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Worldwide English



T0-3-8250/E- Step switches, T0, 20 A, flush mounting, 3 contact unit(s), Contacts: 6, 45 °, maintained, Without 0 (Off) position, 1-3, design no. 8250



013451 T0-3-8250/E

Overview Specifications Resources

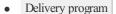
013451 T0-3-8250/E

Step switches, T0, 20 A, flush mounting, 3 contact unit(s), Contacts: 6, 45 $^{\circ}$, maintained, Without 0 (Off) position, 1-3, design no. 8250

EL-Nurmer (Norway)

1456340

Step switch, Product range: Control switches, Standards: IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL, Switch-disconnector according to IEC/EN 60947-3, Part group reference: T0, with black thumb grip and front plate, Contacts: 6, Degree of Protection: Front IP65, Design: flush mounting, Switching angle: 45°, Switching performance: maintained, Without 0 (Off) position, 3 contact unit(s), Rated uninterrupted current: lu= 20 A, front plate: 1-3



Technical data

Design verification as per IEC/EN 61439

Technical data ETIM 7.0

Approvals

Dimensions

Delivery program

Product range

Control switches
Part group reference

TO

Basic function

Step switches

with black thumb grip and front plate

Contacts

6

Degree of Protection

Front IP65

Design

flush mounting

Contact sequence



Switching angle

45°

Switching performance

maintained

Without 0 (Off) position

Design number

8250

Front plate no.



FS 404 front plate 1-3

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

400 V [P]

5.5 kW

Rated uninterrupted current [lu]

20 A

Note on rated uninterrupted current !,

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

Number of contact units

3 contact unit(s)

Technical data

General

Standards

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

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 temperature Enclosed

-25 - +40 °C

Overvoltage category/pollution degree

Rated impulse withstand voltage [U_{imp}]

6000 V AC

Mechanical shock resistance

15 g

Mounting position

As required

Contacts

Bectrical characteristics Rated operational voltage [Ua]

690 V AC

Bectrical characteristicsRated uninterrupted current [lu]

Bectrical characteristics Note on rated uninterrupted current !,

Rated uninterrupted current l_u is specified for max. cross-section.

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

2 x le

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

1.6 x l_e

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

1.3 x l_e

Short-circuit ratingFuse

20 A gG/gL

Rated short-time withstand current (1 s current) [lcw]

Note on rated short-time withstand current lcw

Current for a time of 1 second

Rated conditional short-circuit current [la]

6kA

Switching capacity

cos φ rated making capacity as per IEC 60947-3

130 A

Rated breaking capacity cos ϕ 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
Safe isolation to EN 61140 Current heat loss per contact at le
Safe isolation to EN 61140 Current heat loss per auxiliary circuit at le (AC-15/230 V)
Lifespan, mechanical [Operations]
> 0.4 \times 10^6
Maximum operating frequency [Operations/h]
ACAC-3Rating, motor load switch [P]220 V 230 V [P]
ACAC-3Rating, motor load switch [P]230 V Star-delta [P]
5.5 kW
ACAC-3Rating, motor load switch [P]400 V 415 V [P]
5.5 kW
ACAC-3Rating, motor load switch [P]400 V Star-delta [P]
7.5 kW
ACAC-3Rating, motor load switch [PJ500 V [P]
5.5 kW
ACAC-3Rating, motor load switch [PJ500 V Star-delta [PJ
ACAC-3Rating, motor load switch [P]690 V [P]
4 kW
ACAC-3Rating, motor load switch [P]690 V Star-delta [P]
ACAC-3Rated operational current motor load switch230 V [La]
11.5 A
ACAC-3Rated operational current motor load switch230 V star-delta [La]
ACAC-3Rated operational current motor load switch400V 415 V [La]
11.5 A
ACAC-3Rated operational current motor load switch400 V star-delta [La]
ACAC-3Rated operational current motor load switch500 V [le]
ACAC-3Rated operational current motor load switch500 V star-delta [le]
ACAC-3Rated operational current motor load switch690 V [le]
4.9 A
ACAC-3Rated operational current motor load switch690 V star-delta [le]
8.5 A
ACAC-23AMotor rating AC-23A, 50 - 60 Hz [P]230 V [P]
3 kW
ACAC-23AMotor rating AC-23A, 50 - 60 Hz [P]400 V 415 V [P]
5.5 kW
ACAC-23AMbtor rating AC-23A, 50 - 60 Hz [P]500 V [P]
7.5 kW
ACAC-23AMbtor rating AC-23A, 50 - 60 Hz [P]690 V [P]
5.5 kW
ACAC-23ARated operational current motor load switch230 V [le]
13.3 A
ACAC-23ARated operational current motor load switch400 V 415 V [le]
13.3 A
ACAC-23ARated operational current motor load switch500 V [le]
13.3 A
ACAC-23ARated operational current motor load switch690 V [le]
DCDC-1, Load-break switches L/R = 1 msRated operational current [le]
10 A
DCDC-1, Load-break switches L/R = 1 msVoltage per contact pair in series
60 V
DCDC-21A [le] Rated operational current [le]
DCDC-21A [l<sub>e</sub>]Contacts
1 Quantity
DCDC-23A, motor load switch L/R = 15 ms24 VRated operational current [l<sub>e</sub>]
```

10 A

DCDC-23A, motor load switch L/R = 15 ms24 VContacts DCDC-23A, motor load switch L/R = 15 ms48 VRated operational current [La] DCDC-23A, motor load switch L/R = 15 ms48 VContacts 2 Quantity DCDC-23A, motor load switch L/R = 15 ms60 VRated operational current [La] DCDC-23A, motor load switch L/R = 15 ms60 VContacts DCDC-23A, motor load switch L/R = 15 ms 120 VRated operational current [La] DCDC-23A, motor load switch L/R = 15 ms120 VContacts DODC-23A, motor load switch L/R = 15 ms240 VRated operational current [L] DCDC-23A, motor load switch L/R = 15 ms240 VContacts 5 Quantity DCDC-13, Control switches L/R = 50 msRated operational current [La] DCDC-13, Control switches L/R = 50 msVoltage per contact pair in series Control circuit reliability at 24 V DC, 10 mA [Fault probability] < 10⁻⁵.< 1 failure in 100.000 switching operations H₌ Terminal capacities Solid or stranded 1 x (1 - 2.5) 2 x (1 - 2.5) mm² Flexible with ferrules to DIN 46228 1 x (0.75 - 2.5) 2 x (0.75 - 2.5) mm² Terminal screw M3.5 Tightening torque for terminal screw 1 Nm Technical safety parameters: Notes B10_d values as per EN ISO 13849-1, table C1 Rating data for approved types Contacts Rated operational voltage [Ua] 600 V AC ContactsRated uninterrupted current max. Main conducting paths General use 16 A ContactsRated uninterrupted current max. Auxiliary contacts General Use [I₁] 10 A ContactsRated uninterrupted current max. Auxiliary contacts Plot Duty A 600 P300 Switching capacity/Vaximum motor ratingSingle-phase120 V AC 0.5 HP Switching capacity/Maximum motor rating/Single-phase200 V AC 1HP Switching capacity/Vaximum motor rating/Single-phase240 V AC 1.5 HP Switching capacity Maximum motor rating Three-phase 200 V AC 3 HP Switching capacity Maximum motor rating Three-phase 240 V AC 3HP Switching capacity Maximum motor rating Three-phase 480 V AC 7.5 HP Switching capacity Maximum motor rating Three-phase 600 V AC 7.5 HP Short Circuit Current RatingBasic Rating 5 kA Short Circuit Current Ratingmax. Fuse

n A

50 A

Short Circuit Current RatingHigh fault rating

10 kA

Short Circuit Current Ratingmax. Fuse

20. Class J A

Terminal capacity Solid or flexible conductor with ferrule

18 - 14 AWG

Terminal capacity Terminal screw

N/B 5

Terminal capacity Tightening torque

8.8 lb-in

Design verification as per IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation [In]

20 A

Heat dissipation per pole, current-dependent [P_{vid}]

0.6 W

Equipment heat dissipation, current-dependent [Pvid]

0.00

Static heat dissipation, non-current-dependent [P_{vs}]

0 W

Heat dissipation capacity [Pdiss]

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 ASSEVBLIES

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 Bectromagnetic 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)

Bectric 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 lu

20 A

Number of switch positions

3

With 0 (off) position

Nh

With retraction in 0-position

No

Device construction

Built-in device

Width in number of modular spacings

U

Suitable for ground mounting

No

Suitable for front mounting 4-hole

Yes

Suitable for distribution board installation

No

Suitable for intermediate mounting

No

Complete device in housing

No

Type of control element

Toggle

Front shield size

48x48 mm

Degree of protection (IP), front side

IP65

Degree of protection (NEVA), front side

12

Approvals

Product Standards

UL 60947-4-1; CSA - C22.2 No. 60947-4-1-14; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking

UL File No.

E36332

UL Category Control No.

NLRV

CSA File No.

12528

CSA Class No.

3211-05

North America Certification

UL listed, CSA certified

Suitable for

Branch circuits, suitable as motor disconnect

Degree of Protection

IEC: IP65; UL/CSA Type 1, 12

Dimensions

美丽田田勇

☐ ZFS-... Label mount not included as standard

- Product-specific CAD data (Web)
- 3D Preview (Web)

DWG files

• DA-CD-t0_3_e File (Web)

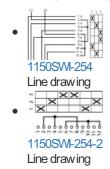
edz files

• DA-CE-ETN.T0-3-8250_E File (Web)

Step files

DA-CS-t0_3_eFile (Web)

Wiring diagram



Dimensions single product

In the standard of the st

Product photo



Symbol

000Z079
Graphic
Rotary switch installation



Instruction Leaflet

T0 Camswitches: Mbunting (IL03801020Z)
 Asset
 former AWA115-587, IL00802008E
 (PDF, 06/2021, multilingual)

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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Download-Center (this item)
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