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T0-2-8260/XZ - Step switch, 2p, Ie=12A, FS 0-2, 45°, maintained, 48x48 mm, rear mounting



011765 T0-2-8260/XZ

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## 011765 T0-2-8260/XZ

Step switch, 2p, Ie=12A, FS 0-2, 45°, maintained, 48x48 mm, rear mounting

EL-Nummer (Norway)

1456694

Control switch, Product range: Control switches, Standards: IEC/EN 60947, VDE 0660, IEC/EN 60204, Switch-disconnector according to IEC/EN 60947-3, Part group reference: T0, Contacts: 4, Design: rear mounting, Basic switch, Switching angle: 45 °, 2 contact unit(s), Rated uninterrupted current: Iu= 20 A

• [Delivery program](#)

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• [Design verification as per IEC/EN 61439](#)

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### Delivery program

Product range

Control switches

Part group reference

T0

Contacts

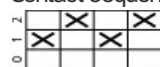
4

Design

rear mounting

Basic switch

Contact sequence

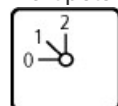


Switching angle  
45 °

Design number

8260

Front plate no.



FS 418

Motor rating AC-23A, 50 - 60 Hz [P]

400 V [P]

5.5 kW

Rated uninterrupted current [I<sub>u</sub>]

20 A

Note on rated uninterrupted current I<sub>u</sub>

Rated uninterrupted current I<sub>u</sub> is specified for max. cross-section.

Number of contact units

2 contact unit(s)

## Technical data

### General

### Standards

IEC/EN 60947, VDE 0660, IEC/EN 60204

Switch-disconnector according to IEC/EN 60947-3

### Climatic proofing

Damp heat, constant, to IEC 60068-2-78

Damp heat, cyclic, to IEC 60068-2-30

Ambient temperatureOpen

-25 - +50 °C

Ambient temperatureEnclosed

-25 - +40 °C

Overvoltage category/pollution degree

III/3

Rated impulse withstand voltage [ $U_{imp}$ ]

6000 V AC

Mechanical shock resistance

15 g

Mounting position

As required

### Contacts

Electrical characteristicsRated operational voltage [ $U_e$ ]

690 V AC

Electrical characteristicsRated uninterrupted current [ $I_u$ ]

20 A

Electrical characteristicsNote on rated uninterrupted current  $I_u$

Rated uninterrupted current  $I_u$  is specified for max. cross-section.

Load rating with intermittent operation, class 12AB 25 % DF

$2 \times I_e$

Load rating with intermittent operation, class 12AB 40 % DF

$1.6 \times I_e$

Load rating with intermittent operation, class 12AB 60 % DF

$1.3 \times I_e$

Short-circuit ratingFuse

20 A gG/gL

Rated short-time withstand current (1 s current) [ $I_{cw}$ ]

320 A<sub>rms</sub>

Note on rated short-time withstand current  $I_{cw}$

Current for a time of 1 second

Rated conditional short-circuit current [ $I_k$ ]

6 kA

### Switching capacity

cos  $\phi$  rated making capacity as per IEC 60947-3

130 A

Rated breaking capacity cos  $\phi$  to IEC 60947-3230 V

100 A

Rated breaking capacity cos  $\phi$  to IEC 60947-3400/415 V

110 A

Rated breaking capacity cos  $\phi$  to IEC 60947-3500 V

80 A

Rated breaking capacity cos  $\phi$  to IEC 60947-3690 V

60 A

Safe isolation to EN 61140between the contacts

440 V AC

Safe isolation to EN 61140Current heat loss per contact at  $I_e$

0.6 W

Safe isolation to EN 61140Current heat loss per auxiliary circuit at  $I_e$  (AC-15/230 V)

0.6 W

Lifespan, mechanical [Operations]

$> 0.4 \times 10^6$

Maximum operating frequency [Operations/h]

1200

AC AC-3Rating, motor load switch [P]220 V 230 V [P]

3 kW

AC AC-3Rating, motor load switch [P]230 V Star-delta [P]

5.5 kW

AC AC-3Rating, motor load switch [P]400 V 415 V [P]

5.5 kW

AC AC-3Rating, motor load switch [P]400 V Star-delta [P]

7.5 kW  
 AC AC-3 Rating, motor load switch [P] 500 V [P]  
 5.5 kW  
 AC AC-3 Rating, motor load switch [P] 500 V Star-delta [P]  
 7.5 kW  
 AC AC-3 Rating, motor load switch [P] 690 V [P]  
 4 kW  
 AC AC-3 Rating, motor load switch [P] 690 V Star-delta [P]  
 5.5 kW  
 AC AC-3 Rated operational current motor load switch 230 V [I<sub>e</sub>]  
 11.5 A  
 AC AC-3 Rated operational current motor load switch 230 V star-delta [I<sub>e</sub>]  
 20 A  
 AC AC-3 Rated operational current motor load switch 400 V 415 V [I<sub>e</sub>]  
 11.5 A  
 AC AC-3 Rated operational current motor load switch 400 V star-delta [I<sub>e</sub>]  
 20 A  
 AC AC-3 Rated operational current motor load switch 500 V [I<sub>e</sub>]  
 9 A  
 AC AC-3 Rated operational current motor load switch 500 V star-delta [I<sub>e</sub>]  
 15.6 A  
 AC AC-3 Rated operational current motor load switch 690 V [I<sub>e</sub>]  
 4.9 A  
 AC AC-3 Rated operational current motor load switch 690 V star-delta [I<sub>e</sub>]  
 8.5 A  
 AC AC-23A motor rating AC-23A, 50 - 60 Hz [P] 230 V [P]  
 3 kW  
 AC AC-23A motor rating AC-23A, 50 - 60 Hz [P] 400 V 415 V [P]  
 5.5 kW  
 AC AC-23A motor rating AC-23A, 50 - 60 Hz [P] 500 V [P]  
 7.5 kW  
 AC AC-23A motor rating AC-23A, 50 - 60 Hz [P] 690 V [P]  
 5.5 kW  
 AC AC-23A Rated operational current motor load switch 230 V [I<sub>e</sub>]  
 13.3 A  
 AC AC-23A Rated operational current motor load switch 400 V 415 V [I<sub>e</sub>]  
 13.3 A  
 AC AC-23A Rated operational current motor load switch 500 V [I<sub>e</sub>]  
 13.3 A  
 AC AC-23A Rated operational current motor load switch 690 V [I<sub>e</sub>]  
 7.6 A  
 DDC-1, Load-break switches L/R = 1 ms Rated operational current [I<sub>e</sub>]  
 10 A  
 DDC-1, Load-break switches L/R = 1 ms Voltage per contact pair in series  
 60 V  
 DDC-21A [I<sub>e</sub>] Rated operational current [I<sub>e</sub>]  
 1 A  
 DDC-21A [I<sub>e</sub>] Contacts  
 1 Quantity  
 DDC-23A, motor load switch L/R = 15 ms 24 V Rated operational current [I<sub>e</sub>]  
 10 A  
 DDC-23A, motor load switch L/R = 15 ms 24 V Contacts  
 1 Quantity  
 DDC-23A, motor load switch L/R = 15 ms 48 V Rated operational current [I<sub>e</sub>]  
 10 A  
 DDC-23A, motor load switch L/R = 15 ms 48 V Contacts  
 2 Quantity  
 DDC-23A, motor load switch L/R = 15 ms 60 V Rated operational current [I<sub>e</sub>]  
 10 A  
 DDC-23A, motor load switch L/R = 15 ms 60 V Contacts  
 3 Quantity  
 DDC-23A, motor load switch L/R = 15 ms 120 V Rated operational current [I<sub>e</sub>]  
 5 A  
 DDC-23A, motor load switch L/R = 15 ms 120 V Contacts  
 3 Quantity  
 DDC-23A, motor load switch L/R = 15 ms 240 V Rated operational current [I<sub>e</sub>]  
 5 A  
 DDC-23A, motor load switch L/R = 15 ms 240 V Contacts  
 5 Quantity

DDC-13, Control switches L/R = 50 ms Rated operational current [ $I_n$ ]  
 10 A  
 DDC-13, Control switches L/R = 50 ms Voltage per contact pair in series  
 32 V  
 Control circuit reliability at 24 V DC, 10 mA [Fault probability]  
 $< 10^{-5}$ , < 1 failure in 100,000 switching operations H<sub>f</sub>  
 Terminal capacities  
 Solid or stranded  
 1 x (1 - 2,5)  
 2 x (1 - 2,5) mm<sup>2</sup>  
 Flexible with ferrules to DIN 46228  
 1 x (0.75 - 2.5)  
 2 x (0.75 - 2.5) mm<sup>2</sup>  
 Terminal screw  
 M3.5  
 Tightening torque for terminal screw  
 1 Nm  
 Technical safety parameters:  
**Notes**  
 B10<sub>d</sub> values as per EN ISO 13849-1, table C1  
 Rating data for approved types  
 Terminal capacity Terminal screw  
 M3.5

## Design verification as per IEC/EN 61439

Technical data for design verification  
 Rated operational current for specified heat dissipation [ $I_n$ ]  
 20 A  
 Heat dissipation per pole, current-dependent [ $P_{id}$ ]  
 0.6 W  
 Equipment heat dissipation, current-dependent [ $P_{id}$ ]  
 0 W  
 Static heat dissipation, non-current-dependent [ $P_{vs}$ ]  
 0 W  
 Heat dissipation capacity [ $P_{diss}$ ]  
 0 W  
 Operating ambient temperature min.  
 -25 °C  
 Operating ambient temperature max.  
 +50 °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  
 UV resistance only in connection with protective shield.  
 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 properties10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

#### 10.9 Insulation properties10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

#### 10.9 Insulation properties10.9.4 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

Low-voltage industrial components (EG000017) / Control switch (EC002611)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Control switch (ecl@ss10.0.1-27-37-14-14 [ACN998011])

Type of switch

Level switch

Number of poles

2

Max. rated operation voltage Ue AC

690 V

Rated permanent current Iu

20 A

Number of switch positions

3

With 0 (off) position

Yes

With retraction in 0-position

No

Device construction

Built-in device

Width in number of modular spacings

5

Suitable for ground mounting

Yes

Suitable for front mounting 4-hole

No

Suitable for distribution board installation

No

Suitable for intermediate mounting

Yes

Complete device in housing

No

Type of control element

Other

Front shield size

Other

Degree of protection (IP), front side

IP00

Degree of protection (NEMA), front side

Other

## CAD data

- [Product-specific CAD data](#)  
(Web)
- [3D Preview](#)  
(Web)

## DWG files

- [DA-CD-t0\\_xz\\_2](#)  
File  
(Web)

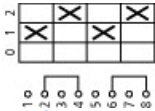
edz files

- [DA-CE-ETN.T0-2-8260\\_XZ](#)  
File  
(Web)


Step files

- [DA-CS-t0\\_xz\\_2](#)  
File  
(Web)

Wiring diagram

-   
[115S076-2](#)  
Line drawing  
Step switch with additional 0 position

Symbol

-   
FS 418  
[115K016](#)  
Graphic  
FS418 standard front plate

Product photo

-   
[1150PIC-285](#)  
Photo

Declaration of Conformity

EU

- [Rotary Cam Switch T0 \(DA-DC-00003632\)](#)  
Asset  
(PDF)

UK

- [Rotary Cam Switch T0 \(DA-DC-00004000\)](#)  
Asset  
(PDF)

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