# GF2083U

ROTARY CAM SWITCH GF SERIES, MULTI-STEP 1-2-3-4, 1 POLE 20A, FOR FRONT MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

| | | | |
|---|---|---|---|
| Product designation | | | Rotary cam switches |
| Product type designation | | | GF20 |
| **General characteristics** | | | |
| Switching diagram | | | 83 - Multi-step 1-2-3-4 1 pole |
| N° of elements | | | 2 |
| 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 | 20 |
| | UL/CSA | A | 15 |
| Rated operational voltage | | V | 480 |
| Rated operational impulse voltage | | kV | 4 |
| Maximum fuse size for short-circuit protection In (gG) | | | |
| | 10kA | A | 20 |
| | 15kA | A | 20 |
| | 25kA | A | 20 |
| Rated short time current Icw | | | |
| | 1s | kA | 250 |
| Conductivity | | | 10/5 mA/V |
| Operational current Ie IEC/EN | | | |
| AC1/AC21A | | | |
| | | A | 20 |
| AC15 | | | |
| | 110V | A | 10 |
| | 220/230V | A | 8 |
| | 380/400V | A | 6 |
| Rated operational power in AC | | | |
| Three-phase AC-3 | | | |
| | 220/230V | kW | 3 |
| | 380/440V | kW | 5 |
| Single-phase AC-3 | | | |
| | 110V | kW | 0.5 |
| | 220/230V | kW | 1.5 |
| | 380/440V | kW | 2 |
| Three-phase AC23A | | | |
| | 220/230V | kW | 4 |
| | 380/440V | kW | 7.5 |
| Single-phase AC23A | | | |
| | 110V | kW | 0.75 |
| | 220/230V | kW | 2 |
| | 380/440V | kW | 2.5 |
| Rated operational current in DC | | | |
| DC21A | | | |
| | 48V | A | 20 |
| | 60V | A | 20 |


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| | | | | |
|---|---|---|---|---|
| | | 110V | A | 4 |
| | | 220V | A | 0.7 |
| | | 440V | A | 0.2 |
| | DC13 | | | |
| | | 24V | A | 6 |
| | | 48V | A | 6 |
| | | 60V | A | 3 |
| | | 110V | A | 1 |
| | | 220V | A | 0.4 |
| | | 440V | A | 0.15 |
| Power dissipation | | | W | 0.8 |
| **Mechanical features** | | | | |
| Terminals screw | | | | M3 |
| Tightening torque for terminals max | | | Nm | 0.5 |
| Conductor size | | | | |
| | AWG - Rigid cable | | | |
| | | min | AWG | 20 |
| | | Max | AWG | 12 |
| | AWG - Flexible cable | | | |
| | | min | AWG | 20 |
| | | Max | AWG | 12 |
| | Conductor size (IEC) - Flexible cable | | | |
| | | min | mm² | 0.5 |
| | | Max | mm² | 2.5 |
| | Conductor size (IEC) - Rigid cable | | | |
| | | min | mm² | 0.5 |
| | | Max | mm² | 2.5 |
| Mechanical life | | | cycles | 1x10⁶ |
| **UL technical data** | | | | |
| Motor power for direct-on-line control | | | | |
| | for three-phase motor | | | |
| | | 240V | HP | 3 |
| | for single-phase motor | | | |
| | | 240V | HP | 1 |
| **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** | | | | |


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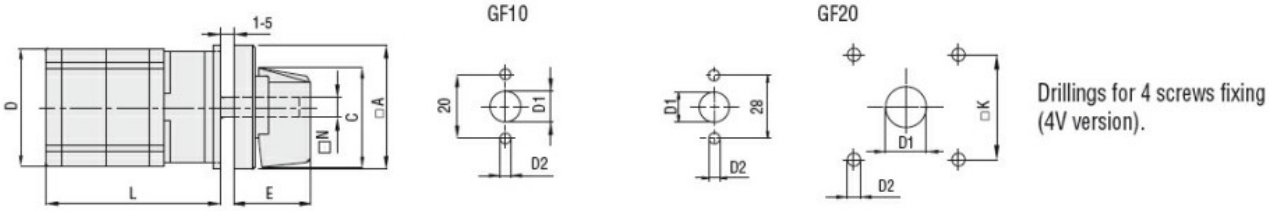
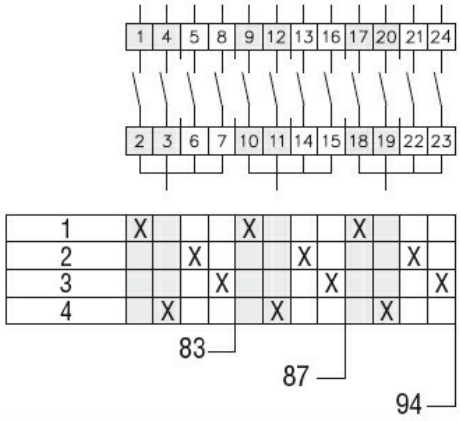



| Series | Dimensions | | | | | | | | L Number of elements | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | □A | C | D | ØD1 | ØD2 | E | □K | N | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| **GF10** | 30 | 24 | 29 | 9 | 3.2 | 18.5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