

DMM-125/3/I5/P-R - Switch-disconnector, DMM, 125 A, 3 pole, Emergency switching off function, With red rotary handle and yellow locking ring, in CI-K5 enclosure



172851 DMM-125/3/I5/P-R

Overview

Specifications

Resources







DELIVERY PROGRAM

Delivery program

Product range Switch-disconnector Main switch maintenance switch

Technical data

Design verification as per IEC/EN 61439

Part group reference

DMM

Technical data ETIM 7.0

Stop Function

Emergency switching off function

Dimensions

With red rotary handle and yellow locking ring

Information about equipment supplied auxiliary contact fitted by user.

Notes

in Cl-K5 enclosure

Number of poles 3 pole

Auxiliary contacts
\\\O
7 ONC
Notes 1 padlock, □ 5 mm
Locking facility Lockable in the 0 (Off) position
Degree of Protection IP65
totally insulated
Design surface mounting
Contact sequence L1 L2 L3 $ \begin{array}{c c} $
Switching angle 90 °
Function

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

400 V [P] 59 kW Rated uninterrupted current $[I_u]$ Note on rated uninterrupted current !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 Certifications CE, RoHs, KEMA, EAC, Lloyds Ambient temperature Operation [ϑ] -25 - +60 °C Ambient temperature Storage [ϑ] -40 - +80 °C Overvoltage category/pollution degree Rated impulse withstand voltage [U_{mp}] 6 kV Rated insulation voltage [U] 1000 V Mounting position As required

Contacts

Mechanical variables Number of poles 3 pole Mechanical variables Auxiliary contacts 0 NO Mechanical variables Auxiliary contacts 0 NC **Bectrical characteristics** Rated operational voltage [U_e] 690 V AC **Bectrical characteristics** Rated uninterrupted current [lu] 125 A **Bectrical characteristics** Note on rated uninterrupted current $!_{\mathsf{u}}$ Rated uninterrupted current I_u is specified for max. cross-section. Short-circuit rating fuse 125 Short-circuit rating Rated conditional short-circuit current [lq] 415 V: 30 690 V: 50 kA Short-circuit rating Breaking current 13.7 kA Short-circuit rating max. let-through energy 134 kA2s

 $\begin{bmatrix} I_{cw} \end{bmatrix} \\ 2500 \: A_{rms}$

Note on rated short-time withstand current lcw Current for a time of 1 second

Heat dissipation per pole, current-dependent $[P_{id}] \ 4.9 \, W$

Switching capacity

Rated breaking capacity cos ϕ to IEC 60947-3 400/415 V 1000 A

Rated breaking capacity cos φ to IEC 60947-3 500 V 528 A

Rated breaking capacity cos φ to IEC 60947-3 690 V 336 A

Safe isolation to BN 61140 Current heat loss per contact at $l_{\rm e}$ 4.5 W

Lifespan, mechanical [Operations] 10000

AC AC-21A Rated operational current switch 400 V 415 V [[,] 125 A

AC AC-21A Rated operational current switch 500 V [La] 125 A

AC AC-21A Rated operational current switch 690 V [La] 125 A AC AC-22A Rated operational current switch 400 V 415 V [[,] 125 A

AC AC-22A Rated operational current switch 500 V [[a]] 125 A

AC AC-22A Rated operational current switch 690 V [La] 125 A

AC AC-23A Rated operational current switch 400 V 415 V [I_e] 125 A

AC AC-23A Rated operational current switch 500 V [l_a] 66 A

AC AC-23A Rated operational current switch 690 V [l_e] 42 A

AC AC-23A Motor rating AC-23A, 50 - 60 Hz [P] 400 V 415 V [P] 59 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] 37 kW

Terminal capacities

Flexible with ferrules to DIN 46228 flexible 6 - 70 mm²

Stripping length 21 mm

Tightening torque for terminal screw 7 Nm

Technical safety parameters:

Notes

B10_d values as per EN ISO 13849-1, table C1

DESIGN VERIFICATION AS PER IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation [I_n] 125 A

Heat dissipation per pole, current-dependent $[P_{id}] \ 4.9 \, W$

Equipment heat dissipation, current-dependent $[P_{\text{vid}}]$ 0 W

Static heat dissipation, non-current-dependent $[P_{\!\scriptscriptstyle NS}]$ 0 W

Heat dissipation capacity $[P_{\text{diss}}]$ 0 W

Operating ambient temperature min. -25 $^{\circ}\text{C}$

Operating ambient temperature max. +40 °C

IEC/EN 61439 design verification

10.2 Strength of materials and parts10.2.2 Corrosion resistanceMeets the product standard's requirements.

10.2 Strength of materials and parts10.2.3.1 Verification of thermal stability of enclosuresMeets the product standard's requirements.

10.2 Strength of materials and parts10.2.3.2 Verification of resistance of insulating materials to normal heatMeets 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 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.

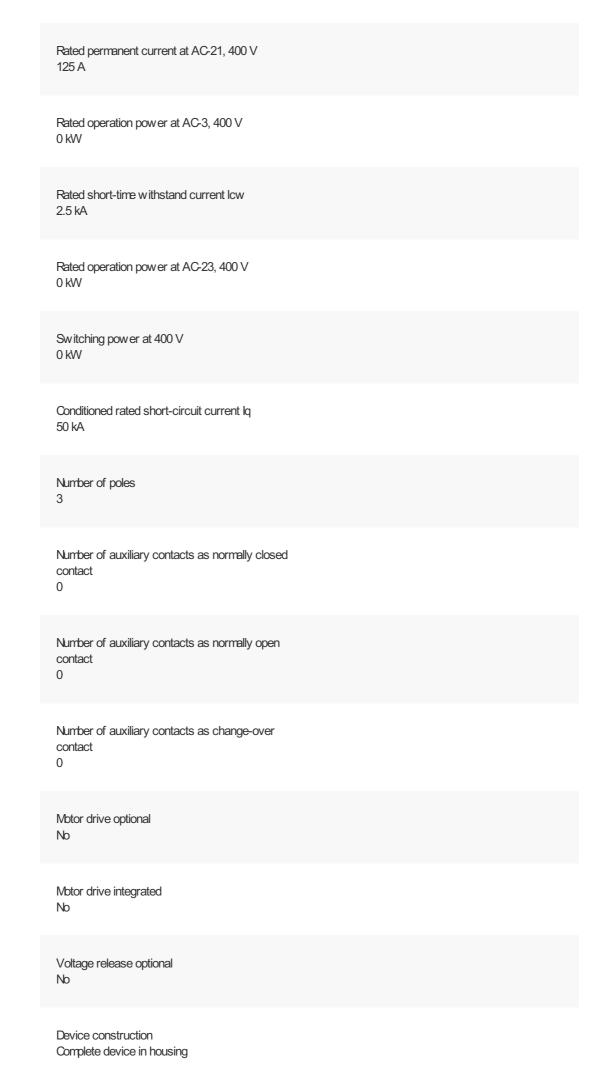
10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear must be observed.

The device meets the requirements, provided the information in the instruction leaflet ($\rm IL$) is observed.

TECHNICAL DATA ETIM 7.0

Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)
Electric 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 No
Version as emergency stop installation Yes
Version as reversing switch No
Number of switches 1
Max. rated operation voltage Ue AC 690 V
Rated operating voltage 690 - 690 V
Rated permanent current lu 125 A
Rated permanent current at AC-23, 400 V

125 A



Suitable for ground mounting Yes
Suitable for front mounting 4-hole No
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 Short thumb-grip
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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