

|   |  |          |    |   |
|---|--|----------|----|---|
| Product designation                                       |  |          |    | Rotary cam switches                       |
| Product type designation                                  |  |          |    | GX20                                      |
| <b>General characteristics</b>                            |  |          |    |   |
| Switching diagram   |  |          |    | 109 - Multi-step<br>0-1-2-3-4 1 pole      |
| N° of elements  |  |          |    | 2   |
| Mounting form   |  |          |    | O - Rear<br>mounting with<br>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                                       |
| Conductivity  |  |          |    | 10/5 mA/V                                 |
| Operational current $I_e$ 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               |    |
| <b>Mechanical features</b>             |      |                 |                   |    |
| 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> |    |
| <b>UL technical data</b>               |      |                 |                   |    |
| 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               |    |
| <b>Ambient conditions</b>              |      |                 |                   |    |
| Temperature                            |      |                 |                   |    |
| Operating temperature                  |      |                 |                   |    |
|  | min  | °C              | -25               |    |
|  | max  | °C              | +55               |    |
| Storage temperature                    |      |                 |                   |    |
|  | min  | °C              | -40               |    |

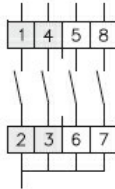
max °C +70

**Resistance & Protection**

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

**Dimensions**

**Wiring diagrams**



|   |   |   |   |   |
|---|---|---|---|---|
| 0 |   |   |   |   |
| 1 | X |   |   |   |
| 2 |   |   | X |   |
| 3 |   | X |   |   |
| 4 |   |   |   | X |

109

**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

EC001029 -  
Selector switch,  
complete