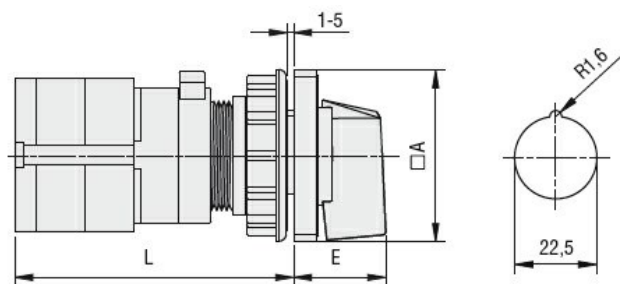


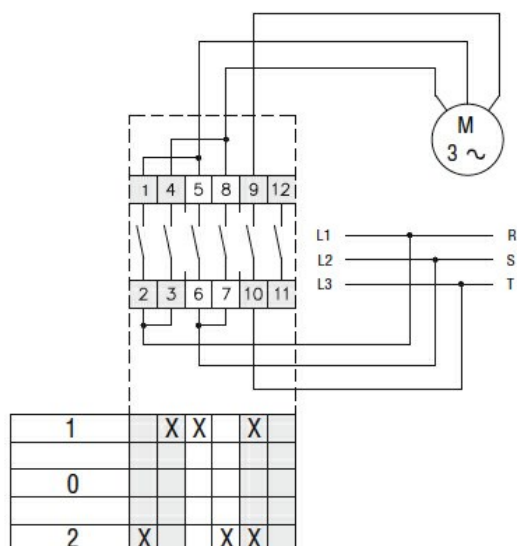
|                                                        |                                                                           |    |      |
|--------------------------------------------------------|---------------------------------------------------------------------------|----|------|
| Product designation                                    | Rotary cam switches                                                       |    |      |
| Product type designation                               | GF10                                                                      |    |      |
| General characteristics                                |                                                                           |    |      |
| Switching diagram                                      | 11 - 3-phase motor reversing switch                                       |    |      |
| N° of elements                                         | 3                                                                         |    |      |
| Mounting form                                          | U47 - Snap on fron mounting with black handle for hole diam. 22mm finxing |    |      |
| Contact characteristics                                |                                                                           |    |      |
| Rated insulation voltage Ui                            | IEC/EN                                                                    | V  | 480  |
|                                                        | UL/CSA                                                                    | V  | 240  |
| Rated impulse withstand voltage Uimp                   |                                                                           | kV | 4    |
| Conventional free air thermal current Ith              | IEC/EN                                                                    | A  | 10   |
|                                                        | UL/CSA                                                                    | A  | 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                                                                      | A  | 5    |
|                                                        | 220/230V                                                                  | A  | 3    |
|                                                        | 380/400V                                                                  | A  | 2    |
| Rated operational power in AC                          |                                                                           |    |      |
| Three-phase AC-3                                       | 220/230V                                                                  | kW | 1.5  |
|                                                        | 380/440V                                                                  | kW | 2.2  |
| Single-phase AC-3                                      | 110V                                                                      | kW | 0.3  |
|                                                        | 220/230V                                                                  | kW | 0.55 |
|                                                        | 380/440V                                                                  | kW | 0.75 |
| Three-phase AC23A                                      | 220/230V                                                                  | kW | 1.8  |
|                                                        | 380/440V                                                                  | kW | 3    |
| Single-phase AC23A                                     | 110V                                                                      | kW | 0.7  |
|                                                        | 220/230V                                                                  | kW | 0.75 |
|                                                        | 380/440V                                                                  | kW | 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               |
| <b>Mechanical features</b>             |                                       |      |                 |                   |
| 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> |
| <b>UL technical data</b>               |                                       |      |                 |                   |
| Motor power for direct-on-line control |                                       |      |                 |                   |
|                                        | for three-phase motor                 |      |                 |                   |
|                                        |                                       | 240V | HP              | 2                 |
|                                        | for single-phase motor                |      |                 |                   |
|                                        |                                       | 240V | HP              | 0.75              |
| <b>Ambient conditions</b>              |                                       |      |                 |                   |
| Temperature                            |                                       |      |                 |                   |
|                                        | Operating temperature                 |      |                 |                   |
|                                        |                                       | min  | °C              | -25               |
|                                        |                                       | max  | °C              | +55               |
|                                        | Storage temperature                   |      |                 |                   |
|                                        |                                       | min  | °C              | -40               |
|                                        |                                       | max  | °C              | +70               |
| <b>Resistance &amp; Protection</b>     |                                       |      |                 |                   |
| Frontal IP degree                      |                                       |      |                 | IP40              |
| Terminals IP degree                    |                                       |      |                 | IP20              |
| <b>Dimensions</b>                      |                                       |      |                 |                   |



| 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