DATASHEET - TM-2-8260/EZ


Step switches, TM, 10 A, centre mounting, 2 contact unit(s), Contacts: 4, $60^{\circ}$, maintained, With 0 (Off) position, 0-2, design no. 8260

Part no.
Catalog No.

TM-2-8260/EZ
045483

Delivery program

Product range
Part group reference
Basic function

Contacts
Number of steps
Degree of Protection
Design

Contact sequence

Switching angle
Switching performance

Design number
Front plate no.

Control switches
TM
Step switches
with black thumb grip and front plate
4
2 steps, $60^{\circ}$
Front IP65
centre mounting


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$$

60
maintained
With 0 (Off) position
8260


F 075
$0-2$
Motor rating AC-23A, 50-60 Hz

## 400 V

Rated uninterrupted current
Note on rated uninterrupted current ! $u$
Number of contact units

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

Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

Ambient temperature

## Open

Overvoltage category/pollution degree
Rated impulse withstand voltage
Mounting position

|  |  | IEC/EN 60947, VDE 0660, CSA, UL <br> Control switch as per IEC/EN 60947-5-1 <br> Auxiliary switch as per IEC/EN 60947-5-1 |
| :---: | :---: | :---: |
|  |  | Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 |
|  | ${ }^{\circ} \mathrm{C}$ | $-25-+50$ |
|  |  | III/3 |
| $\mathrm{U}_{\text {imp }}$ | V AC | 4000 |
|  |  | As required |

Contacts
Electrical characteristics

| Rated operational voltage |
| :--- |
| Rated uninterrupted current |

## Short-circuit rating

## Fuse

Switching capacity
Safe isolation to EN 61140
Current heat loss per contact at $\mathrm{I}_{\mathrm{e}}$
Current heat loss per auxiliary circuit at $\mathrm{I}_{\mathrm{e}}(\mathrm{AC}-15 / 230 \mathrm{~V})$
Lifespan, mechanical
Maximum operating frequency
AC
AC-21A
Rated operational current switch 400 V 415 V

## AC-23A

Motor rating AC-23A, $50-60 \mathrm{~Hz}$ 400 V 415 V

Control circuit reliability at $24 \mathrm{VDC}, 10 \mathrm{~mA}$

## Terminal capacities

Solid or stranded
Flexible with ferrules to DIN 46228

## Flexible

Terminal screw
Tightening torque for terminal screw
Rating data for approved types
Contacts
Rated operational voltage
Rated uninterrupted current max.
Main conducting paths
General use
Auxiliary contacts
General Use
Pilot Duty
Switching capacity
Maximum motor rating
Single-phase
120 V AC
240 V AC
277 V AC
Three-phase
120 V AC
240 V AC
Terminal capacity
Solid or flexible conductor with ferrule
Terminal screw
Tightening torque

| $U_{e}$ | $V A C$ | 500 |
| :--- | :--- | :--- |
| $I_{u}$ | $A$ | 10 |

Rated uninterrupted current $\mathrm{l}_{\mathrm{u}}$ is specified for max. cross-section.

A gG/gL 10

|  | W | 0.15 |
| :--- | :--- | :--- |
|  | CO | 0.15 |
| Operations | $\times 10^{6}$ | $>1$ |
| Operations/h |  | 1200 |



$$
\mathrm{mm}^{2} \quad 1 \times 1,5
$$

$$
2 \times 1,5
$$

$\mathrm{mm}^{2} \quad 1 \times 1.0$
$2 \times 1.0$
$\mathrm{mm}^{2} \quad 1 \times 1.5$
M2.5
Nm 0.4
$U_{e} \quad V A C \quad 300$

A 10
IU A 10 A 300
HP 0.33
$\mathrm{HP} \quad 0.75$

HP 0.75
HP 0.75
HP 1

AWG 14
M2.5
$\mathrm{lb}-\mathrm{in} \quad 3.5$

## Design verification as per IEC/EN 61439

Technical data for design verification

| Heat dissipation per pole, current-dependent | $\mathrm{P}_{\text {vid }}$ | W | 0.15 |
| :---: | :---: | :---: | :---: |
| Equipment heat dissipation, current-dependent | $\mathrm{P}_{\text {vid }}$ | W | 0 |
| Static heat dissipation, non-current-dependent | $\mathrm{P}_{\mathrm{vs}}$ | W | 0 |
| Heat dissipation capacity | $\mathrm{P}_{\text {diss }}$ | W | 0 |
| Operating ambient temperature min. |  | ${ }^{\circ} \mathrm{C}$ | -25 |
| Operating ambient temperature max. |  | ${ }^{\circ} \mathrm{C}$ | 50 |
| IEC/EN 61439 design verification |  |  |  |
| 10.2 Strength of materials and parts |  |  |  |
| 10.2.2 Corrosion resistance |  |  | Meets the product standard's requirements. |
| 10.2.3.1 Verification of thermal stability of enclosures |  |  | Meets the product standard's requirements. |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat |  |  | Meets the product standard's requirements. |
| 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. |
| 10.2.4 Resistance to ultra-violet (UV) radiation |  |  | UV resistance only in connection with protective shield. |
| 10.2.5 Lifting |  |  | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.6 Mechanical impact |  |  | Does not apply, since the entire switchgear needs to be evaluated. |
| 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. |
| 10.9.3 Impulse withstand voltage |  |  | Is the panel builder's responsibility. |
| 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

Low-voltage industrial components (EG000017) / Control switch (ECOO2611)
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
Max. rated operation voltage Ue AC
Rated permanent current lu
Number of switch positions
With 0 (off) position
With retraction in 0 -position
Device construction
Width in number of modular spacings
Suitable for ground mounting
Suitable for front mounting 4-hole
Suitable for distribution board installation No
Suitable for intermediate mounting No
Complete device in housing No
Type of control element
Front shield size
Degree of protection (IP), front side

Yes3Yes

## Approvals

Product Standards
UL File No.
UL Category Control No.
CSA File No.
North America Certification
Degree of Protection

UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking
E36332
NLRV
UL report applies to both US and Canada
UL listed, certified by UL for use in Canada
IEC: IP65; UL/CSA Type: -

Dimensions



Key operation lock mechanism


Door drilling dimensions
Drilling dimensions: either $16.2 \mathrm{~mm}=$ without reduction $\triangleq \mathrm{RMQ16}$ or $22.3 \mathrm{~mm}=$ with reduction $\triangleq \mathrm{RMO}$ Titan

