Select your language

- German
- English
- Spanish
- French
- Dutch
- Italian
- Polish
- Czech
- Russian
- Norwegian Bokmål

Worldwide English

TM-2-8550/EZ - Coding switches, TM, 10 A, centre mounting, 2 contact unit(s), Contacts: 4, 30 °, maintained, With 0 (Off) position, 0-9, design no. 8550

000699 TM-2-8550/EZ

Overview Specifications Resources

000699 TM-2-8550/EZ

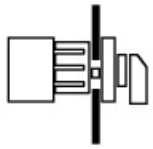
Coding switches, TM, 10 A, centre mounting, 2 contact unit(s), Contacts: 4, 30 °, maintained, With 0 (Off) position, 0-9, design no. 8550

EL-Nummer (Norway) 1456173

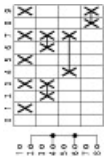
Coding switch, Product range: Control switches, Standards: IEC/EN 60947, VDE 0660, CSA, UL, Control switch as per IEC/EN 60947-5-1, Auxiliary switch as per IEC/EN 60947-5-1, Part group reference: TM, with black thumb grip and front plate, Contacts: 4, Degree of Protection: Front IP65, Design: centre mounting, switching function: BCD Code 0-9, Switching angle: 30 °, Switching performance: maintained, With 0 (Off) position, 2 contact unit(s), Rated uninterrupted current: Iu= 10 A, front plate: 0-9

Delivery program

Product range
Control switches
Part group reference
TM
Basic function
Coding switches
with black thumb grip and front plate
Contacts
4
Degree of Protection
Front IP65
Design
centre mounting



Contact sequence



switching function
BCD Code 0-9

Switching angle
30 °
Switching performance
maintained
With 0 (Off) position
Design number
8550
Front plate no.

F 007
front plate
0-9
Motor rating AC-23A, 50 - 60 Hz [P]
400 V [P]
3 kW
Rated uninterrupted current [I_u]
10 A
Note on rated uninterrupted current I_u
Rated uninterrupted current I_u is specified for max. cross-section.
Number of contact units
2 contact unit(s)

Technical data

General
Standards
IEC/EN 60947, VDE 0660, CSA, UL
Control switch as per IEC/EN 60947-5-1
Auxiliary switch as per IEC/EN 60947-5-1
Climatic proofing
Damp heat, constant, to IEC 60068-2-78
Damp heat, cyclic, to IEC 60068-2-30
Ambient temperatureOpen
-25 - +50 °C
Overvoltage category/pollution degree
III/3
Rated impulse withstand voltage [U_{imp}]
4000 V AC
Mounting position
As required
Contacts
Electrical characteristicsRated operational voltage [U_e]
500 V AC
Electrical characteristicsRated uninterrupted current [I_u]
10 A
Electrical characteristicsNote on rated uninterrupted current I_u
Rated uninterrupted current I_u is specified for max. cross-section.
Short-circuit ratingFuse
10 A gG/gL
Switching capacity
Safe isolation to EN 61140Current heat loss per contact at I_e
0.15 W
Safe isolation to EN 61140Current heat loss per auxiliary circuit at I_e (AC-15/230 V)
0.15 CO
Lifespan, mechanical [Operations]
> 1 x 10^6
Maximum operating frequency [Operations/h]
1200
AC AC-21ARated operational current switch400 V 415 V [I_e]
10 A
AC AC-23AMotor rating AC-23A, 50 - 60 Hz [P]400 V 415 V [P]
3 kW
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 1,5
2 x 1,5 mm²
Flexible with ferrules to DIN 46228
1 x 1.0
2 x 1.0 mm²
Flexible
1 x 1.5
2 x 1.5 mm²
Terminal screw
M2.5
Tightening torque for terminal screw
0.4 Nm
Rating data for approved types
ContactsRated operational voltage [U_e]
300 V AC
ContactsRated uninterrupted current max.Main conducting pathsGeneral use
10 A
ContactsRated uninterrupted current max.Auxiliary contactsGeneral Use [I_U]
10 A
ContactsRated uninterrupted current max.Auxiliary contactsPilot Duty
A 300
Switching capacityMaximum motor ratingSingle-phase120 V AC
0.33 HP
Switching capacityMaximum motor ratingSingle-phase240 V AC
0.75 HP
Switching capacityMaximum motor ratingSingle-phase277 V AC
0.75 HP
Switching capacityMaximum motor ratingThree-phase120 V AC
0.75 HP
Switching capacityMaximum motor ratingThree-phase240 V AC
1 HP
Terminal capacity Solid or flexible conductor with ferrule
14 AWG
Terminal capacity Terminal screw
M2.5
Terminal capacity Tightening torque
3.5 lb-in

Design verification as per IEC/EN 61439

Technical data for design verification
Rated operational current for specified heat dissipation [I_n]
10 A
Heat dissipation per pole, current-dependent [P_{vid}]
0.15 W
Equipment heat dissipation, current-dependent [P_{vid}]
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 parts10.2.2 Corrosion resistance
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.1 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 heat
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.3 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 parts10.2.4 Resistance to ultra-violet (UV) radiation
UV resistance only in connection with protective shield.
10.2 Strength of materials and parts10.2.5 Lifting
Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.6 Mechanical impact
Does not apply, since the entire switchgear needs to be evaluated.
10.2 Strength of materials and parts10.2.7 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
Coding switch
Number of poles
1
Max. rated operation voltage Ue AC
500 V
Rated permanent current Iu
10 A
Number of switch positions
10
With 0 (off) position
Yes
With retraction in 0-position
No
Device construction
Built-in device
Width in number of modular spacings
0
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
30x30 mm

Degree of protection (IP), front side
IP65
Degree of protection (NEMA), front side
Other

Approvals

Product Standards
UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking
UL File No.
E36332
UL Category Control No.
NLRV
CSA File No.
UL report applies to both US and Canada
North America Certification
UL listed, certified by UL for use in Canada
Degree of Protection
IEC: IP65; UL/CSA Type: –

Dimensions

Key operation lock mechanism

Door drilling dimensions
Drilling dimensions: either 16.2 mm = without reduction □ RMQ16 or 22.3 mm = with reduction □ RMQ Titan

CAD data

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

DWG files

- DA-CD-tm2_ez
  File
  (Web)

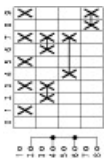
edz files

- DA-CE-ETN.TM-2-8550_EZ
  File
  (Web)

Step files

- DA-CS-tm2_ez
  File
  (Web)

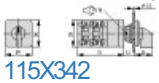
Wiring diagram

- 
  115S098-2
  Line drawing
  Complementary BCD code 0-9

Dimensions single product

- □

115X073
Line drawing
Centre mounting, drilling dimensions

- 
115X342
Line drawing
Centre mounting

- 115X350
Line drawing
Centre mounting with key operation

Product photo

- 
1150PIC-1549
Photo

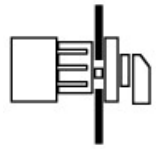
3D drawing

- 1150DRW-7
Line drawing
Centre mounting style

Instruction Leaflet

- Mini Rotary switch: step switch, reversing switch, coding switch (IL03801027Z)
Asset
(PDF, multilingual)

Symbol

- 
000Z081
Graphic
Rotary switches centrally mounted

- 

F 007
115K191
Graphic
FS007 standard front plate

Declaration of Conformity

EU

- TM Mini Rotary Cam Switch (DA-DC-00003706)
Asset
(PDF)

UK

- TM Mini Rotary Cam Switch (DA-DC-00003806)
Asset
(PDF)

Download-Center

- Download-Center (this item)
  Eaton EMEA Download-Center - download data for this item
- Download-Center
  Eaton EMEA Download-Center

Generate data sheet in PDF format

Generate data sheet in Excel format

Write a comment

Imprint Privacy Policy Legal Disclaimer Terms and Conditions
© 2021 by Eaton Industries GmbH