 |                   |
|  | 24V      | A               | 10 (1)            |
|  | 48V      | A               | 10 (2)            |
|  | 60V      | A               | 10 (3)            |
|  | 110V     | A               | 5 (3)             |
|  | 220V     | A               | 5 (4)             |
| <hr/>                                  |          |                 |                   |
| DC13                                   |          |                 |                   |
|  | 24V      | A               | 12                |
|  | 48V      | A               | 10                |
|  | 60V      | A               | 8                 |
|  | 110V     | A               | 1                 |
|  | 220V     | A               | 0.4               |
|  | 440V     | A               | 0.15              |
| <hr/>                                  |          |                 |                   |
| Power dissipation                      |          | W               | 0.8               |
| <b>Mechanical features</b>             |          |                 |                   |
| Terminals screw                        |          |                 | M3                |
| Tightening torque for terminals max    |          | Nm              | 0.5               |
| <hr/>                                  |          |                 |                   |
| Conductor size                         |          |                 |                   |
| AWG - Rigid cable                      |          |                 |                   |
|  | min      | AWG             | 20                |
|  | Max      | AWG             | 12                |
| <hr/>                                  |          |                 |                   |
| AWG - Flexible cable                   |          |                 |                   |
|  | min      | AWG             | 20                |
|  | Max      | AWG             | 14                |
| <hr/>                                  |          |                 |                   |
| Conductor size (IEC) - Flexible cable  |          |                 |                   |
|  | min      | mm <sup>2</sup> | 0.5               |
|  | Max      | mm <sup>2</sup> | 2.5               |
| <hr/>                                  |          |                 |                   |
| Conductor size (IEC) - Rigid cable     |          |                 |                   |
|  | min      | mm <sup>2</sup> | 0.5               |
|  | Max      | mm <sup>2</sup> | 2.5               |
| <hr/>                                  |          |                 |                   |
| Mechanical life                        |          | cycles          | 3x10 <sup>6</sup> |
| <b>UL technical data</b>               |          |                 |                   |
| Motor power for direct-on-line control |          |                 |                   |
| for three-phase motor                  |          |                 |                   |
|  | 120V     | HP              | 1.5               |
|  | 240V     | HP              | 3                 |
| <hr/>                                  |          |                 |                   |
| for single-phase motor                 |          |                 |                   |
|  | 120V     | HP              | 0.5               |
|  | 240V     | HP              | 1                 |
| <hr/>                                  |          |                 |                   |
| <b>Ambient conditions</b>              |          |                 |                   |
| Temperature                            |          |                 |                   |
| Operating temperature                  |          |                 |                   |
|  | min      | °C              | -25               |
|  | max      | °C              | +55               |

Storage temperature

min °C -40  
max °C +70

**Resistance & Protection**

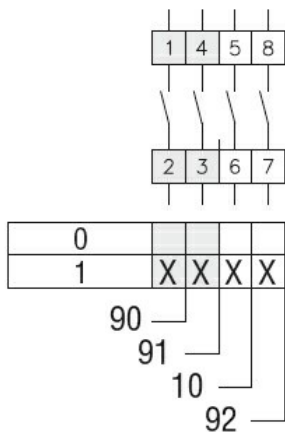
|                     |      |
|---------------------|------|
| Frontal IP degree   | IP65 |
| Terminals IP degree | IP00 |

**Dimensions**

| Series              | Enclosure size     | Number of elements |     | Dimensions |     |         |         |     |    |    |      |      |       | Cable entry      | Protection degree |
|---------------------|--------------------|--------------------|-----|------------|-----|---------|---------|-----|----|----|------|------|-------|------------------|-------------------|
|                     |                    | L                  | L1  | A          | A1  | C       | C1      | D   | F  | M  | N    | L    | L1    |                  |                   |
| 7GN12 <sup>Ⓢ</sup>  | 75x75 <sup>Ⓢ</sup> | 1-2                | 3-4 | 75         | 75  | 50      | 64      | 4.5 | 19 | 14 | 28   | 57.5 | 79.8  | 4xPG13.5         | IP65              |
| 7GN20 <sup>Ⓢ</sup>  |                    | 1-2                | 3-4 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN25 <sup>Ⓢ</sup>  |                    | 1                  | 2-3 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN12 <sup>Ⓢ</sup>  | 90x90              | 1-3                | 4-6 | 90         | 90  | 79      | 63      | 4.5 | 25 | 19 | 30   | 71.3 | 98.3  | 4xPG16           | IP65              |
| 7GN20 <sup>Ⓢ</sup>  |                    | 1-3                | 4-6 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN25 <sup>Ⓢ</sup>  |                    | 1-2                | 3-4 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN32 <sup>Ⓢ</sup>  |                    | 1                  | 2-3 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN40 <sup>Ⓢ</sup>  |                    | 1                  | 2-3 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN12 <sup>Ⓢ</sup>  | 110x110            | 1-4                | 5-8 | 110        | 110 | 98.4    | 83      | 4.5 | 32 | 21 | 39.5 | 85.5 | 119.5 | 4xPG21           | IP65              |
| 7GN20 <sup>Ⓢ</sup>  |                    | 1-4                | 5-8 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN25 <sup>Ⓢ</sup>  |                    | 1-3                | 4-5 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN32 <sup>Ⓢ</sup>  |                    | 1-2                | 3-5 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN40 <sup>Ⓢ</sup>  |                    | 1-2                | 3-5 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN63 <sup>Ⓢ</sup>  |                    | 1-2                | 3-4 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN32 <sup>Ⓢ</sup>  | 125x175            | 1-2                | 3-4 | 125        | 175 | 146     | 112     | 5.5 | 32 | 21 | 68   | 84.3 | 118.3 | 4xPG21<br>2xPG11 | IP65              |
| 7GN40 <sup>Ⓢ</sup>  |                    | 1-2                | 3-4 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN63 <sup>Ⓢ</sup>  |                    | 1-2                | 3-4 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN125 <sup>Ⓢ</sup> |                    | 1                  | 2   |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN32 <sup>Ⓢ</sup>  | 198x248            | -                  | 1-7 | 198        | 248 | 190-210 | 140-180 | 5.5 | 32 | 35 | 104  | -    | 166.5 | 6xPG16-<br>21-29 | IP65              |
| 7GN40 <sup>Ⓢ</sup>  |                    | -                  | 1-7 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN63 <sup>Ⓢ</sup>  |                    | -                  | 1-6 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN125 <sup>Ⓢ</sup> |                    | -                  | 1-4 |            |     |         |         |     |    |    |      |      |       |                  |                   |

- Ⓢ Standard dimensions for cam switch in plastic enclosure with black handle (P).
- Ⓢ Standard dimensions for cam switch in plastic enclosure with red/yellow handle padlockable in 0 (P25).

**Wiring diagrams**



**Certifications and compliance**

Compliance

IEC/EN/BS 60947-1  
IEC/EN/BS 60947-3  
IEC/EN/BS 60947-5-1

Certificates

EAC

**ETIM classification**

ETIM 8.0

EC001029 -  
Selector switch,  
complete