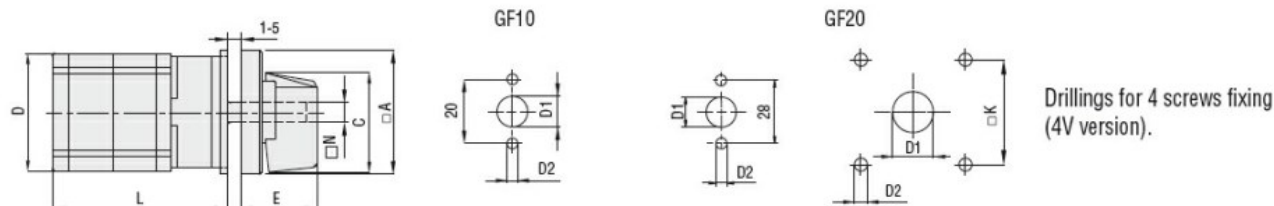


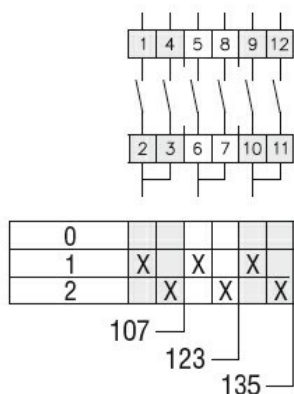
|                                                        |  |  |                                            |                  |                     |
|--------------------------------------------------------|--|--|--------------------------------------------|------------------|---------------------|
| Product designation                                    |  |  | Rotary cam switches                        |                  |                     |
| Product type designation                               |  |  | GF10                                       |                  |                     |
| General characteristics                                |  |  |                                            |                  |                     |
| Switching diagram                                      |  |  | 123 - Multi-step<br>0-1-2 2 poles          |                  |                     |
| N° of elements                                         |  |  | 2                                          |                  |                     |
| Mounting form                                          |  |  | U - Front<br>mounting with<br>black handle |                  |                     |
| 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<br>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<br>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<br>DC21A               |  |  | 48V<br>60V<br>110V<br>220V                 | A<br>A<br>A<br>A | 10<br>7<br>2<br>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 Number of elements |      |    |      |    |       |     |       |     |       |     |       |
|--------|------------|------|----|-----|-----|------|----|----|----------------------|------|----|------|----|-------|-----|-------|-----|-------|-----|-------|
|        | □A         | C    | D  | ØD1 | ØD2 | E    | □K | N  | 1                    | 2    | 3  | 4    | 5  | 6     | 7   | 8     | 9   | 10    | 11  | 12    |
| GF10   | 30         | 24   | 29 | 9   | 3.2 | 18.5 | —  | Ø5 | 40                   | 52   | 64 | 76   | 88 | 100   | 112 | 124   | —   | —     | —   | —     |
| GF20   | 48         | 39.5 | 36 | 12  | 5   | 26.5 | 36 | □6 | 44                   | 57.5 | 71 | 84.5 | 98 | 111.5 | 125 | 138.5 | 152 | 165.5 | 179 | 192.5 |

## 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