

|                                                        |  |  |                                      |      |
|--------------------------------------------------------|--|--|--------------------------------------|------|
| Product designation                                    |  |  | Rotary cam switches                  |      |
| Product type designation                               |  |  | GX20                                 |      |
| General characteristics                                |  |  |                                      |      |
| Switching diagram                                      |  |  | 11 - 3-phase motor reversing switch  |      |
| N° of elements                                         |  |  | 3                                    |      |
| Mounting form                                          |  |  | U - Front mounting with black handle |      |
| Contact characteristics                                |  |  |                                      |      |
| Rated insulation voltage Ui                            |  |  | IEC/EN V                             | 690  |
|                                                        |  |  | UL/CSA V                             | 600  |
| Rated impulse withstand voltage Uimp                   |  |  | kV                                   | 6    |
| Conventional free air thermal current Ith              |  |  | IEC/EN A                             | 20   |
|                                                        |  |  | UL/CSA A                             | 15   |
| Rated operational voltage                              |  |  | V                                    | 440  |
| 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 A                                 | 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    |
|                                                        |  |  | 660/690V A                           | 1.5  |
| Rated operational power in AC Three-phase AC-3         |  |  | 220/230V kW                          | 3.7  |
|                                                        |  |  | 380/440V kW                          | 5.5  |
|                                                        |  |  | 500/690V kW                          | 5.5  |
| Single-phase AC-3                                      |  |  | 110V kW                              | 0.75 |
|                                                        |  |  | 220/230V kW                          | 1.8  |
|                                                        |  |  | 380/440V kW                          | 3    |
| Three-phase AC23A                                      |  |  | 220/230V kW                          | 4    |
|                                                        |  |  | 380/440V kW                          | 7.5  |
|                                                        |  |  | 500/690V kW                          | 7.5  |
| Single-phase AC23A                                     |  |  | 110V kW                              | 0.75 |
|                                                        |  |  | 220/230V kW                          | 2.2  |
|                                                        |  |  | 380/440V kW                          | 3.5  |

Rated operational current in DC

DC21A

|      |   |      |
|------|---|------|
| 48V  | A | 20   |
| 60V  | A | 20   |
| 110V | A | 4    |
| 220V | A | 0.6  |
| 440V | A | 0.25 |

DC23A (poles in series)

|      |   |        |
|------|---|--------|
| 24V  | A | 20 (1) |
| 48V  | A | 20 (2) |
| 60V  | A | 20 (3) |
| 110V | A | 10 (3) |
| 220V | A | 8 (4)  |

DC13

|      |   |      |
|------|---|------|
| 24V  | A | 20   |
| 48V  | A | 16   |
| 60V  | A | 12   |
| 110V | A | 1    |
| 220V | A | 0.4  |
| 440V | A | 0.15 |

Power dissipation

W 0.6

#### Mechanical features

Terminals screw

M3

Tightening torque for terminals max

Nm 0.8

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 <sup>2</sup> | 0.5 |
| Max | mm <sup>2</sup> | 2.5 |

Conductor size (IEC) - Rigid cable

|     |                 |     |
|-----|-----------------|-----|
| min | mm <sup>2</sup> | 0.5 |
| Max | mm <sup>2</sup> | 2.5 |

Mechanical life

cycles 1X10<sup>6</sup>

#### UL technical data

Motor power for direct-on-line control

for three-phase motor

|      |    |     |
|------|----|-----|
| 120V | HP | 1.5 |
| 240V | HP | 3   |
| 480V | HP | 5   |
| 600V | HP | 5   |

for single-phase motor

|      |    |      |
|------|----|------|
| 120V | HP | 0.75 |
| 240V | HP | 1.5  |

#### Ambient conditions

Temperature

Operating temperature

|     |    |     |
|-----|----|-----|
| min | °C | -25 |
| max | °C | +55 |

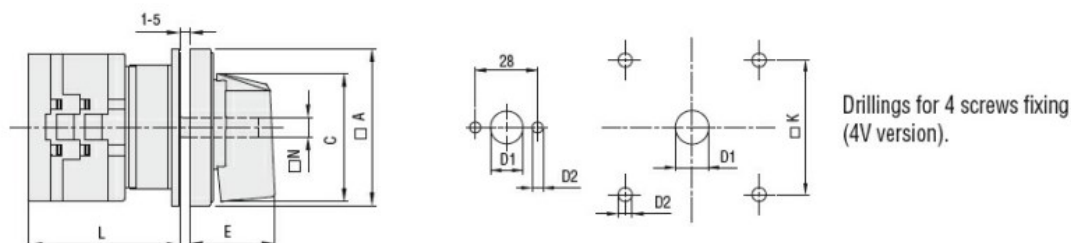
Storage temperature

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

### Resistance & Protection

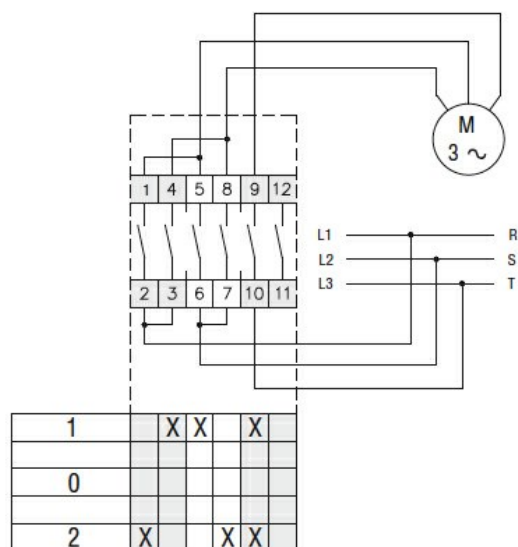
|                     |      |
|---------------------|------|
| Frontal IP degree   | IP65 |
| Terminals IP degree | IP20 |

### Dimensions



| Series | Dimensions |      |     |     |      |    |    | L Number of elements |      |    |      |    |      |     |       |     |       |     |       |
|--------|------------|------|-----|-----|------|----|----|----------------------|------|----|------|----|------|-----|-------|-----|-------|-----|-------|
|        | □A         | C    | ØD1 | ØD2 | E    | □K | □N | 1                    | 2    | 3  | 4    | 5  | 6    | 7   | 8     | 9   | 10    | 11  | 12    |
| GX16   | 48         | 39.5 | 12  | 5   | 26.5 | 36 | 6  | 43                   | 51.5 | 60 | 68.5 | 77 | 85.5 | 94  | 102.5 | 111 | 119.5 | 128 | 136.5 |
| GX20   | 48         | 39.5 | 12  | 5   | 26.5 | 36 | 6  | 43                   | 51.5 | 60 | 68.5 | 77 | 85.5 | 94  | 102.5 | 111 | 119.5 | 128 | 136.5 |
| GX32   | 65         | 53   | 14  | 5   | 34.5 | 48 | 7  | 51                   | 63   | 75 | 85   | 99 | 111  | 123 | 135   | 147 | 159   | 171 | 183   |
| GX40   | 65         | 53   | 14  | 5   | 34.5 | 48 | 7  | 51                   | 63   | 75 | 85   | 99 | 111  | 123 | 135   | 147 | 159   | 171 | 183   |

### 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

IEC/EN/BS 61058-1

UL60947-4-1

#### Certificates

cULus

EAC

### ETIM classification

ETIM 8.0

EC001105 - Off-load switch