# GF1087U

ROTARY CAM SWITCH GF SERIES, MULTI-STEP 1-2-3-4, 2 POLES 10A, FOR FRONT MOUNTING WITH BLACK HANDLE, FRONT PLATE 30X30MM

## General characteristics

| | |
|---|---|
| Switching diagram | 87 - Multi-step 1-2-3-4 2 poles |
| N° of elements | 4 |
| Mounting form | U - Front mounting with black handle |

## 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 |


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| | | | |
|---|---|---|---|
| 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 | mm² | 0.5 |
| Max | mm² | 1.5 |
| Conductor size (IEC) - Rigid cable | | |
| min | mm² | 0.5 |
| Max | mm² | 1.5 |
| Mechanical life | cycles | 1x10⁶ |

## 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 |

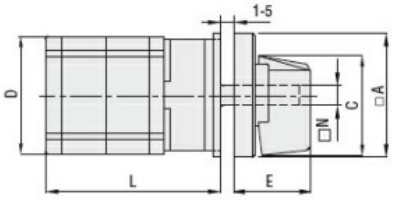
## Ambient conditions

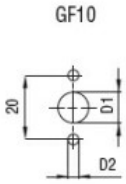
| | | |
|---|---|---|
| Temperature | | |
| Operating temperature | | |
| min | °C | -25 |
| max | °C | +55 |
| Storage temperature | | |
| min | °C | -40 |
| max | °C | +70 |

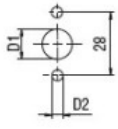
## Resistance & Protection

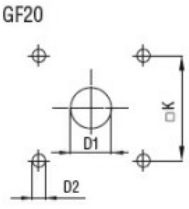
| | |
|---|---|
| Frontal IP degree | IP40 |
| Terminals IP degree | IP20 |

## Dimensions




Drillings for 4 screws fixing (4V version).

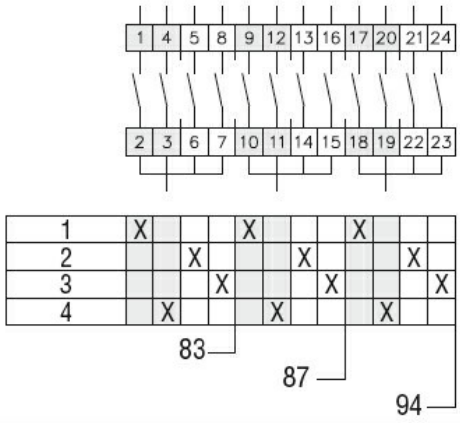
| Series | Dimensions | | | | | | | | L Number of elements | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | □A | C | D | ØD1 | ØD2 | E | □K | N | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| GF10 | 30 | 24 | 29 | 9 | 3.2 | 18.5 | – | 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


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## 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 |


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