

### General characteristics

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

### Contact characteristics

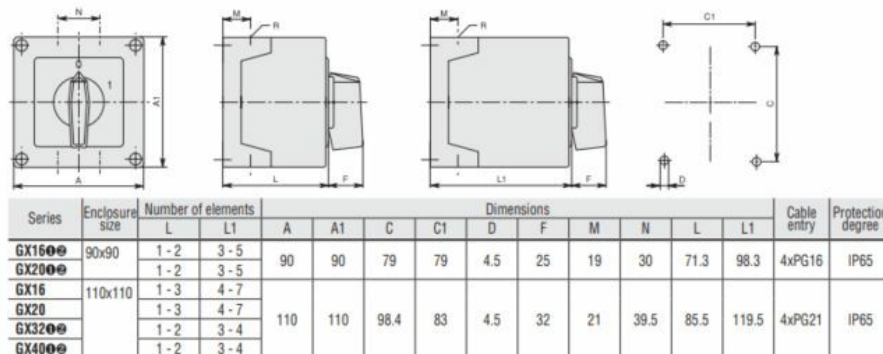
|                                                           |          |    |           |
|-----------------------------------------------------------|----------|----|-----------|
| Rated insulation voltage $U_i$                            | IEC/EN   | V  | 690       |
|                                                           | 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  | 12        |
| Rated operational voltage                                 |          | V  | 440       |
| Rated operational impulse voltage                         |          | kV | 4         |
| Maximum fuse size for short-circuit protection $I_n$ (gG) | 10kA     | A  | 16        |
|                                                           | 15kA     | A  | 16        |
|                                                           | 25kA     | A  | 16        |
| Rated short time current $I_{cw}$                         | 1s       | kA | 250       |
| 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 | 3.5       |
|                                                           | 380/440V | kW | 4.5       |
|                                                           | 500/690V | kW | 5.5       |
| Single-phase AC-3                                         | 110V     | kW | 0.55      |
|                                                           | 220/230V | kW | 1.5       |
|                                                           | 380/440V | kW | 2.2       |
| Three-phase AC23A                                         | 220/230V | kW | 3.7       |
|                                                           | 380/440V | kW | 6.5       |
|                                                           | 500/690V | kW | 7.5       |
| Single-phase AC23A                                        | 110V     | kW | 0.75      |
|                                                           | 220/230V | kW | 1.8       |
|                                                           | 380/440V | kW | 3         |
| Rated operational current in DC                           |          |    |           |
| DC21A                                                     | 48V      | A  | 16        |
|                                                           | 60V      | A  | 16        |

|                                        |  |      |                 |                   |
|----------------------------------------|--|------|-----------------|-------------------|
|                                        |  | 110V | A               | 4                 |
|                                        |  | 220V | A               | 0.6               |
|                                        |  | 440V | A               | 0.25              |
| DC23A (poles in series)                |  |      |                 |                   |
|                                        |  | 24V  | A               | 16 (1)            |
|                                        |  | 48V  | A               | 16 (2)            |
|                                        |  | 60V  | A               | 16 (3)            |
|                                        |  | 110V | A               | 10 (3)            |
|                                        |  | 220V | A               | 7 (4)             |
| DC13                                   |  |      |                 |                   |
|                                        |  | 24V  | A               | 16                |
|                                        |  | 48V  | A               | 14                |
|                                        |  | 60V  | A               | 10                |
|                                        |  | 110V | A               | 1                 |
|                                        |  | 220V | A               | 0.4               |
|                                        |  | 440V | A               | 0.15              |
| Power dissipation                      |  |      | W               | 0.6               |
| Mechanical features                    |  |      |                 |                   |
| Terminals screw                        |  |      |                 | 3M                |
| Tightening torque for terminals max    |  |      | Nm              | 0.5               |
| Conductor size                         |  |      |                 |                   |
| AWG - Rigid cable                      |  |      |                 |                   |
|                                        |  | min  | AWG             | 20                |
|                                        |  | Max  | AWG             | 12                |
| AWG - Flexible cable                   |  |      |                 |                   |
|                                        |  | min  | AWG             | 20                |
|                                        |  | Max  | AWG             | 12                |
| Conductor size (IEC) - Flexible cable  |  |      |                 |                   |
|                                        |  | min  | mm <sup>2</sup> | 0.5               |
|                                        |  | Max  | mm <sup>2</sup> | 2.5               |
| Conductor size (IEC) - Rigid cable     |  |      |                 |                   |
|                                        |  | min  | mm <sup>2</sup> | 0.5               |
|                                        |  | Max  | mm <sup>2</sup> | 2.5               |
| Mechanical life                        |  |      | cycles          | 1X10 <sup>6</sup> |
| UL technical data                      |  |      |                 |                   |
| Motor power for direct-on-line control |  |      |                 |                   |
| for three-phase motor                  |  |      |                 |                   |
|                                        |  | 120V | HP              | 1.5               |
|                                        |  | 240V | HP              | 3                 |
|                                        |  | 480V | HP              | 5                 |
|                                        |  | 600V | HP              | 5                 |
| for single-phase motor                 |  |      |                 |                   |
|                                        |  | 120V | HP              | 0.75              |
|                                        |  | 240V | HP              | 1                 |
| Ambient conditions                     |  |      |                 |                   |
| Temperature                            |  |      |                 |                   |
| Operating temperature                  |  |      |                 |                   |
|                                        |  | min  | °C              | -25               |
|                                        |  | max  | °C              | +55               |
| Storage temperature                    |  |      |                 |                   |
|                                        |  | min  | °C              | -40               |
|                                        |  | max  | °C              | +70               |
| Resistance & Protection                |  |      |                 |                   |
| Frontal IP degree                      |  |      |                 | IP65              |

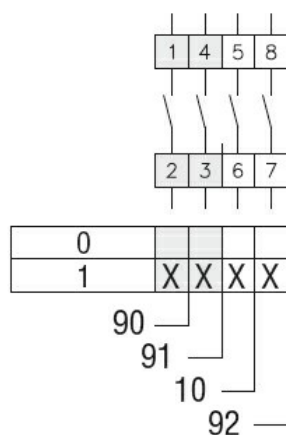
Terminals IP degree

IP20

## Dimensions



## Wiring diagrams



## Certifications and compliance

### Compliance

IEC/EN/BS 60947-1

IEC/EN/BS 60947-3

IEC/EN/BS 60947-5-1

IEC/EN/BS 61058-1

### Certificates

EAC

## ETIM classification

ETIM 8.0

EC001029 -  
Selector switch,  
complete