

|   |                   |      |      |   |
|---|-------------------|------|------|---|
| Product designation                                       |                   |      |      | Rotary cam switches                       |
| Product type designation                                  |                   |      |      | GX16                                      |
| <b>General characteristics</b>                            |                   |      |      |   |
| Switching diagram   |                   |      |      | 13 - Dahlander motor control switch 1-0-2 |
| N° of elements  |                   |      |      | 4   |
| Mounting form   |                   |      |      | O - Rear mounting 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    | 16   |   |
|   | UL/CSA            | A    | 12   |   |
| Rated operational voltage                                 |                   | V    | 440  |   |
| Rated operational impulse voltage                         |                   | kV   | 4    |   |
| Maximum fuse size for short-circuit protection $I_n$ (gG) | 10kA              | A    | 16   |   |
|   | 15kA              | A    | 16   |   |
|   | 25kA              | A    | 16   |   |
| 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 16                                      |
|   | AC15              |      |      |   |
|   | 110V              | A    | 10   |   |
|   | 220/230V          | A    | 8    |   |
|   | 380/400V          | A    | 4    |   |
|   | 660/690V          | A    | 1.5  |   |
| Rated operational power in AC                             | Three-phase AC-3  |      |      |   |
|   | 220/230V          | kW   | 3.5  |   |
|   | 380/440V          | kW   | 4.5  |   |
|   | 500/690V          | kW   | 5.5  |   |
|   | Single-phase AC-3 |      |      |   |
|   | 110V              | kW   | 0.55 |   |
|   | 220/230V          | kW   | 1.5  |   |
|   | 380/440V          | kW   | 2.2  |   |
|   | Three-phase AC23A |      |      |   |
|   | 220/230V          | kW   | 3.7  |   |
|   | 380/440V          | kW   | 6.5  |   |
|   | 500/690V          | kW   | 7.5  |   |
| Single-phase AC23A  |                   |      |      |   |
| 110V  | kW                | 0.75 |      |   |
| 220/230V  | kW                | 1.8  |      |   |
| 380/440V  | kW                | 3    |      |   |
| <b>Rated operational current in DC</b>                    |                   |      |      |   |

|  |      |                 |        |                   |
|--|------|-----------------|--------|-------------------|
| DC21A                                  |      |                 |        |                   |
|  | 48V  | A               |        | 16                |
|  | 60V  | A               |        | 16                |
|  | 110V | A               |        | 4                 |
|  | 220V | A               |        | 0.6               |
|  | 440V | A               |        | 0.25              |
| DC23A (poles in series)                |      |                 |        |                   |
|  | 24V  | A               |        | 16 (1)            |
|  | 48V  | A               |        | 16 (2)            |
|  | 60V  | A               |        | 16 (3)            |
|  | 110V | A               |        | 10 (3)            |
|  | 220V | A               |        | 7 (4)             |
| DC13                                   |      |                 |        |                   |
|  | 24V  | A               |        | 16                |
|  | 48V  | A               |        | 14                |
|  | 60V  | A               |        | 10                |
|  | 110V | A               |        | 1                 |
|  | 220V | A               |        | 0.4               |
|  | 440V | A               |        | 0.15              |
| Power dissipation                      |      |                 | W      | 0.6               |
| <b>Mechanical features</b>             |      |                 |        |                   |
| Terminals screw                        |      |                 |        | 3M                |
| Tightening torque for terminals max    |      |                 | Nm     | 0.5               |
| 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                 |
| <b>Ambient conditions</b>              |      |                 |        |                   |
| Temperature                            |      |                 |        |                   |
| Operating temperature                  |      |                 |        |                   |
|  | min  | °C              |        | -25               |
|  | max  | °C              |        | +55               |
| Storage temperature                    |      |                 |        |                   |
|  | min  | °C              |        | -40               |

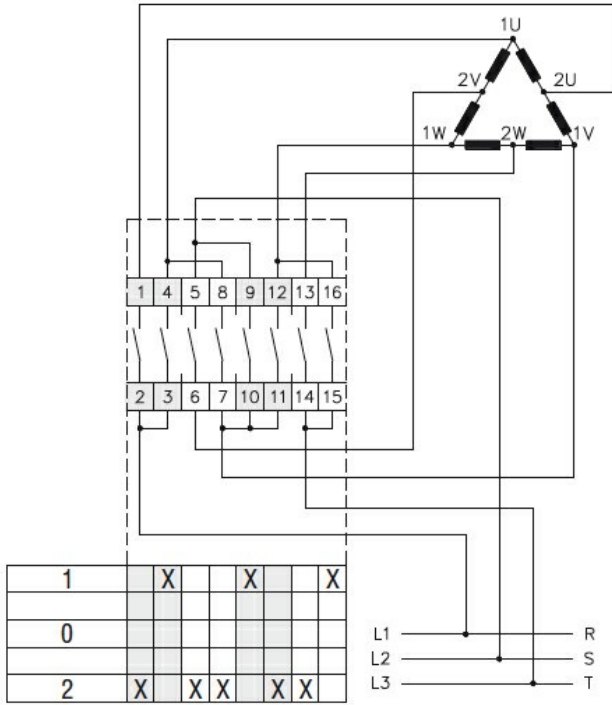
max °C +70

**Resistance & Protection**

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

**Dimensions**

**Wiring diagrams**



**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