



AZM 170-02ZKA-ST 24VAC/DC

- Thermoplastic enclosure
- Double-insulated
- Compact design
- Interlock with protection against incorrect locking.
- Long life
- High holding force

Data

Ordering data

| | |
|-------------------------------|---------------------------|
| Product type description | AZM 170-02ZKA-ST 24VAC/DC |
| Article number (order number) | 101176751 |
| EAN (European Article Number) | 4030661307220 |
| eCl@ss number, version 12.0 | 27-27-26-03 |
| eCl@ss number, version 11.0 | 27-27-26-03 |
| eCl@ss number, version 9.0 | 27-27-26-03 |
| ETIM number, version 7.0 | EC002593 |
| ETIM number, version 6.0 | EC002593 |

Approvals - Standards

| | |
|--------------|--------------------|
| Certificates | BG cULus CCC |
|--------------|--------------------|

General data

| | |
|--|---|
| Standards | EN ISO 13849-1 EN ISO 14119 EN IEC 60947-5-1 |
| Coding level according to EN ISO 14119 | Low |
| Working principle | electromechanical |
| Housing material | Plastic, glass-fibre reinforced thermoplastic, self-extinguishing |
| Gross weight | 280 g |

General data - Features

| | |
|--------------------------------|-----|
| Power to lock | Yes |
| Manual release | Yes |
| Number of actuating directions | 2 |
| Number of auxiliary contacts | 1 |
| Number of safety contacts | 2 |

Safety classification

| | |
|---|--------------------------------------|
| Standards | EN ISO 13849-1 |
| Performance Level, up to | c |
| Category | 1 |
| B _{10D} Normally-closed contact (NC) | 2,000,000 Operations |
| Note | Electrical life on request. |
| B _{10D} Normally-open contact (NO) | 1,000,000 Operations |
| Note | at 10% I _e and ohmic load |
| Mission time | 20 Year(s) |

Safety classification - Fault exclusion

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|--------------------------|---|
| Please note: | Can be used when fault exclusion for dangerous damage to the 1-channel mechanism is permissible and sufficient protection against manipulation is guaranteed. |
| Performance Level, up to | d |
| Category | 3 |

Note for 2-channel use and with suitable logic unit.

Mission time 20 Year(s)

Mechanical data

Mechanical life, minimum 1,000,000 Operations

Holding force F_{Zh} in accordance with EN ISO 14119 1,000 N

Holding force F_{max} , maximum 1,300 N

Latching force 5 N

Positive break travel 11 mm

Positive break force per NC contact, minimum 8.5 N

Positive break force, minimum 17 N

Actuating speed, maximum 2 m/s

Mounting Screws

Type of the fixing screws 2x M5

Tightening torque of the fastening screws for the housing cover, minimum 0.7 Nm

Tightening torque of the fastening screws for the housing cover, maximum 1 Nm

Note Torx T10

Mechanical data - Connection technique

Termination Connector plug M12, 4-pole, (A-coding)
Connector plug M12, 4-pole, (B-coding)

Mechanical data - Dimensions

Length of sensor 30 mm

Width of sensor 90 mm

Height of sensor 75.5 mm

Ambient conditions

| | |
|--|----------------|
| Degree of protection | IP67 |
| Ambient temperature | -25 ... +60 °C |
| Storage and transport temperature, minimum | -25 °C |
| Storage and transport temperature, maximum | +85 °C |
| Protection class | II |
| Permissible installation altitude above sea level, maximum | 2,000 m |

Ambient conditions - Insulation values

| | |
|---|---------|
| Rated insulation voltage U_i | 250 VAC |
| Rated impulse withstand voltage U_{imp} | 2.5 kV |
| Overvoltage category | III |
| Degree of pollution | 3 |

Electrical data

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|---------------------------------------|--|
| Thermal test current | 4 A |
| Rated control voltage | 24 VAC/DC |
| Required rated short-circuit current | 1,000 A |
| Electrical power consumption, maximum | 12 W |
| Switching element | Opener (NC) |
| Note (Switching element) | Change-over contact with double break, type Zb or 2 NC contacts, with galvanically separated contact bridges |
| Switching principle | slow action, positive break NC contact |
| Switching frequency | 1,000 /h |
| Material of the contacts, electrical | Silver |

Electrical data - Magnet control

| | |
|------------------------------|-------|
| Magnet switch-on time | 100 % |
| Test pulse duration, maximum | 5 ms |
| Test pulse interval, minimum | 50 ms |

Electrical data - Safety contacts

| | |
|-------------------------------------|------------------|
| Voltage, Utilisation category AC-15 | 230 VAC |
| Current, Utilisation category AC-15 | 4 A |
| Voltage, Utilisation category DC-13 | 24 VDC |
| Current, Utilisation category DC-13 | 4 A |
| Note, Utilisation category DC-13 | Connector 4-pole |

Electrical data - Auxiliary contacts

| | |
|----------------------------------|-----------------|
| Note, Utilisation category DC-13 | Connector 4-pin |
|----------------------------------|-----------------|

Other data

| | |
|---------------------|--|
| Note (applications) | sliding safety guard removable guard hinged safety guard |
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Scope of delivery

| | |
|-------------------|--------------------------------------|
| Scope of delivery | Actuator must be ordered separately. |
|-------------------|--------------------------------------|

Ordering code

Product type description:
AZM 170(1)-(2)Z(3)K(4)-(5)-(6)-(7)-(8)

(1)

without

Cut clamps

SK

Screw connection

(2)

| | |
|-----------------|--|
| 11 | 1 NO contacts/1 NC contact |
| 02 | 2 NC contact |
| (3) | |
| without | Latching force 5 N |
| R | Latching force 30 N |
| (4) | |
| without | Power to unlock |
| A | Power to lock |
| (5) | |
| without | Cable entry M20 |
| ST | 2 connector, M12, 4-pin |
| ST-2431 | As well as ST; individual solenoid monitoring |
| ST8 | Connector M12 8-pole |
| (6) | |
| 24VAC/DC | Us 24 VAC/DC |
| 110VAC | Us 110 VAC |
| 230VAC | Us 230 VAC |
| (7) | |
| 1637 | Gold-plated contacts |
| (8) | |
| without | Manual release |
| 2197 | Manual release from side (Standard in case of conector and power to unlock versions) |

Pictures

Product picture (catalogue individual photo)



ID: kazm1f04

| 620.3 kB | .jpg | 352.425 x 356.658 mm - 999 x 1011 px - 72 dpi

| 48.7 kB | .png | 74.083 x 74.789 mm - 210 x 212 px - 72 dpi

| 71.0 kB | .jpg | 122.061 x 123.472 mm - 346 x 350 px - 72 dpi

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The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

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