Datasheet - AZM 415-02/11ZPKA 110 VAC

Solenoid interlock / AZM 415





(Minor differences between the printed image and the original product may exist!)

- Metal enclosure
- · Interlock with protection against incorrect locking.
- Robust design
- · Long life
- 2 cable entries M 20 x 1.5
- Cut clamp termination
- Adjustable ball latch to 400 N
- 2 switches in one enclosure
- Problem-free opening of stressed doors by means of bell-crank system
- Ex version available
- 130 mm x 100 mm x 46,5 mm

Ordering details

Product type description

Article number

EAN Code

eCl@ss

AZM 415-02/11ZPKA 110 VAC

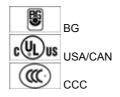
101174557

4030661332000

27-27-26-03

Approval

Approval



Classification

Standards

B10d Normally-closed contact (NC)

Mission time

notice

EN ISO 13849-1

2.000.000

20 Years

$$MTTF_d = \frac{B_{10d}}{0.1 \times n_{op}}$$

$$n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{t_{oyole}}$$

Global Properties

Permanent light

Standards

AZM 415

EN 60947-5-1, BG-GS-ET-19

Compliance with the Directives (Y/N) € €
Number of guard doors

Number of actuating directions

Active principle
Duty cycle ED

Materials

Material of the housingsMaterial of the contactsHousing coating

Weight

Yes

1

electromechanical
Magnet 100 %

Aluminium Silver painted 897

Mechanical data

Design of electrical connection

Cable section

Min. Cable sectionMax. Cable section

Mechanical life

notice

Emergency unlocking device (Y/N) Manual release (Y/N)

Emergency release (Y/N)

Latching force
Positive break force
positive break travel

Clamping force F
Max. Actuating speed

Screw connection

2 x 0,75 mm²

2 x 2.5 mm²

> 1.000.000 operations

All indications about the cable section are including the conductor ferrules.

No No

No 150 N ... 400 N

15 N min.

5 3500 N

0,2 m/s

Ambient conditions

Ambient temperature

Min. environmental temperatureMax. environmental temperature

Protection class

-25 °C

+50 °C

IP67 to IEC/EN 60529

Electrical data

Design of control element

Switching principle

Number of auxiliary contacts

Number of safety contacts

Power to unlock
Power to lock

Rated control voltage Us
Power consumption

Rated insulation voltage Ui
Thermal test current Ithe

Rated impulse withstand voltage Uimp

Utilisation category

Max. fuse rating

Normally open contact (NO), Opener (NC)

Creep circuit element

3 No

1

No Yes

110 V AC max. 10 W 4 kV

250 V 6 A

AC-15: 230 V / 4 A, DC-13: 24 V / 1 A

6 A gG D-fuse

ATEX

Miscellaneous data

Applications



sliding safety guard

hinged safety guard

Dimensions

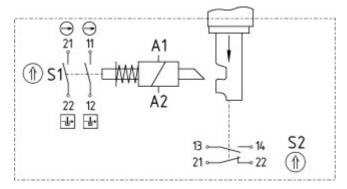
Dimensions of the sensor

- Width of sensor 130
- Height of sensor- Length of sensor46.5

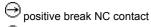
notice - Dimensional drawing

A setting screw Ball latch

Diagram



Note Diagram







O—___O Normally-open contact

o----- Normally-closed contact

Ordering suffix

The applicable ordering suffix is added at the end of the part number of the safety switch. Order example: AZM 415-02/11ZPKA 110 VAC-1637

...-1637

0,3 µm gold-plated contacts

Ordering code

AZM 415-(1)(2)PK(3)-(4) (5)(6)-(7)

(1)

11/11

11/02 3 Opener (NC) / 1 Normally open contact (NO)
11/20 1 Opener (NC) / 3 Normally open contact (NO)
02/11 3 Opener (NC) / 1 Normally open contact (NO)
02/20 2 Opener (NC) / 2 Normally open contact (NO)

02/02 4 Opener (NC)

(2)

X Protection class IP54
Z Protection class IP67

(3)

without Power to unlock

A Power to lock

(4)

STR connector M23 right
ST connector M23 bottom

(5)

without without Manual release

E Manual release using triangular key

F using triangular key (secured with locking screw)

FE using triangular key

RS Manual release with key

T Emergency exit using latched pushbutton (only for Power to unlock)

TE Emergency exit and Manual release, Mounting outside (only for Power to

unlock)

TEI Emergency exit and Manual release, Mounting inside (only for Power to

unlock)

NS Emergency release using lock button

(6)

 24VAC/DC
 Us: 24 VAC/DC

 110VAC
 Us: 110 VAC

 230VAC
 Us: 230 VAC

(7)

1637 gold-plated contacts

AZM 415 for double doors

AZM 415-33ZPDK(1)(2) (3)(4)

(1)

A Power to lock

(2)

STconnector M23 rightwithoutPower to unlockSTRconnector M23 bottom

(3)

without without Manual release

E Manual release using triangular key (only for Power to unlock)

(4)

1637 gold-plated contacts

Documents

Operating instructions and Declaration of conformity (cn) 577 kB, 24.09.2018

Code: mrl_azm415xx-xx_cn

Operating instructions and Declaration of conformity (es) 452 kB, 24.09.2018

Code: mrl azm415xx-xx es

Operating instructions and Declaration of conformity (nl) 491 kB, 24.09.2018

Code: mrl_azm415xx-xx_nl

Operating instructions and Declaration of conformity (fr) 468 kB, 24.09.2018

Code: mrl_azm415xx-xx_fr

Operating instructions and Declaration of conformity (pl) 502 kB, 24.09.2018

Code: mrl_azm415xx-xx_pl

Operating instructions and Declaration of conformity (it) 462 kB, 24.09.2018

Code: mrl azm415xx-xx it

Operating instructions and Declaration of conformity (jp) 508 kB, 24.09.2018

Code: mrl_azm415xx-xx_jp

Operating instructions and Declaration of conformity (en) 541 kB, 18.12.2018

Code: mrl_azm415xx-xx_en

Operating instructions and Declaration of conformity (da) 384 kB, 08.08.2012

Code: mrl_azm415xx-xx_da

Operating instructions and Declaration of conformity (pt) 467 kB, 24.09.2018

Code: mrl_azm415xx-xx_pt

Operating instructions and Declaration of conformity (de) 510 kB, 18.12.2018

Code: mrl_azm415xx-xx_de

BG-test certificate (en) 1 MB, 08.01.2018

Code: z_i41p02

BG-test certificate (de) 1 MB, 08.01.2018

Code: z_i41p01

CCC certification (cn) 2 MB, 17.01.2018

Code: q_azmp05

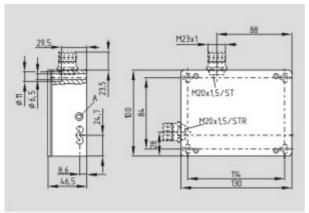
CCC certification (en) 2 MB, 17.01.2018

Code: q_azmp04

notice (de, en, fr) 108 kB, 28.02.2007

Code: s_zm4p01

Images



Dimensional drawing (basic component)

System components

Actuator



1128545 - AZ/AZM 415-B1

- · For sliding doors
- · Actuators with return spring
- Tolerates up to max. 6 mm overtravel



1144796 - AZ/AZM 415-B2

- Particularly suitable for hinged guards
- For very smal actuating radii in line with the plane of the actuator



1144797 - AZ/AZM 415-B3

- Particularly suitable for hinged guards
- For very smal actuating radii at 90° to the plane of the actuator



101142540 - AZ/AZM 415-B4PS

- For sliding doors
- with locking bolt and ball latch

Door-handle system



AZM 415-STS30

- Latching handle
- Suitable for all types of guard
- einsetzbar in Verbindung mit EX-AZM 415

Accessories



101100887 - TRIANGULAR KEY TK-M5

- For manual release using M5 triangular key, available as accessory
- For maintenance, installation, etc.

K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, D-42279 Wuppertal The data and values have been checked throroughly. Technical modifications and errors excepted. Generiert am 13.02.2019 - 14:48:07h Kasbase 3.3.0.F.64I