

|   |                   |      |      |   |
|---|-------------------|------|------|---|
| Product designation                                       |                   |      |      | Rotary cam switches                       |
| Product type designation                                  |                   |      |      | GX20                                      |
| <b>General characteristics</b>                            |                   |      |      |   |
| Switching diagram   |                   |      |      | 19 - Dahlander motor control switch 0-1-2 |
| 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    | 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   | A   |
|   |                   |      |      | 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                    |      |                 |                   |

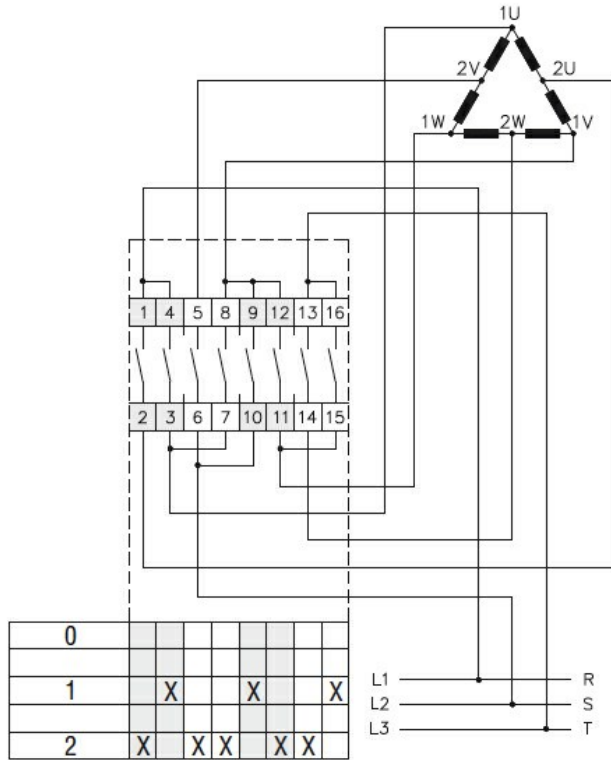
min °C -40  
max °C +70

**Resistance & Protection**

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

**Dimensions**

**Wiring diagrams**



**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