

|   |          |    |        |                     |
|---|----------|----|--------|---------------------|
| Product designation                                       |          |    |        | Rotary cam switches |
| Product type designation                                  |          |    |        | GN25                |
| <b>General characteristics</b>                            |          |    |        |                     |
| Switching diagram   |          |    |        | 53                  |
| N° of elements  |          |    |        | 3                   |
| Options   |          |    |        | Enlarged plate      |
| <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  | 25     |                     |
|   | UL/CSA   | A  | 30     |                     |
| Rated operational voltage                                 |          | V  | 480    |                     |
| Maximum fuse size for short-circuit protection $I_n$ (gG) | 10kA     | A  | 25     |                     |
|   | 25kA     | A  | 25     |                     |
| Rated short time current $I_{cw}$                         | 1s       | A  | 400    |                     |
| Operational current $I_e$ IEC/EN                          |          |    |        |                     |
| AC1/AC21A   |          | A  | 25     |                     |
| AC15  | 110V     | A  | 16     |                     |
|   | 220/230V | A  | 12     |                     |
|   | 380/400V | A  | 8      |                     |
|   | 660/690V | A  | 2      |                     |
| Rated operational power in AC                             |          |    |        |                     |
| Three-phase AC-3  | 220/230V | kW | 5.5    |                     |
|   | 500/690V | kW | 7.5    |                     |
| Single-phase AC-3   | 110V     | kW | 1.5    |                     |
|   | 220/230V | kW | 3      |                     |
|   | 380/440V | kW | 5.5    |                     |
| Three-phase AC23A   | 220/230V | kW | 6.5    |                     |
|   | 380/440V | kW | 11     |                     |
|   | 500/690V | kW | 11     |                     |
| Single-phase AC23A  | 110V     | kW | 1.5    |                     |
|   | 220/230V | kW | 3.7    |                     |
|   | 380/440V | kW | 5.5    |                     |
| Rated operational current in DC                           |          |    |        |                     |
| DC21A   | 48V      | A  | 25     |                     |
|   | 60V      | A  | 25     |                     |
|   | 110V     | A  | 4      |                     |
|   | 220V     | A  | 0.7    |                     |
| DC23A (poles in series)                                   | 24V      | A  | 25 (1) |                     |

|      |   |        |
|------|---|--------|
| 48V  | A | 25 (2) |
| 60V  | A | 25 (3) |
| 110V | A | 12 (3) |
| 220V | A | 10 (4) |

DC13

|      |   |     |
|------|---|-----|
| 24V  | A | 25  |
| 48V  | A | 20  |
| 60V  | A | 16  |
| 110V | A | 1.5 |
| 220V | A | 0.4 |

**Mechanical features**

Terminals screw M3.5

Tightening torque for terminals max Nm 0.8

Conductor size

AWG - Rigid cable

|     |     |    |
|-----|-----|----|
| min | AWG | 20 |
| Max | AWG | 10 |

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> | 4   |

Conductor size (IEC) - Rigid cable

|     |                 |     |
|-----|-----------------|-----|
| min | mm <sup>2</sup> | 0.5 |
| Max | mm <sup>2</sup> | 4   |

Mechanical life cycles 5x10<sup>6</sup>

**UL technical data**

Motor power for direct-on-line control

for three-phase motor

|      |    |    |
|------|----|----|
| 480V | HP | 10 |
|------|----|----|

**Ambient conditions**

Temperature

Operating temperature

|     |    |     |
|-----|----|-----|
| min | °C | -25 |
| max | °C | +55 |

Storage temperature

|     |    |     |
|-----|----|-----|
| min | °C | -40 |
| max | °C | +70 |

**Resistance & Protection**

Frontal IP degree IP40

Terminals IP degree IP00

**ETIM classification**

ETIM 8.0

EC001029 -  
Selector switch,  
complete