

|                                                        |  |  |                                                                                       |                                         |
|--------------------------------------------------------|--|--|---------------------------------------------------------------------------------------|-----------------------------------------|
| Product designation                                    |  |  | Rotary cam switches                                                                   |                                         |
| Product type designation                               |  |  | GX16                                                                                  |                                         |
| General characteristics                                |  |  |                                                                                       |                                         |
| Switching diagram                                      |  |  | 69 - Changeover switch without 0 4 poles                                              |                                         |
| N° of elements                                         |  |  | 4                                                                                     |                                         |
| Mounting form                                          |  |  | U11 - Front mounting with black handle without front plate for hole diam. 22mm fixing |                                         |
| Contact characteristics                                |  |  |                                                                                       |                                         |
| Rated insulation voltage Ui                            |  |  | IEC/EN<br>UL/CSA                                                                      | V<br>V<br>690<br>600                    |
| Rated impulse withstand voltage Uimp                   |  |  | kV                                                                                    | 6                                       |
| Conventional free air thermal current Ith              |  |  | IEC/EN<br>UL/CSA                                                                      | A<br>A<br>16<br>12                      |
| Rated operational voltage                              |  |  | V                                                                                     | 440                                     |
| Rated operational impulse voltage                      |  |  | kV                                                                                    | 4                                       |
| Maximum fuse size for short-circuit protection In (gG) |  |  | 10kA<br>15kA<br>25kA                                                                  | A<br>A<br>A<br>16<br>16<br>16           |
| Rated short time current Icw                           |  |  | 1s                                                                                    | kA<br>250                               |
| Conductivity                                           |  |  | 10/5 mA/V                                                                             |                                         |
| Operational current Ie IEC/EN                          |  |  |                                                                                       |                                         |
| AC1/AC21A                                              |  |  | A                                                                                     | 16                                      |
| AC15                                                   |  |  | 110V<br>220/230V<br>380/400V<br>660/690V                                              | A<br>A<br>A<br>A<br>10<br>8<br>4<br>1.5 |
| Rated operational power in AC                          |  |  |                                                                                       |                                         |
| Three-phase AC-3                                       |  |  | 220/230V<br>380/440V<br>500/690V                                                      | kW<br>kW<br>kW<br>3.5<br>4.5<br>5.5     |
| Single-phase AC-3                                      |  |  | 110V<br>220/230V<br>380/440V                                                          | kW<br>kW<br>kW<br>0.55<br>1.5<br>2.2    |
| Three-phase AC23A                                      |  |  | 220/230V<br>380/440V<br>500/690V                                                      | kW<br>kW<br>kW<br>3.7<br>6.5<br>7.5     |
| Single-phase AC23A                                     |  |  | 110V                                                                                  | kW<br>0.75                              |

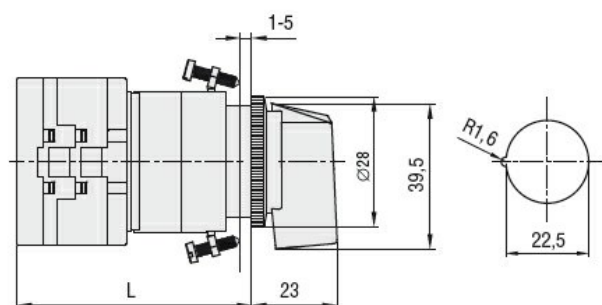
|                                        |      |                 |        |                   |
|----------------------------------------|------|-----------------|--------|-------------------|
|                                        |      | 220/230V        | kW     | 1.8               |
|                                        |      | 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               |

|                     |     |    |     |
|---------------------|-----|----|-----|
| Storage temperature | max | °C | +55 |
|                     | min | °C | -40 |
|                     | max | °C | +70 |

#### Resistance & Protection

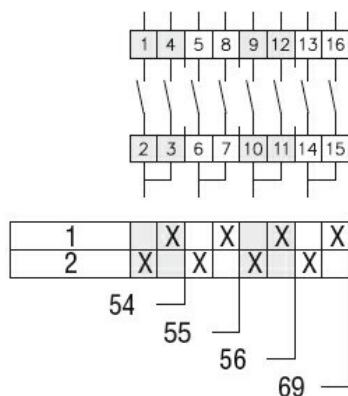
|                     |      |
|---------------------|------|
| Frontal IP degree   | IP65 |
| Terminals IP degree | IP20 |

#### Dimensions



| Series | L  |      |         |       |
|--------|----|------|---------|-------|
|        | 1  | 2    | 3.....8 |       |
| GX16   | 54 | 62.5 | 71      | 147.5 |
| GX20   | 54 | 62.5 | 71      | 147.5 |

#### 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 |
| IEC/EN/BS 61058-1   |
| UL60947-4-1         |

##### Certificates

|       |
|-------|
| cULus |
| EAC   |

#### ETIM classification

|          |                                            |
|----------|--------------------------------------------|
| ETIM 8.0 | EC001029 -<br>Selector switch,<br>complete |
|----------|--------------------------------------------|