

### General characteristics

|                   |  |
|-------------------|--|
| Switching diagram | 07 - ON/OFF<br>switch 3 poles  |
| N° of elements    | 2  |
| Mounting form     | O88 - Rear<br>mounting with<br>red/yellow handle<br>padlockable in 0,<br>door coupling<br>and protection<br>covers |

### Contact characteristics

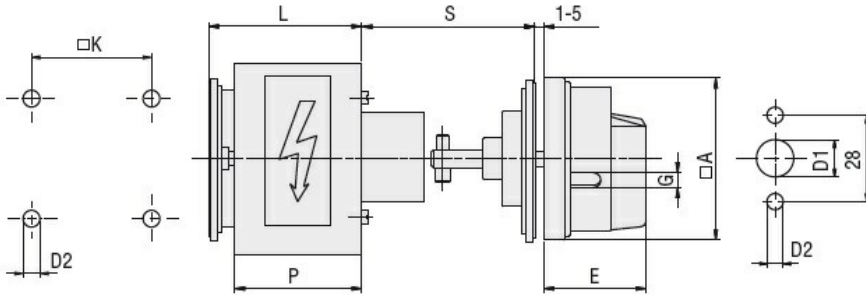
|   |           |    |           |
|---|-----------|----|-----------|
| Rated insulation voltage $U_i$                            | IEC/EN    | V  | 690       |
|   | UL/CSA    | V  | 600       |
| Rated impulse withstand voltage $U_{imp}$                 |           | kV | 6         |
| Conventional free air thermal current $I_{th}$            | IEC/EN    | A  | 40        |
|   | UL/CSA    | A  | 50        |
| Rated operational voltage                                 |           | V  | 480       |
| Rated operational impulse voltage                         |           | kV | 4         |
| Maximum fuse size for short-circuit protection $I_n$ (gG) | 10kA      | A  | 40        |
|   | 15kA      | A  | 40        |
|   | 25kA      | A  | 40        |
|   | 50kA      | A  | 40        |
|   | 63kA      | A  | 40        |
| Rated short time current $I_{cw}$                         | 1s        | kA | 1000      |
|   |           |    | 10/5 mA/V |
| Conductivity  |           |    | 10/5 mA/V |
| Operational current $I_e$ IEC/EN                          | AC1/AC21A | A  | 40        |
|   | AC15      |    |           |
| Rated operational power in AC                             | 110V      | A  | 25        |
|   | 220/230V  | A  | 22        |
|   | 380/400V  | A  | 12        |
|   | 660/690V  | A  | 2         |
|   |           |    |           |
| Three-phase AC-3  | 220/230V  | kW | 8         |
|   | 380/440V  | kW | 15        |
|   | 500/690V  | kW | 15        |
| Single-phase AC-3   | 110V      | kW | 3         |
|   | 220/230V  | kW | 6.5       |
|   | 380/440V  | kW | 8         |
| Three-phase AC23A   | 220/230V  | kW | 8         |
|   | 380/440V  | kW | 18.5      |
|   | 500/690V  | kW | 22        |
| Single-phase AC23A  | 110V      | kW | 3         |
|   | 220/230V  | kW | 6         |

|  | 380/440V | kW              | 11                |
|--|----------|-----------------|-------------------|
| Rated operational current in DC        |          |                 |                   |
| DC21A                                  | 48V      | A               | 40                |
|  | 60V      | A               | 40                |
|  | 110V     | A               | 6                 |
|  | 220V     | A               | 0.9               |
| DC23A (poles in series)                | 24V      | A               | 40 (1)            |
|  | 48V      | A               | 40 (2)            |
|  | 60V      | A               | 40 (3)            |
|  | 110V     | A               | 20 (3)            |
|  | 220V     | A               | 12 (4)            |
| DC13                                   | 24V      | A               | 40                |
|  | 48V      | A               | 32                |
|  | 60V      | A               | 16                |
|  | 110V     | A               | 3                 |
| Power dissipation                      |          | W               | 2.0               |
| <b>Mechanical features</b>             |          |                 |                   |
| Terminals screw                        |          |                 | M4                |
| Tightening torque for terminals max    |          | Nm              | 1.2               |
| Conductor size                         |          |                 |                   |
| AWG - Rigid cable                      | min      | AWG             | 16                |
|  | Max      | AWG             | 8                 |
| AWG - Flexible cable                   | min      | AWG             | 16                |
|  | Max      | AWG             | 10                |
| Conductor size (IEC) - Flexible cable  | min      | mm <sup>2</sup> | 1.5               |
|  | Max      | mm <sup>2</sup> | 6                 |
| Conductor size (IEC) - Rigid cable     | min      | mm <sup>2</sup> | 1.5               |
|  | Max      | mm <sup>2</sup> | 10                |
| Mechanical life                        |          | cycles          | 5x10 <sup>6</sup> |
| <b>UL technical data</b>               |          |                 |                   |
| Motor power for direct-on-line control |          |                 |                   |
| for three-phase motor                  | 120V     | HP              | 5                 |
|  | 240V     | HP              | 10                |
|  | 480V     | HP              | 20                |
|  | 600V     | HP              | 20                |
| for single-phase motor                 | 120V     | HP              | 2                 |
|  | 240V     | HP              | 5                 |
| <b>Ambient conditions</b>              |          |                 |                   |
| Temperature                            |          |                 |                   |
| Operating temperature                  | min      | °C              | -25               |
|  | max      | °C              | +55               |
| Storage temperature                    | min      | °C              | -40               |
|  | max      | °C              | +70               |

**Resistance & Protection**

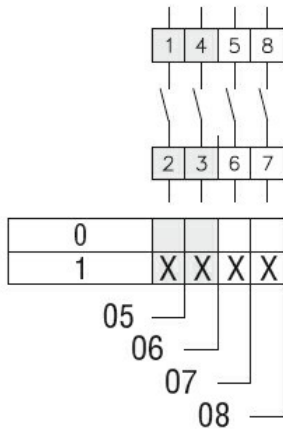
|                     |      |
|---------------------|------|
| Frontal IP degree   | IP40 |
| Terminals IP degree | IP00 |

**Dimensions**



| Series | Dimensions |    |    |      |   |    |       |    |      |
|--------|------------|----|----|------|---|----|-------|----|------|
|        | □A         | D1 | D2 | E    | G | □K | S     | P  | L    |
| 7GN12  | 65         | 12 | 5  | 34.2 | 5 | 36 | 45-55 | 43 | 51.3 |
| 7GN20  | 65         | 12 | 5  | 34.2 | 5 | 36 | 45-55 | 43 | 51.3 |
| 7GN25  | 65         | 12 | 5  | 34.2 | 5 | 36 | 45-55 | 51 | 59.6 |
| 7GN32  | 65         | 14 | 5  | 38   | 6 | 48 | 45-55 | 55 | 68.7 |
| 7GN40  | 65         | 14 | 5  | 38   | 6 | 48 | 45-55 | 55 | 68.7 |

**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