



007606
AT0-11-1-IA

Overview

Specifications

Resources



Delivery program

Technical data

Design verification as
per IEC/EN 61439

Technical data ETIM 7.0

DELIVERY PROGRAM

Basic function
Position switches
Safety position switches

Part group reference
AT0

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

N/O = Normally open

1 NO

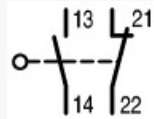
N/C = Normally closed

1 NC ☐

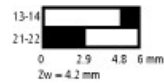
Notes

☐ = safety function, by positive opening to IEC/EN 60947-5-1

Contact sequence



Contact travel ■ = Contact closed ☐ = Contact open



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

Repetition accuracy
0.02 mm

Contacts/switching capacity

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

Rated insulation voltage [U]
500 V

Overvoltage category/pollution degree
III/3

Rated operational current [I_e]
AC-15
24 V [I_e]
10 A

Rated operational current [I_e]
AC-15
220 V 230 V 240 V [I_e]
6 A

Rated operational current [I_e]
AC-15
380 V 400 V 415 V [I_e]
4 A

Rated operational current [I_e]
DC-13
24 V [I_e]
10 A

Rated operational current [I_e]
DC-13
110 V [I_e]
1 A

Rated operational current [I_e]
DC-13
220 V [I_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]

□ 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 $\alpha = 0^\circ/30^\circ$

DESIGN VERIFICATION AS PER IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat

dissipation [I_r]
6 A

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

Equipment heat dissipation, current-dependent
[P_{id}]
0 W

Static heat dissipation, non-current-dependent [P_{is}]
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 parts
10.2.2 Corrosion resistance
Meets 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 parts
10.2.3.2 Verification of resistance of insulating materials to normal heat
Meets 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
Meets the product standard's requirements.

10.2 Strength of materials and parts

10.2.5 Lifting

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

10.2 Strength of materials and parts

10.2.6 Mechanical impact

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

10.2 Strength of materials and parts

10.2.7 Inscriptions

Meets the product standard's requirements.

10.3 Degree of protection of ASSEMBLIES

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

10.4 Clearances and creepage distances

Meets 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 properties

10.9.3 Impulse withstand voltage

Is 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)

Electric 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 I_e at AC-15, 24 V

10 A

Rated operation current I_e at AC-15, 125 V
0 A

Rated operation current I_e at AC-15, 230 V
6 A

Rated operation current I_e at DC-13, 24 V
10 A

Rated operation current I_e at DC-13, 125 V
1 A

Rated operation current I_e at DC-13, 230 V
0.5 A

Switching function
Slow-action switch

Switching function latching
No

Output electronic
No

Forced opening
No

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
Plastic

Coating housing
Other

Type of control element
Plunger

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

