

|                                                        |          |    |      |                                         |
|--------------------------------------------------------|----------|----|------|-----------------------------------------|
| Product designation                                    |          |    |      | Enclosed rotary cam switch              |
| Product type designation                               |          |    |      | GX20                                    |
| General characteristics                                |          |    |      |                                         |
| Switching diagram                                      |          |    |      | 107 - Multi-step 0-1-2 1 pole           |
| N° of elements                                         |          |    |      | 1                                       |
| Mounting form                                          |          |    |      | P - Plastic enclosure 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       | 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    |                                         |
|                                                        | 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 |
|-----|----|-----|

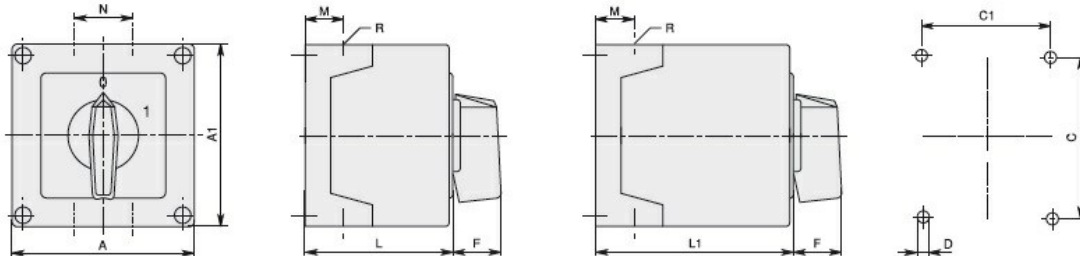
max °C +70

## Resistance & Protection

Frontal IP degree IP65

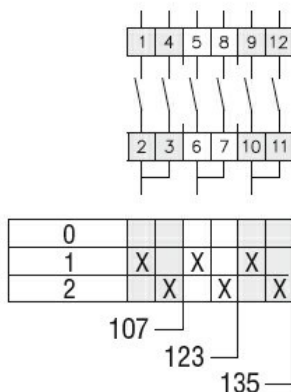
Terminals IP degree IP20

## Dimensions



|      |         |       |       |     |     |      |    |     |    |    |      |      |       |        |      |
|------|---------|-------|-------|-----|-----|------|----|-----|----|----|------|------|-------|--------|------|
| GX16 | 90x90   | 1 - 2 | 3 - 5 | 90  | 90  | 79   | 79 | 4.5 | 25 | 19 | 30   | 71.3 | 98.3  | 4xPG16 | IP65 |
| GX20 |         | 1 - 2 | 3 - 5 |     |     |      |    |     |    |    |      |      |       |        |      |
| GX16 | 110x110 | 1 - 3 | 4 - 7 | 110 | 110 | 98.4 | 83 | 4.5 | 32 | 21 | 39.5 | 85.5 | 119.5 | 4xPG21 | IP65 |
| GX20 |         | 1 - 3 | 4 - 7 |     |     |      |    |     |    |    |      |      |       |        |      |
| GX32 |         | 1 - 2 | 3 - 4 |     |     |      |    |     |    |    |      |      |       |        |      |
| GX40 |         | 1 - 2 | 3 - 4 |     |     |      |    |     |    |    |      |      |       |        |      |

## Wiring diagrams



## Certifications and compliance

### Compliance

IEC/EN/BS 60947-1

IEC/EN/BS 60947-3

IEC/EN/BS 60947-5-1

IEC/EN/BS 61058-1

### Certificates

EAC

## ETIM classification

ETIM 8.0

EC001029 -  
Selector switch,  
complete