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Powering Business Worldwide

DMV-250/4/M4/P-R - Switch-disconnector, DMV, 250 A, 4 pole, Emergency switching off function, With red rotary handle and yellow locking ring, With metal shaft for a control panel depth of 400 mm, 9 mm connection hole



6094970 DMV-250/4/M4/P-R

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## 6094970 DMV-250/4/M4/P-R

Switch-disconnector, DMV, 250 A, 4 pole, Emergency switching off function, With red rotary handle and yellow locking ring, With metal shaft for a control panel depth of 400 mm, 9 mm connection hole

EL-Nummer (Norway)

1417207

Switch-disconnector, Product range: Switch-disconnector, Main switch, maintenance switch, Part group reference: DMV, Stop Function: Emergency switching off function, With red rotary handle and yellow locking ring, Notes: With metal shaft for a control panel depth of 400 mm, Information about equipment supplied: auxiliary contact fitted by user., 4 pole, Degree of Protection: Front IP65, Design: rear mounting, Motor rating AC-23A, 50 - 60 Hz 400 V: P= 147 kW, Rated uninterrupted current: I<sub>u</sub> = 250 A, Standards: IEC/EN 60947, VDE 0660, IEC/EN 60204, Switch-disconnector according to IEC/EN 60947-3

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### Delivery program

Product range

Switch-disconnector

Main switch

maintenance switch

Part group reference

DMV

Stop Function

Emergency switching off function

With red rotary handle and yellow locking ring

Information about equipment supplied

auxiliary contact fitted by user.

Notes

With metal shaft for a control panel depth of 400 mm

Number of poles

4 pole

Auxiliary contacts

1

0 NO

1

0 NC

Notes

1 padlock, □ 5 mm

Locking facility

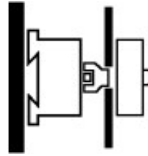
Lockable in the 0 (Off) position

Degree of Protection

Front IP65

Design

rear mounting



Contact sequence



Switching angle

90 °

Function



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

400 V [P]

147 kW

Rated uninterrupted current [ $I_u$ ]

250 A

Note on rated uninterrupted current  $I_u$

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

Connection technique

9 mm connection hole

## 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 - +55 °C

Ambient temperatureStorage [9]

-30 - +80 °C

Overvoltage category/pollution degree

III/3

Rated impulse withstand voltage [ $U_{imp}$ ]

8 kV

Rated insulation voltage [ $U_i$ ]

1000 V

Mounting position

As required

Contacts

Mechanical variablesNumber of poles

4 pole

Mechanical variablesAuxiliary contacts<sup>1</sup>

0 NO

Mechanical variablesAuxiliary contacts<sup>1</sup>

0 NC

Electrical characteristicsRated operational voltage [ $U_b$ ]

690 V AC

Electrical characteristicsRated uninterrupted current [ $I_u$ ]

250 A

Electrical characteristicsNote on rated uninterrupted current  $I_u$

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

Short-circuit ratingfuse

500/250

Short-circuit ratingRated conditional short-circuit current [ $I_k$ ]

$I_n = 500$ : 50

$I_n = 250$ : 100 kA

Short-circuit ratingBreaking current

$I_n = 500$ : 40

$I_n = 250$ : 33 kA

Short-circuit ratingmax. let-through energy

$I_n = 500$ : 1700

$I_n = 250$ : 380 kA<sup>2</sup>s

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

12000 A<sub>rms</sub>

Note on rated short-time withstand current  $I_{cw}$   
 Current for a time of 0.3 seconds  
 Heat dissipation per pole, current-dependent [ $P_{id}$ ]  
 4.5 W  
 Switching capacity  
 Rated breaking capacity  $\cos \phi$  to IEC 60947-3400/415 V  
 2000 A  
 Rated breaking capacity  $\cos \phi$  to IEC 60947-3500 V  
 1760 A  
 Rated breaking capacity  $\cos \phi$  to IEC 60947-3690 V  
 1120 A  
 Safe isolation to EN 61140 Current heat loss per contact at  $I_e$   
 3.75 W  
 Lifespan, mechanical [Operations]  
 10000  
 AC AC-21A Rated operational current switch 400 V 415 V [ $I_e$ ]  
 250 A  
 AC AC-21A Rated operational current switch 500 V [ $I_e$ ]  
 250 A  
 AC AC-21A Rated operational current switch 690 V [ $I_e$ ]  
 250 A  
 AC AC-22A Rated operational current switch 400 V 415 V [ $I_e$ ]  
 250 A  
 AC AC-22A Rated operational current switch 500 V [ $I_e$ ]  
 250 A  
 AC AC-22A Rated operational current switch 690 V [ $I_e$ ]  
 250 A  
 AC AC-23A Rated operational current switch 400 V 415 V [ $I_e$ ]  
 250 A  
 AC AC-23A Rated operational current switch 500 V [ $I_e$ ]  
 220 A  
 AC AC-23A Rated operational current switch 690 V [ $I_e$ ]  
 140 A  
 AC AC-23A Motor rating AC-23A, 50 - 60 Hz [ $P$ ] 400 V 415 V [ $P$ ]  
 147 kW  
 AC AC-23A Motor rating AC-23A, 50 - 60 Hz [ $P$ ] 500 V [ $P$ ]  
 160 kW  
 AC AC-23A Motor rating AC-23A, 50 - 60 Hz [ $P$ ] 690 V [ $P$ ]  
 132 kW  
 Terminal capacities  
 Flat conductor connection with busbars  
 120 mm<sup>2</sup>  
 Terminal screw  
 M8 x 20  
 Tightening torque for terminal screw  
 14 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 [ $I_n$ ]  
 250 A  
 Heat dissipation per pole, current-dependent [ $P_{id}$ ]  
 4.5 W  
 Equipment heat dissipation, current-dependent [ $P_{id}$ ]  
 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.  
 +55 °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  
 Meets the product standard's requirements.  
 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  
 Yes  
 Version as emergency stop installation  
 Yes  
 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  $I_u$   
 250 A  
 Rated permanent current at AC-23, 400 V  
 250 A

Rated permanent current at AC-21, 400 V  
250 A  
Rated operation power at AC-3, 400 V  
0 kW  
Rated short-time withstand current I<sub>cn</sub>  
12 kA  
Rated operation power at AC-23, 400 V  
250 kW  
Switching power at 400 V  
250 kW  
Conditioned rated short-circuit current I<sub>k</sub>  
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  
Built-in device fixed built-in technique  
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  
Yes  
Colour control element  
Red  
Type of control element  
Toggle  
Interlockable  
Yes  
Type of electrical connection of main circuit  
Screw connection  
Degree of protection (IP), front side  
IP20  
Degree of protection (NEMA)  
Other

## Dimensions



## CAD data

- [Product-specific CAD data](#)  
(Web)
- [3D Preview](#)  
(Web)

## DWG files

- [DA-CD-dmv250n\\_1814410](#)  
File  
(Web)

## edz files

- [DA-CE-ETN.DMV-250\\_4\\_M4\\_P-R](#)  
File  
(Web)


## Step files

- [DA-CS-dmv250n\\_1814410](#)  
File  
(Web)



## Product photo

-   
[1150PIC-1219](#)  
Photo

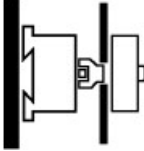

## Wiring diagram

-   
[115S288-2](#)  
Line drawing  
On-Off switches

## Dimensions single product

-   
[1150DIM-49](#)  
Line drawing
-   
[1150DIM-52](#)  
Line drawing

## Symbol

-   
[000Z429](#)  
Graphic  
Load current switches centre mounting
-   
[1150SPC-194](#)  
Graphic

## Instruction Leaflet

- [Switch-disconnector DMV \(IL008008ZU\)](#)  
Asset  
(PDF, 07/2021, multilingual)

## Declaration of Conformity

### UK

- [Dumeco Switch-disconnector, Type DMV \(DA-DC-00003998\)](#)  
Asset  
(PDF)

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