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### Worldwide English



DMM-160/3/15/C-R - Switch-disconnector, DMM, 160 A, 3 pole, Emergency switching off function, With red rotary handle and yellow locking ring, cylinder lock, in Cl-K5 enclosure



172803 DMM-160/3/I5/C-R

Overview Specifications Resources

#### A M C



- Delivery program
- Technical data
  - Design verification as per IEC/EN 61439
- Technical data ETIM 7.0
- Dimensions

## 172803 DMM-160/3/I5/C-R

Switch-disconnector, DMM, 160 A, 3 pole, Emergency switching off function, With red rotary handle and yellow locking ring, cylinder lock, in Cl-K5 enclosure

EL-Nummer (Norway)

1405709

Switch-disconnector, Product range: Switch-disconnector, Main switch, maintenance switch, Part group reference: DMM, Stop Function: Emergency switching off function, With red rotary handle and yellow locking ring, Notes: in Cl-K5 enclosure, Information about equipment supplied: auxiliary contact fitted by user., 3 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: lu = 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

Stop Function

Emergency switching off function

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

١

0 N/O

7

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,]

160 A

Note on rated uninterrupted current !u

Rated uninterrupted current luis 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 temperatureOperation [θ]

-25 - +60 °C

Ambient temperatureStorage [θ]

-40 - +80 °C

Overvoltage category/pollution degree

111/3

Rated impulse withstand voltage [U<sub>mp</sub>]

6 kV

Rated insulation voltage [Ui]

1000 V

Mounting position

As required

Contacts

Mechanical variables Number of poles

3 pole

Mechanical variables Auxiliary contacts

0 N/C

Mechanical variables Auxiliary contacts 7

0 N/C

Bectrical characteristicsRated operational voltage [Ue]

690 V AC

Bectrical characteristicsRated uninterrupted current [Iu]

160 A

Bectrical characteristicsNote on rated uninterrupted current !u

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

Short-circuit ratingfuse

160

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

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)  $\left[I_{cw}\right]$ 

 $2500\,A_{rms}$ 

Note on rated short-time withstand current lcw

Current for a time of 1 second

Heat dissipation per pole, current-dependent [P<sub>vid</sub>]

8 W

Switching capacity

Rated breaking capacity cos φ 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 le

7.4 W

Lifespan, mechanical [Operations]

10000

ACAC-21ARated operational current switch400 V 415 V [La]

160 A

ACAC-21ARated operational current switch500 V [La]

160 A

ACAC-21ARated operational current switch690 V [le]

160 A

ACAC-22ARated operational current switch400 V 415 V [le]

160 A

ACAC-22ARated operational current switch500 V [La]

160 A

ACAC-22ARated operational current switch690 V [Ie]

160 A

ACAC-23ARated operational current switch400 V 415 V [le]

140 A

ACAC-23ARated operational current switch500 V [le]

66 A

ACAC-23ARated operational current switch690 V [le]

42 A

ACAC-23AMbtor rating AC-23A, 50 - 60 Hz [P]400 V 415 V [P]

80 kW

ACAC-23ANbtor rating AC-23A, 50 - 60 Hz [P]500 V [P]

45 kW

ACAC-23AMbtor rating AC-23A, 50 - 60 Hz [P]690 V [P]

37 kW

Terminal capacities

Flexible with ferrules to DIN 46228 flexible

6 - 70 mm<sup>2</sup>

Stripping length

21 mm

Tightening torque for terminal screw

7 Nm

Technical safety parameters:

Notes

B10<sub>d</sub> 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 [In]

160 A

Heat dissipation per pole, current-dependent [P<sub>vid</sub>]

8 W

Equipment heat dissipation, current-dependent [Pvid]

0 W

Static heat dissipation, non-current-dependent [P<sub>s</sub>]

0 W

Heat dissipation capacity [P<sub>diss</sub>]

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 Weets 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 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 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 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

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 lcw

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 lq

50 kA

Number of poles

3

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

Nr

Suitable for distribution board installation

Nh

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 (NEWA)

Other

### **Dimensions**

## Product photo



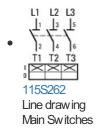
Photo

Wiring diagram

115S009-2

Line drawing

On-Off switches without auxiliary contacts



# Dimensions single product

• 1150DIM-34 Line drawing

## **Symbol**



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\_3\_l5\_C-R File (Web)

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