

|  |  |    |      |
|--|--|----|------|
| Product designation                                    | Enclosed rotary cam switch                     |    |      |
| Product type designation                               | GX20   |    |      |
| General characteristics                                |  |    |      |
| Switching diagram                                      | 12 - Star-delta motor starter switch           |    |      |
| N° of elements   | 4  |    |      |
| Mounting form  | P25 - Plastic enclosure with red/yellow 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**

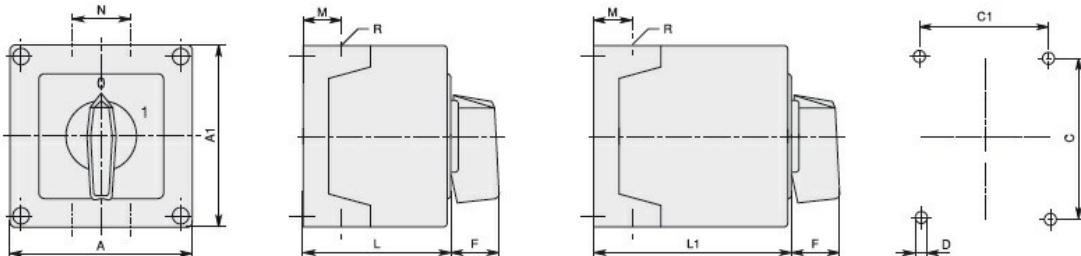
Frontal IP degree

IP65

Terminals IP degree

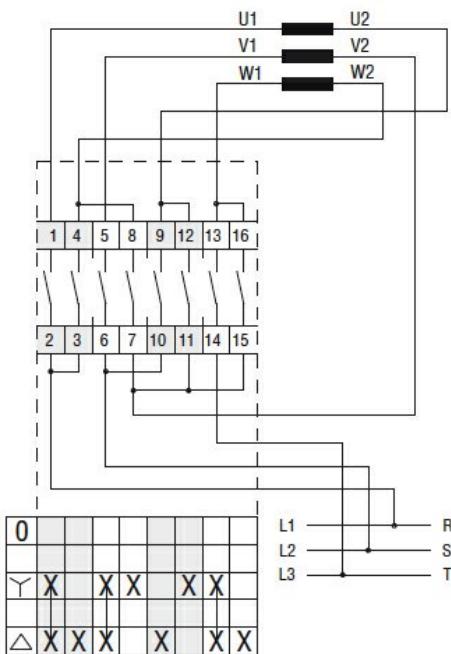
IP20

**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