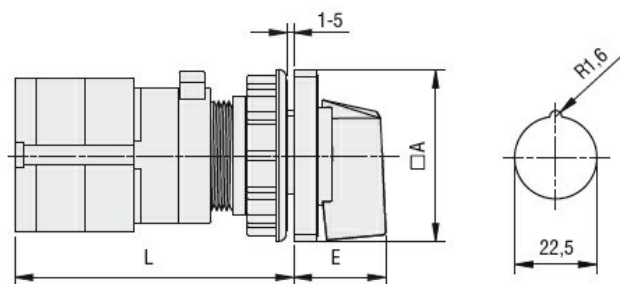


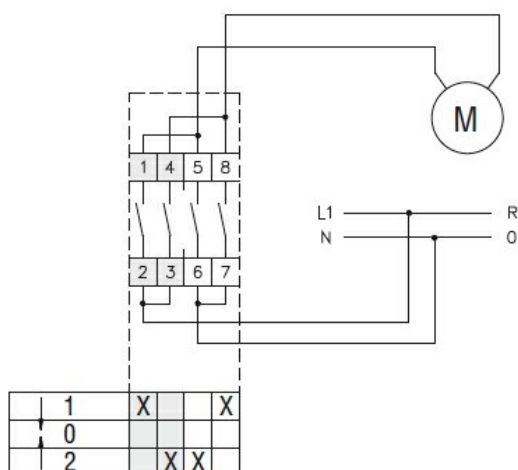
|                                                        |                                                                           |                |                     |
|--------------------------------------------------------|---------------------------------------------------------------------------|----------------|---------------------|
| Product designation                                    | Rotary cam switches                                                       |                |                     |
| Product type designation                               | GF10                                                                      |                |                     |
| General characteristics                                |                                                                           |                |                     |
| Switching diagram                                      | 25 - 1-phase motor reversing switch with spring return                    |                |                     |
| N° of elements                                         | 2                                                                         |                |                     |
| Mounting form                                          | U47 - Snap on fron mounting with black handle for hole diam. 22mm finxing |                |                     |
| Contact characteristics                                |                                                                           |                |                     |
| Rated insulation voltage Ui                            | IEC/EN<br>UL/CSA                                                          | V<br>V         | 480<br>240          |
| Rated impulse withstand voltage Uimp                   |                                                                           | kV             | 4                   |
| Conventional free air thermal current Ith              | IEC/EN<br>UL/CSA                                                          | A<br>A         | 10<br>10            |
| Rated operational voltage                              |                                                                           | V              | 480                 |
| Rated operational impulse voltage                      |                                                                           | kV             | 4                   |
| Maximum fuse size for short-circuit protection In (gG) | 10kA                                                                      | A              | 16                  |
| Rated short time current Icw                           | 1s                                                                        | kA             | 250                 |
| Conductivity                                           | 10/5 mA/V                                                                 |                |                     |
| Operational current Ie IEC/EN                          |                                                                           |                |                     |
| AC1/AC21A                                              |                                                                           | A              | 10                  |
| AC15                                                   | 110V<br>220/230V<br>380/400V                                              | A<br>A<br>A    | 5<br>3<br>2         |
| Rated operational power in AC                          |                                                                           |                |                     |
| Three-phase AC-3                                       | 220/230V<br>380/440V                                                      | kW<br>kW       | 1.5<br>2.2          |
| Single-phase AC-3                                      | 110V<br>220/230V<br>380/440V                                              | kW<br>kW<br>kW | 0.3<br>0.55<br>0.75 |
| Three-phase AC23A                                      | 220/230V<br>380/440V                                                      | kW<br>kW       | 1.8<br>3            |
| Single-phase AC23A                                     | 110V<br>220/230V<br>380/440V                                              | kW<br>kW<br>kW | 0.7<br>0.75<br>1.1  |
| Rated operational current in DC                        |                                                                           |                |                     |
| DC21A                                                  |                                                                           |                |                     |

|                                        |                        |      |                 |                   |
|----------------------------------------|------------------------|------|-----------------|-------------------|
|                                        |                        | 48V  | A               | 10                |
|                                        |                        | 60V  | A               | 7                 |
|                                        |                        | 110V | A               | 2                 |
|                                        |                        | 220V | A               | 0.7               |
|                                        |                        | 440V | A               | 0.2               |
| DC13                                   |                        |      |                 |                   |
|                                        |                        | 24V  | A               | 3                 |
|                                        |                        | 48V  | A               | 3                 |
|                                        |                        | 60V  | A               | 2                 |
|                                        |                        | 110V | A               | 1                 |
|                                        |                        | 220V | A               | 0.3               |
|                                        |                        | 440V | A               | 0.1               |
| Power dissipation                      |                        |      | W               | 0.4               |
| Mechanical features                    |                        |      |                 |                   |
| Terminals screw                        |                        |      |                 | 2.5M              |
| Tightening torque for terminals max    |                        |      | Nm              | 0.4               |
| Conductor size                         |                        |      |                 |                   |
|                                        | AWG - Rigid cable      |      |                 |                   |
|                                        |                        | min  | AWG             | 20                |
|                                        |                        | Max  | AWG             | 14                |
| AWG - Flexible cable                   |                        |      |                 |                   |
|                                        |                        | min  | AWG             | 20                |
|                                        |                        | Max  | AWG             | 14                |
| Conductor size (IEC) - Flexible cable  |                        |      |                 |                   |
|                                        |                        | min  | mm <sup>2</sup> | 0.5               |
|                                        |                        | Max  | mm <sup>2</sup> | 1.5               |
| Conductor size (IEC) - Rigid cable     |                        |      |                 |                   |
|                                        |                        | min  | mm <sup>2</sup> | 0.5               |
|                                        |                        | Max  | mm <sup>2</sup> | 1.5               |
| Mechanical life                        |                        |      | cycles          | 1x10 <sup>6</sup> |
| UL technical data                      |                        |      |                 |                   |
| Motor power for direct-on-line control |                        |      |                 |                   |
|                                        | for three-phase motor  |      |                 |                   |
|                                        |                        | 240V | HP              | 2                 |
|                                        | for single-phase motor |      |                 |                   |
|                                        |                        | 240V | HP              | 0.75              |
| Ambient conditions                     |                        |      |                 |                   |
| 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                    |                        |      |                 | IP20              |
| Dimensions                             |                        |      |                 |                   |



| Series | Dimensions |      | L  |      |       |       |
|--------|------------|------|----|------|-------|-------|
|        | □A         | E    | 1  | 2    | 3...8 |       |
| GF10   | 30         | 18.5 | 60 | 72   | 84    | 144   |
| GF20   | 48         | 26.5 | 56 | 69.5 | 83    | 150.5 |

## 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  
UL60947-4-1

### Certificates

cULus  
EAC

## ETIM classification

ETIM 8.0

EC001029 -  
Selector switch,  
complete