



095417  
AT4/11-1//R316

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## DELIVERY PROGRAM

Basic function  
Position switches  
Safety position switches

Part group reference  
AT4

Product range  
Rotary lever

Degree of Protection  
IP65

Features  
Complete unit

Ambient temperature  
-25 - +70 °C

Design  
EN 50041 Form A

Approval

**totally insulated**

## Contacts

N/O = Normally open

1 NO

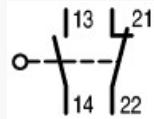
N/C = Normally closed

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

The operating head can be rotated at 90° intervals to adapt to the specified approach direction.  
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) mm<sup>2</sup>

Terminal capacities  
Flexible with ferrule  
1 x (0.5 - 1.5)  
2 x (0.5 - 1.5) mm<sup>2</sup>

Repetition accuracy  
0.02 mm

### Contacts/switching capacity

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

Rated insulation voltage [ $U_i$ ]  
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

Rated conditional short-circuit current

1 kA

## Mechanical variables

Lifespan, mechanical [Operations]  
 $8 \times 10^6$

Contact temperature of roller head  
☐ 100 °C

Mechanical shock resistance (half-sinusoidal  
shock, 20 ms)  
Standard-action contact  
5 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  
8.0/20.0 N

Mechanical  
Actuating torque of rotary drives  
0.3 Nm

# DESIGN VERIFICATION AS PER IEC/EN 61439

## Technical data for design verification

Rated operational current for specified heat  
dissipation [ $I_n$ ]  
6 A

Heat dissipation per pole, current-dependent [ $P_{\text{vd}}$ ]  
0.1 W

Equipment heat dissipation, current-dependent  
[P<sub>vid</sub>]  
0 W

Static heat dissipation, non-current-dependent [P<sub>vs</sub>]  
0 W

Heat dissipation capacity [P<sub>diss</sub>]  
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  
40 mm

Diameter sensor  
0 mm

Height of sensor  
83 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  
0.4 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  
Plastic

Coating housing  
Other

Type of control element  
Rotary lever

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 (NEMA)  
Other

## APPROVALS

Product Standards

UL 508; CSA-C22.2 No. 14; IEC/EN 60947-4-1; CE  
marking

UL File No.  
E29184

UL Category Control No.  
NKCR

CSA File No.  
12528

CSA Class No.  
3211-03

North America Certification  
UL listed, CSA certified

Specially designed for North America  
No

Suitable for  
Branch circuits

Max. Voltage Rating  
600 V AC

Degree of Protection  
UL: 1, 4X; CSA: 1, 3R, 4, 4X, 12, 13



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