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|--|--|
| Product designation | Rotary cam switches |
| Product type designation | GF20 |
| General characteristics | |
| Switching diagram | 25 - 1-phase motor reversing switch with spring return |
| N° of elements | 2 |
| Mounting form | U47 - Snap on front mounting with black handle for hole diam. 22mm fixng |
| 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 | |

ROTARY CAM SWITCH GF SERIES, 1-PHASE MOTOR REVERSING SWITCH WITH SPRING RETURN 20A, MODULAR SERVICE COVER FOR 35MM DIN REAIL MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

DC21A

| | | |
|------|---|-----|
| 48V | A | 20 |
| 60V | A | 20 |
| 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 | mm ² | 0.5 |
| Max | mm ² | 2.5 |

Conductor size (IEC) - Rigid cable

| | | |
|-----|-----------------|-----|
| min | mm ² | 0.5 |
| Max | mm ² | 2.5 |

| | | |
|-----------------|--------|-------------------|
| Mechanical life | cycles | 1x10 ⁶ |
|-----------------|--------|-------------------|

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

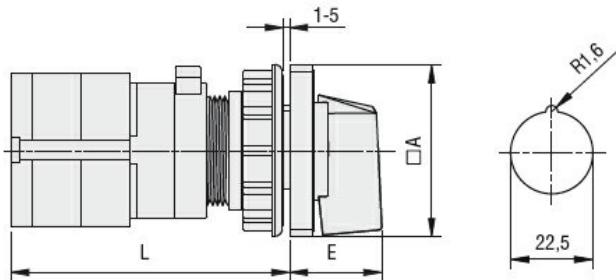
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|-----|----|-----|
| min | °C | -40 |
| max | °C | +70 |

Resistance & Protection

| | |
|-------------------|------|
| Frontal IP degree | IP40 |
|-------------------|------|

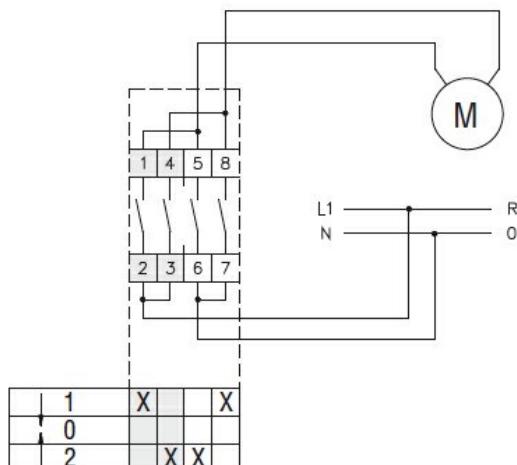
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|---------------------|------|
| Terminals IP degree | IP20 |
|---------------------|------|

Dimensions



| Series | Dimensions | | L | | | |
|--------|------------|------|----|------|---------|-------|
| | □A | E | 1 | 2 | 3.....8 | |
| GF10 | 30 | 18.5 | 60 | 72 | 84 | 144 |
| GF20 | 48 | 26.5 | 56 | 69.5 | 83 | 150.5 |

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