ENERGY AND AUTOMATION

electric ROTARY CAM SWITCH GF SERIES, CHANGEOVER SWITCH WITHOUT 0, 3 POLES 20A, FOR FRONT MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

| Droduct decimation | | | Rotary cam |
|--|-----------|--------|--|
| Product designation | | | switches |
| Product type designation General characteristics | | | GF20 |
| General characteristics | | | 56 - Changeover |
| Switching diagram | | | switch without 0 3 poles |
| N° of elements | | | 3 |
| 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 | ۸ | 20 |
| | UL/CSA | A | 20 15 |
| Rated operational voltage | UL/CSA | A V | 480 |
| Rated operational voltage Rated operational impulse voltage | | kV | 4 |
| Maximum fuse size for short-circuit protection In (gG) | | ΚV | |
| Waximan rase size for short should protestion in (90) | 10kA | Α | 20 |
| | 15kA | Α | 20 |
| | 25kA | Α | 20 |
| Rated short time current Icw | | | _ |
| | 1s | Α | 250 |
| Conductivity | | | 10/5 mA/V |
| Operational current le IEC/EN | | | |
| AC1/AC21A | | | |
| | | Α | 20 |
| AC15 | | | |
| | 110V | Α | 10 |
| | 220/230V | A | 8 |
| Pate Leavesting Leaves and AO | 380/400V | Α | 6 |
| Rated operational power in AC | | | |
| Three-phase AC-3 | 220/230V | kW | 3 |
| | 380/440V | kW | 5 |
| Single-phase AC-3 | 300/440 V | KVV | |
| Olligic phase Ao 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 | 40) / | Δ | 20 |
| | 48V | Α | 20 |

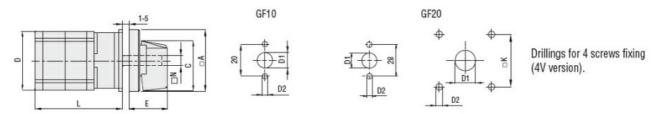
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| | | 60V | Α | 20 |
|--------------------------|---------------------------------------|------|--------|-------------------|
| | | 110V | Α | 4 |
| | | 220V | Α | 0.7 |
| | | 440V | Α | 0.2 |
| | DC13 | | | |
| | | 24V | Α | 6 |
| | | 48V | Α | 6 |
| | | 60V | Α | 3 |
| | | 110V | Α | 1 |
| | | 220V | Α | 0.4 |
| | | 440V | Α | 0.15 |
| Power dissipation | | | W | 0.8 |
| Mechanical features | | | | |
| Terminals screw | | | | M3 |
| Tightening torque for te | erminals 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 | | | |
| | Contactor Size (IZG) Tragia cable | min | mm² | 0.5 |
| | | Max | mm² | 2.5 |
| Mechanical life | | | cycles | 1x10 ⁶ |
| UL technical data | | | 0,0.00 | 1,7.1.0 |
| Motor power for direct- | on-line control | | | |
| motor power for all cot | for three-phase motor | | | |
| | Tor throo phace motor | 240V | HP | 3 |
| | for single-phase motor | 2101 | • • • | |
| | Tor single phase motor | 240V | HP | 1 |
| Ambient conditions | | 2101 | | |
| Temperature | | | | |
| Tomporatoro | Operating temperature | | | |
| | operating temperature | min | °C | -25 |
| | | max | °C | +55 |
| | Storage temperature | Παλ | | 100 |
| | Otorage temperature | min | °C | -40 |
| | | min | °C | |
| Pocietanas & Protectio | | max | U | +70 |
| Resistance & Protection | лг <u></u> - | | | ID40 |
| Frontal IP degree | | | | IP40 |
| Terminals IP degree | | | | IP20 |
| Dimensions | | | | |

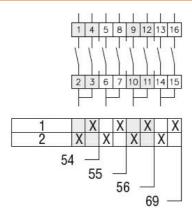
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ENERGY AND AUTOMATION



| Series | Dimensions | | | | | | | L Number of elements | | | | | | | | | | | | |
|--------|------------|------|----|-----|-----|------|----|----------------------|----|------|----|------|----|-------|-----|-------|-----|-------|-----|-------|
| | □A | С | D | ØD1 | ØD2 | Е | □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