

|   |                   |      |      |  |
|---|-------------------|------|------|--|
| Product designation                                       |                   |      |      | Enclosed rotary cam switch                             |
| Product type designation                                  |                   |      |      | GX20   |
| <b>General characteristics</b>                            |                   |      |      |  |
| Switching diagram   |                   |      |      | 25 - 1-phase motor reversing switch with spring return |
| N° of elements  |                   |      |      | 2  |
| Mounting form   |                   |      |      | P - Plastic enclosure with black handle                |
| <b>Contact characteristics</b>                            |                   |      |      |  |
| Rated insulation voltage $U_i$                            | IEC/EN            | V    | 690  |  |
|   | UL/CSA            | V    | 600  |  |
| Rated impulse withstand voltage $U_{imp}$                 |                   | kV   | 6    |  |
| Conventional free air thermal current $I_{th}$            | 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 $I_n$ (gG) | 10kA              | A    | 20   |  |
|   | 15kA              | A    | 20   |  |
|   | 25kA              | A    | 20   |  |
| Rated short time current $I_{cw}$                         |                   | 1s   | kA   | 250  |
|   |                   |      |      | 10/5 mA/V  |
| Conductivity  |                   |      |      | 10/5 mA/V  |
| Operational current $I_e$ IEC/EN                          | AC1/AC21A         |      |      | A 20   |
|   | AC15              |      |      |  |
| 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 |

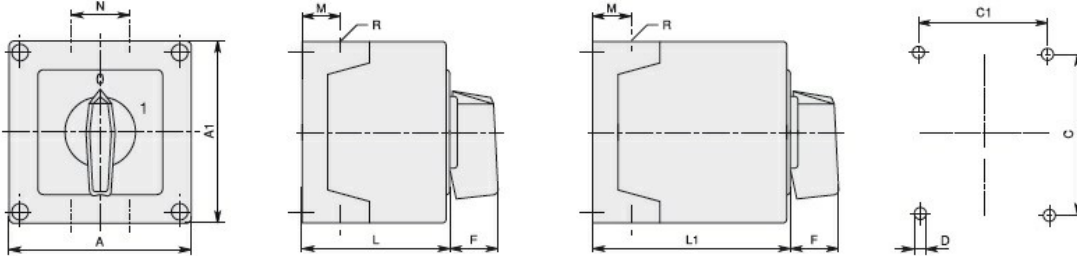
Storage temperature

min °C -40  
max °C +70

**Resistance & Protection**

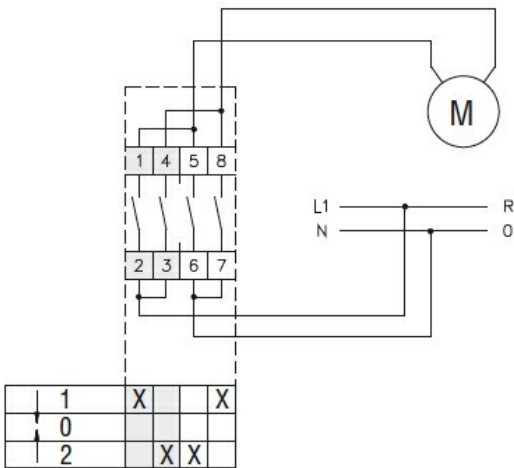
|                     |      |
|---------------------|------|
| Frontal IP degree   | IP65 |
| Terminals IP degree | IP20 |

**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 |     |     |      |    |     |    |    |      |      |       |        |      |
| GX20 |         | 1-3 | 4-7 | 110 | 110 | 98.4 | 83 | 4.5 | 32 | 21 | 39.5 | 85.5 | 119.5 | 4xPG21 | IP65 |
| 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