

|   |                  |    |        |                     |
|---|------------------|----|--------|---------------------|
| Product designation                                       |                  |    |        | Rotary cam switches |
| Product type designation                                  |                  |    |        | GN12                |
| <b>General characteristics</b>                            |                  |    |        |                     |
| Switching diagram   |                  |    |        | 15                  |
| <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  | 15     |                     |
| Rated operational voltage                                 |                  |    | V      | 480                 |
| Maximum fuse size for short-circuit protection $I_n$ (gG) | 10kA             | A  | 16     |                     |
|   | 25kA             | A  | 10     |                     |
| Rated short time current $I_{cw}$                         |                  |    | 1s     | A                   |
|   |                  |    |        | 200                 |
| Operational current $I_e$ IEC/EN                          | AC1/AC21A        |    |        | A                   |
|   | 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 | 2.5    |                     |
|   | 380/440V         | kW | 4      |                     |
|   | 500/690V         | kW | 5.5    |                     |
| Single-phase AC-3   | 110V             | kW | 0.8    |                     |
|   | 220/230V         | kW | 1.5    |                     |
|   | 380/440V         | kW | 2.2    |                     |
| Three-phase AC23A   | 220/230V         | kW | 3      |                     |
|   | 380/440V         | kW | 5.5    |                     |
|   | 500/690V         | kW | 7.5    |                     |
| Single-phase AC23A  | 110V             | kW | 0.8    |                     |
|   | 220/230V         | kW | 1.7    |                     |
|   | 380/440V         | kW | 3      |                     |
| Rated operational current in DC                           | DC21A            |    |        |                     |
|   | 48V              | A  | 12     |                     |
|   | 60V              | A  | 12     |                     |
|   | 110V             | A  | 4      |                     |
|   | 220V             | A  | 0.6    |                     |
|   | 440V             | A  | 0.25   |                     |
| DC23A (poles in series)                                   | 24V              | A  | 10 (1) |                     |

|      |   |        |
|------|---|--------|
| 48V  | A | 10 (2) |
| 60V  | A | 10 (3) |
| 110V | A | 5 (3)  |
| 220V | A | 5 (4)  |

DC13

|      |   |      |
|------|---|------|
| 24V  | A | 12   |
| 48V  | A | 10   |
| 60V  | A | 8    |
| 110V | A | 1    |
| 220V | A | 0.4  |
| 440V | A | 0.15 |

**Mechanical features**

|                 |    |
|-----------------|----|
| Terminals screw | M3 |
|-----------------|----|

|                                     |    |     |
|-------------------------------------|----|-----|
| Tightening torque for terminals max | Nm | 0.5 |
|-------------------------------------|----|-----|

Conductor size

AWG - Rigid cable

|     |     |    |
|-----|-----|----|
| min | AWG | 20 |
| Max | AWG | 14 |

AWG - Flexible cable

|     |     |    |
|-----|-----|----|
| min | AWG | 20 |
| Max | AWG | 16 |

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 | 3x10 <sup>6</sup> |
|-----------------|--------|-------------------|

**UL technical data**

Motor power for direct-on-line control

for three-phase motor

|      |    |   |
|------|----|---|
| 240V | HP | 3 |
|------|----|---|

**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