



009979 AT0-11-2-IA

Overview

Specifications

Resources







DELIVERY PROGRAM

Delivery program

Technical data

Basic function Position switches Safety position switches

Design verification as per IEC/EN 61439

Part group reference AT0

Technical data ETIM 7.0

Product range Rounded plunger

Degree of Protection IP65

Features

Basic device, expandable

Ambient temperature -25 - +70 °C

Design EN 50047 Form B Approval

totally insulated

Contacts

NO = Normally open 1 NO

NC = Normally closed 1 NC

Notes

 $_{\mbox{\tiny \square}}$ = safety function, by positive opening to IEC/EN 60947-5-1

Contact sequence



Contact travel■ = Contact closed□ = Contact open

17-18 25-26 0 2.1 3.4 6 mm 2w = 4.7 mm

Positive opening (ZW)

yes

Colour

Enclosure covers Grey

Enclosure covers



Housing Insulated material

Connection type Screw terminal

Notes

For degree of protection IP65, use V-M20 (206910) cable glands with connecting thread of max. 9 mm length.

TECHNICAL DATA

General Standards IEC/EN 60947 Climatic proofing Damp heat, constant, to IEC 60068-2-78; damp heat, cyclical, to IEC 60068-2-30 Ambient temperature -25 - +70 °C Mounting position As required Degree of Protection IP65 Terminal capacities Solid 1 x (0.75 - 2.5) 2 x (0.75 - 1.5) mm² Terminal capacities Flexible with ferrule 1 x (0.5 - 1.5) 2 x (0.5 - 1.5) mm²

Contacts/switching capacity

Repetition accuracy

0.02 mm

Rated impulse withstand voltage [U_{mp}] 6000 V AC

Rated insulation voltage [Ui] 500 V Overvoltage category/pollution degree Rated operational current [le] AC-15 $24\,V\,[l_{\rm e}\,]$ 10 A Rated operational current [le] AC-15 220 V 230 V 240 V [l_e] 6 A Rated operational current [I_e] AC-15 380 V 400 V 415 V [le] 4 A Rated operational current [I_e] DC-13 24 V [l_e] 10 A Rated operational current [le] DC-13 110 V [l_e] 1 A Rated operational current [le] DC-13 220 V [l_e] 0.5 A Supply frequency max. 400 Hz

Short-circuit rating to IEC/EN 60947-5-1 max. fuse 6 A gG/gL

Mechanical variables

Lifespan, mechanical [Operations] 20 x 10⁶

Notes

(If approached from the side: 6)

Contact temperature of roller head
□ 100 °C

Mechanical shock resistance (half-sinusoidal shock, 20 ms) Standard-action contact 25 g

Mechanical shock resistance (half-sinusoidal shock, 20 ms)
Snap-action contact
2 g

Operating frequency [Operations/h] \square 6000

Actuation

Mechanical Actuating force at beginning/end of stroke 1.0/8.0 N

Mechanical Actuating torque of rotary drives 0.2 Nm

Mechanical
Max. operating speed with DIN cam
1/0.5 m/s

Mechanical **Notes** for angle of actuation α = 0°/30°

DESIGN VERIFICATION AS PER IEC/EN 61439

Technical data for design verification

dissipation $[I_n]$ 6 A

Heat dissipation per pole, current-dependent $[P_{id}] \\ 0.13\,W$

Equipment heat dissipation, current-dependent $[P_{\text{vid}}]$ 0 W

Static heat dissipation, non-current-dependent $[P_{\!\scriptscriptstyle V\!S}]$ 0 W

Heat dissipation capacity $[P_{diss}]$ 0 W

Operating ambient temperature min. -25 °C

Operating ambient temperature max. +70 °C

IEC/EN 61439 design verification

10.2 Strength of materials and parts10.2.2 Corrosion resistanceMeets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.1 Verification of thermal stability of enclosures Meets the product standard's requirements.

10.2 Strength of materials and parts10.2.3.2 Verification of resistance of insulating materials to normal heatWeets the product standard's requirements.

10.2 Strength of materials and parts
10.2.3.3 Verification of resistance of insulating
materials to abnormal heat and fire due to internal
electric effects
Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.4 Resistance to ultra-violet (UV) radiation Weets the product standard's requirements. 10.2 Strength of materials and parts10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.6 Mechanical impactDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.7 InscriptionsMeets the product standard's requirements.

10.3 Degree of protection of ASSEVBLIES

Does not apply, since the entire switchgear needs
to be evaluated.

10.4 Clearances and creepage distances Weets the product standard's requirements.

10.5 Protection against electric shock
Does not apply, since the entire switchgear needs
to be evaluated.

10.6 Incorporation of switching devices and components

Does not apply, since the entire switchgear needs to be evaluated.

10.7 Internal electrical circuits and connections is the panel builder's responsibility.

10.8 Connections for external conductors Is the panel builder's responsibility.

10.9 Insulation properties 10.9.2 Power-frequency electric strength Is the panel builder's responsibility.

10.9 Insulation properties10.9.3 Impulse withstand voltageIs the panel builder's responsibility.

10.9 Insulation properties 10.9.4 Testing of enclosures made of insulating material Is the panel builder's responsibility.

10.10 Temperature rise
The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear must be observed.

10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear must be observed.

10.13 Mechanical function

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

TECHNICAL DATA ETIM 7.0

Sensors (EG000026) / End switch (EC000030)

Bectric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Position switch / Position switch (Type 1) (ecl@ss10.0.1-27-27-06-01 [AGZ382015])

Width sensor 51 mm

Diameter sensor 0 mm

Height of sensor 51 mm

Length of sensor 0 mm

Rated operation current le at AC-15, 24 V $10\,\mathrm{A}$

Rated operation current le at AC-15, 125 V 0 A
Rated operation current le at AC-15, 230 V 6 A
Rated operation current le at DC-13, 24 V 10 A
Rated operation current le at DC-13, 125 V 1 A
Rated operation current le at DC-13, 230 V 0.5 A
Switching function Slow-action switch
Switching function latching No
Output electronic No
Forced opening Yes
Number of safety auxiliary contacts 1
Number of contacts as normally closed contact 1
Number of contacts as normally open contact 1
Number of contacts as change-over contact 0
Type of interface None

Type of interface for safety communication None
Construction type housing Cuboid
Material housing Flastic
Coating housing Other
Type of control element Flunger
Alignment of the control element Other
Type of electric connection Other
With status indication No
Suitable for safety functions Yes
Explosion safety category for gas None
Explosion safety category for dust None
Ambient temperature during operating 25 - 70 °C
Degree of protection (IP) IP65
Degree of protection (NEVA) Other







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