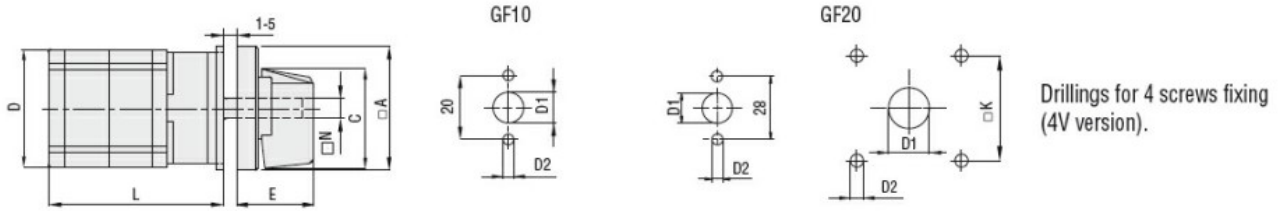


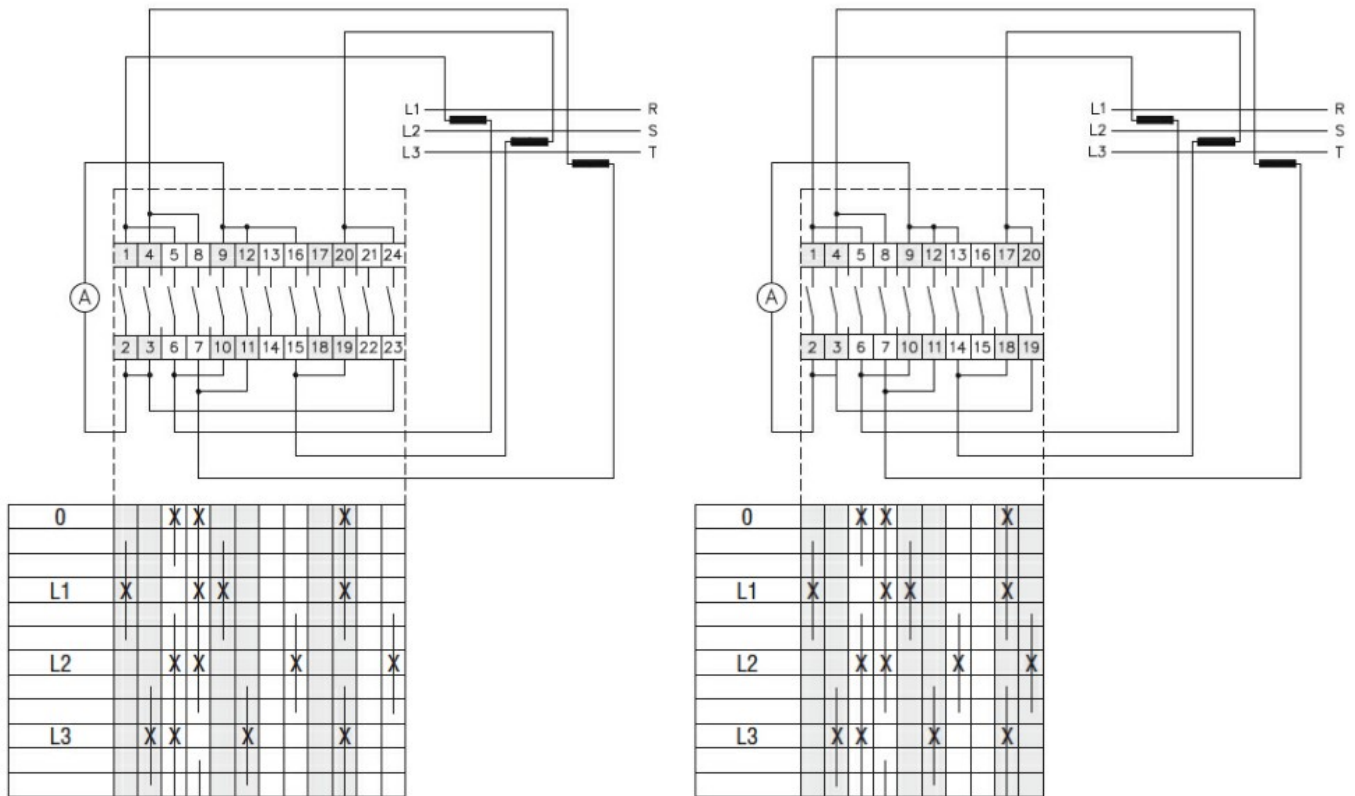
|   |                                 |          |     |                                      |    |
|---|---------------------------------|----------|-----|--------------------------------------|----|
| Product designation                                       |                                 |          |     | Rotary cam switches                  |    |
| Product type designation                                  |                                 |          |     | GF10                                 |    |
| <b>General characteristics</b>                            |                                 |          |     |                                      |    |
| Switching diagram   |                                 |          |     | 97 - Ammeter switch                  |    |
| N° of elements  |                                 |          |     | 6                                    |    |
| Mounting form   |                                 |          |     | U - Front mounting with black handle |    |
| <b>Contact characteristics</b>                            |                                 |          |     |                                      |    |
| Rated insulation voltage $U_i$                            | IEC/EN                          | V        | 480 |                                      |    |
|   | UL/CSA                          | V        | 240 |                                      |    |
| Rated impulse withstand voltage $U_{imp}$                 |                                 | kV       | 4   |                                      |    |
| Conventional free air thermal current $I_{th}$            | 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 $I_n$ (gG) | 10kA                            | 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   | 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 Number of elements |      |    |      |    |       |     |       |     |       |     |       |
|--------|------------|------|----|-----|-----|------|----|----|----------------------|------|----|------|----|-------|-----|-------|-----|-------|-----|-------|
|        | □A         | C    | D  | ∅D1 | ∅D2 | E    | □K | N  | 1                    | 2    | 3  | 4    | 5  | 6     | 7   | 8     | 9   | 10    | 11  | 12    |
| GF10   | 30         | 24   | 29 | 9   | 3.2 | 18.5 | -  | ∅5 | 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