



182421 P3-63/I4/MBS/SVB

Overview

Specifications

Resources







Delivery program

Technical data

Design verification as per IEC/EN 61439

Technical data E∏M7.0

Dimensions

DELIVERY PROGRAM

Product range Main switch maintenance switch

Repair switch

Part group reference

Stop Function

Emergency switching off function

With red rotary handle and yellow locking ring

Information about equipment supplied Auxiliary contact or neutral conductor fitted by user.

Notes

with assembly sheet screen

Number of poles 3 pole

Auxiliary contacts
\\ 0 N/O
ONC
Locking facility Lockable in the 0 (Off) position
Degree of Protection IP65
totally insulated
Design surface mounting
Contact sequence
Function
Motor rating AC-23A, 50 - 60 Hz [P]
400 V [P] 30 kW
Rated uninterrupted current [I _u] 63 A
Note on rated uninterrupted current I_u Rated uninterrupted current I_u is specified for max. cross-section.

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 temperature Enclosed -20 - +40 °C

Overvoltage category/pollution degree III/3

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

Mechanical shock resistance 15 g

Mounting position As required

Contacts

Mechanical variables Number of poles 3 pole

Mechanical variables Auxiliary contacts \frac{1}{l} 0 NO

Mechanical variables Auxiliary contacts 7 0 N/C

Bectrical characteristics

Rated operational voltage [Ue] 690 V AC **Bectrical characteristics** Rated uninterrupted current [lu] 63 A **Bectrical characteristics** Note on rated uninterrupted current !u Rated uninterrupted current I_{u} is specified for max. cross-section. Load rating with intermittent operation, class 12 AB 25 % DF 2 x l_e Load rating with intermittent operation, class 12 AB 40 % DF 1.6 x l_e Load rating with intermittent operation, class 12 AB 60 % DF 1.3 x l_e Short-circuit rating Fuse 80 A gG/gL Rated short-time withstand current (1 s current) $[l_{cw}]$ 1260 A_{rms} Note on rated short-time withstand current lcw Current for a time of 1 second Rated conditional short-circuit current $[I_q]$ 4 kA **Switching capacity** cos φ rated making capacity as per IEC 60947-3

800 A

Rated breaking capacity cos ϕ to IEC 60947-3 230 V 640 A

Rated breaking capacity cos φ to IEC 60947-3 400/415 V 600 A

Rated breaking capacity cos φ to IEC 60947-3 500 V 590 A

Rated breaking capacity cos φ to IEC 60947-3 690 V 340 A

Safe isolation to EN 61140 between the contacts 440 V AC

Safe isolation to BN 61140 Current heat loss per contact at $\rm l_e$ $4.5~\rm W$

Lifespan, mechanical [Operations] > 0.1 x 10⁶

Maximum operating frequency [Operations/h] 1200

AC AC-3 Rating, motor load switch [P] 220 V 230 V [P] 15 kW

AC AC-3 Rating, motor load switch [P] 400 V 415 V [P] 30 kW

AC AC-3 Rating, motor load switch [P] 500 V [P] 30 kW

AC AC-3 Rating, motor load switch [P] 690 V [P] 30 kW AC
AC-3
Rated operational current motor load switch 230 V [La]
51 A

AC AC-3 Rated operational current motor load switch 400V 415 V [$I_{\rm e}$] 55 A

AC AC-3 Rated operational current motor load switch 500 V [$_{\rm le}$] 44 A

AC AC-3 Rated operational current motor load switch 690 V [La] 22.1 A

AC AC-23A Motor rating AC-23A, 50 - 60 Hz [P] 230 V [P] 18.5 kW

AC AC-23A Motor rating AC-23A, 50 - 60 Hz [P] 400 V 415 V [P] 30 kW

AC AC-23A Motor rating AC-23A, 50 - 60 Hz [P] 500 V [P] 45 kW

AC AC-23A Motor rating AC-23A, 50 - 60 Hz [P] 690 V [P] 55 kW

AC-23A
Rated operational current motor load switch

230 V [La] 63 A

AC
AC-23A
Rated operational current motor load switch
400 V 415 V [l_e]
63 A

AC AC-23A Rated operational current motor load switch 500 V [$l_{\rm e}$] 63 A

AC AC-23A Rated operational current motor load switch 690 V [la] 63 A

DC
DC-1, Load-break switches L/R=1 ms
Rated operational current [le]
63 A

DC
DC-1, Load-break switches L/R=1 ms
Voltage per contact pair in series
60 V

DC DC-23A, motor load switch L/R = 15 ms 24 V Rated operational current [I_e] 50 A

DC
DC-23A, motor load switch L/R = 15 ms
24 V
Contacts
1 Quantity

DC DC-23A, motor load switch L/R = 15 ms 48 V Rated operational current [l_e] 50 A

DC DC-23A, motor load switch L/R = 15 ms 48 V $^{7/15}$

Contacts 2 Quantity

DC
DC-23A, motor load switch L/R = 15 ms
60 V
Rated operational current [L₂]
50 A

DC
DC-23A, motor load switch L/R = 15 ms
60 V
Contacts
2 Quantity

DC
DC-23A, motor load switch L/R = 15 ms
120 V
Rated operational current [I_e]
25 A

DC DC-23A, motor load switch L/R = 15 ms 120 V Contacts 3 Quantity

DC DC-23A, motor load switch L/R = 15 ms 240 V Rated operational current [I_e] 777777 A

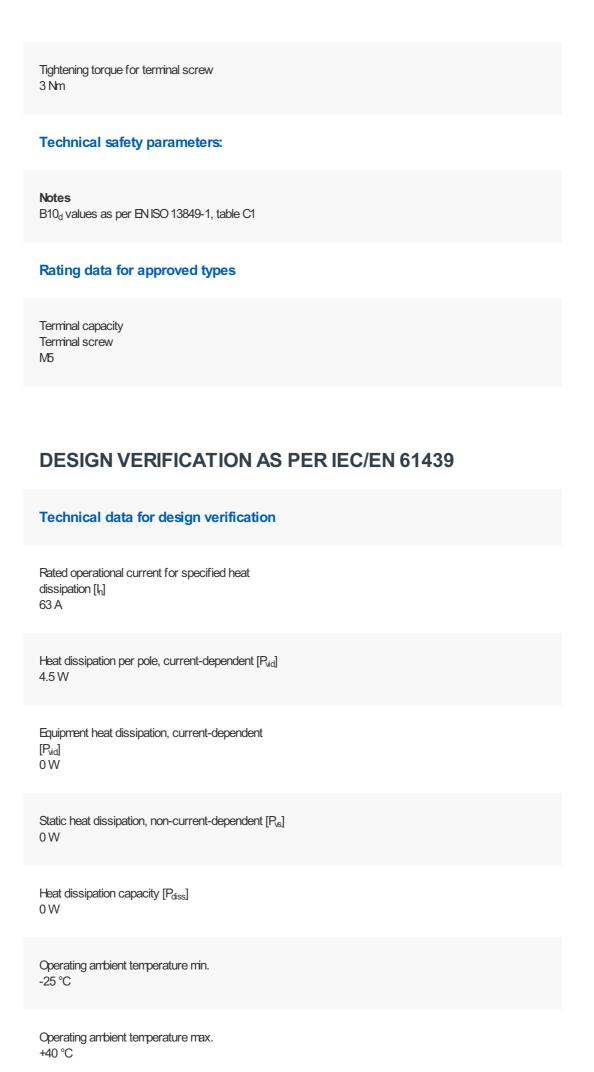
Control circuit reliability at 24 V DC, 10 mA [Fault probability] $< 10^{-5}, < 1$ failure in 100,000 switching operations H₌

Terminal capacities

Solid or stranded 1 x (2,5 - 35) 2 x (2,5 - 10) mm²

Hexible with ferrules to DIN 46228 1 x (1.5 - 25) 2 x (1.5 - 6) mm²

Terminal screw M5



IEC/EN 61439 design verification

10.2 Strength of materials and parts10.2.2 Corrosion resistanceWeets 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 parts10.2.3.2 Verification of resistance of insulating materials to normal heatWeets 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 Weets 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 parts10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.6 Mechanical impactDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.7 InscriptionsMeets 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 properties10.9.4 Testing of enclosures made of insulating materialIs 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.

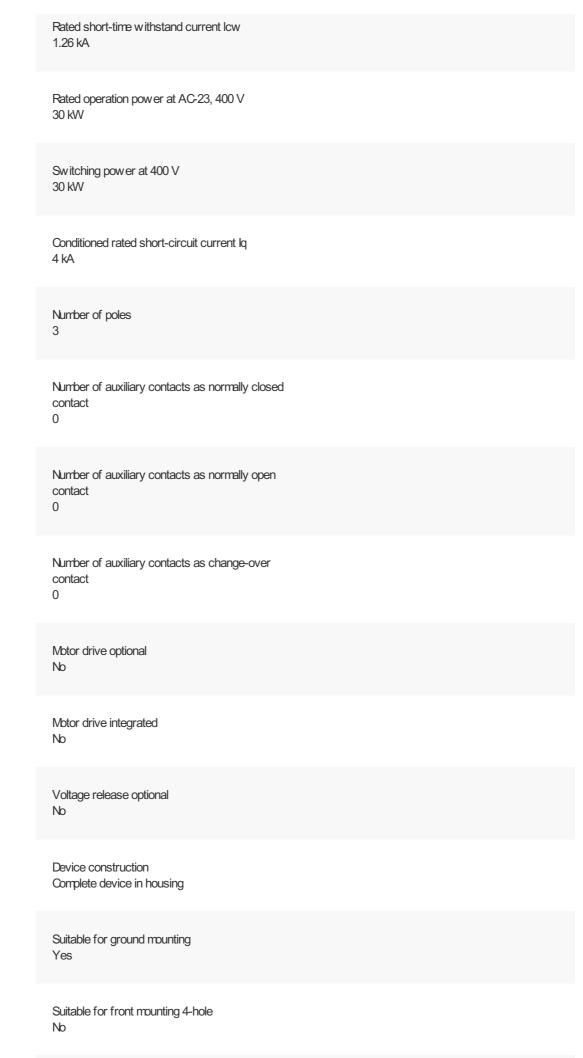
10.13 Mechanical function
The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

TECHNICAL DATA ETIM 7.0

Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

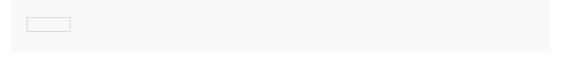
Bectric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1-27-37-14-03 [AKF060013]) Version as main switch Yes Version as maintenance-/service switch Yes Version as safety switch Version as emergency stop installation Yes Version as reversing switch Number of switches Max. rated operation voltage Ue AC 690 V Rated operating voltage 690 - 690 V Rated permanent current lu 63 A Rated permanent current at AC-23, 400 V 63 A Rated permanent current at AC-21, 400 V 63 A Rated operation power at AC-3, 400 V

30 kW



Suitable for front mounting centre No
Suitable for distribution board installation No
Suitable for intermediate mounting No
Colour control element Red
Type of control element Door coupling rotary drive
Interlockable Yes
Type of electrical connection of main circuit Screw connection
Degree of protection (IP), front side IP65
Degree of protection (NEVA) Other

DIMENSIONS









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