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DMM-160/4/I5/C-G - Switch-disconnector, DMM, 160 A, 4 pole, with grey knob, cylinder lock, in Cl-K5 enclosure



172805 DMM-160/4/I5/C-G

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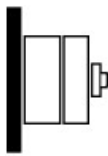
172805 DMM-160/4/I5/C-G

Switch-disconnector, DMM, 160 A, 4 pole, with grey knob, cylinder lock, in Cl-K5 enclosure
EL-Nummer (Norway) 1405712

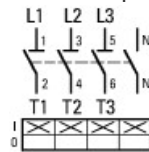
Switch-disconnector, Product range: Switch-disconnector, Main switch, maintenance switch, Part group reference: DMM, with grey knob, Notes: in Cl-K5 enclosure, Information about equipment supplied: auxiliary contact fitted by user., 4 pole, locking arrangement: cylinder lock, Degree of Protection: IP65, Design: surface mounting, Motor rating AC-23A, 50 - 60 Hz 400 V: P= 80 kW, Rated uninterrupted current: Iu = 160 A, Standards: IEC/EN 60947, VDE 0660, IEC/EN 60204, Switch-disconnector according to IEC/EN 60947-3

Delivery program

Product range
Switch-disconnector
Main switch
maintenance switch
Part group reference
DMM
with grey knob
Information about equipment supplied
auxiliary contact fitted by user.
Notes
in Cl-K5 enclosure
Number of poles
4 pole
Auxiliary contacts
0 NO
0 NC
locking arrangement
cylinder lock
Degree of Protection
IP65
Design
surface mounting



Contact sequence



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

400 V [P]

80 kW

Rated uninterrupted current [I_u]

160 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

Certifications

CE, RoHS, KEWA, EAC, Lloyds

Ambient temperatureOperation [9]

-25 - +60 °C

Ambient temperatureStorage [9]

-40 - +80 °C

Overvoltage category/pollution degree

III/3

Rated impulse withstand voltage [U_{mp}]

6 kV

Rated insulation voltage [U_i]

1000 V

Mounting position

As required

Contacts

Mechanical variablesNumber of poles

4 pole

Mechanical variablesAuxiliary contacts

0 NO

Mechanical variablesAuxiliary contacts

0 NC

Electrical characteristicsRated operational voltage [U_e]

690 V AC

Electrical characteristicsRated uninterrupted current [I_u]

160 A

Electrical characteristicsNote on rated uninterrupted current I_u

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

Short-circuit ratingfuse

160

Short-circuit ratingRated conditional short-circuit current [I_q]

415 V: 30

690 V: 50 kA

Short-circuit ratingBreaking current

13.5 kA

Short-circuit ratingmax. let-through energy

86,9 kA²s

Rated short-time withstand current (1 s current) [I_{cw}]

2500 A_{rms}

Note on rated short-time withstand current I_{cw}

Current for a time of 1 second

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

8 W

Switching capacity

Rated breaking capacity $\cos \phi$ to IEC 60947-3400/415 V

1080 A
 Rated breaking capacity $\cos \phi$ to IEC 60947-3500 V
 528 A
 Rated breaking capacity $\cos \phi$ to IEC 60947-3690 V
 336 A
 Safe isolation to EN 61140
 Current heat loss per contact at I_e
 7.4 W
 Lifespan, mechanical [Operations]
 10000
 AC AC-21A Rated operational current switch 400 V 415 V [I_e]
 160 A
 AC AC-21A Rated operational current switch 500 V [I_e]
 160 A
 AC AC-21A Rated operational current switch 690 V [I_e]
 160 A
 AC AC-22A Rated operational current switch 400 V 415 V [I_e]
 160 A
 AC AC-22A Rated operational current switch 500 V [I_e]
 160 A
 AC AC-22A Rated operational current switch 690 V [I_e]
 160 A
 AC AC-23A Rated operational current switch 400 V 415 V [I_e]
 140 A
 AC AC-23A Rated operational current switch 500 V [I_e]
 66 A
 AC AC-23A Rated operational current switch 690 V [I_e]
 42 A
 AC AC-23A Motor rating AC-23A, 50 - 60 Hz [P] 400 V 415 V [P]
 80 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]
 160 A
 Heat dissipation per pole, current-dependent [P_{vid}]
 8 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.
 +40 °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 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 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 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 disconnecter (EC000216)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (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

No

Version as reversing switch

No

Number of switches

1

Max. rated operation voltage U_e AC

690 V

Rated operating voltage

690 - 690 V

Rated permanent current I_u

160 A

Rated permanent current at AC-23, 400 V

140 A

Rated permanent current at AC-21, 400 V

160 A

Rated operation power at AC-3, 400 V

0 kW

Rated short-time withstand current I_{cw}

2.5 kA

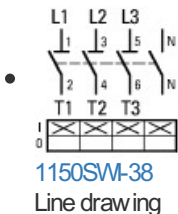
Rated operation power at AC-23, 400 V
0 kW
Switching power at 400 V
0 kW
Conditioned rated short-circuit current I_k
50 kA
Number of poles
4
Number of auxiliary contacts as normally closed contact
0
Number of auxiliary contacts as normally open contact
0
Number of auxiliary contacts as change-over contact
0
Motor drive optional
No
Motor drive integrated
No
Voltage release optional
No
Device construction
Complete device in housing
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
Grey
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 (NEMA)
Other

Dimensions

Product photo



Wiring diagram



[115S288-2](#)

Line drawing

On-Off switches

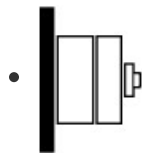
Dimensions single product

-

[1150DIM-34](#)

Line drawing

Symbol



[000Z428](#)

Graphic

Load current switches design

Declaration of Conformity

UK

- [Dumeco Switch-Disconnectors, type DMM \(DA-DC-00003997\)](#)

Asset

(PDF)

Instruction Leaflet

- [Switch-disconnector \(IL008006ZU\)](#)

Asset

(PDF, 03/2021, multilingual)

CAD data

edz files

- [DA-CE-ETN.DMM-160_4_15_C-G](#)

File

(Web)

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