

Specifications



Eaton 6094971

Eaton DMV Switch-disconnector, DMV, 400 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, 11 mm connection bore

General specifications

PRODUCT NAME	Eaton DMV Switch-disconnector
CATALOG NUMBER	6094971
MODEL CODE	DMV-400/4/M4/P-R
EAN	8711426316829
PRODUCT LENGTH/DEPTH	63 mm
PRODUCT HEIGHT	146 mm
PRODUCT WIDTH	205 mm
PRODUCT WEIGHT	1.7 kg
CERTIFICATIONS	Lloyds RoHS KEMA IEC/EN 60947 CE IEC/EN 60947-3 VDE 0660 EAC IEC/EN 60204
CATALOG NOTES	Current for a time of 0.3 seconds



Powering Business Worldwide

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX	55 °C
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AMBIENT STORAGE TEMPERATURE - MAX	80 °C
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AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
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AMBIENT STORAGE TEMPERATURE - MIN	-30 °C
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Contacts

NUMBER OF AUXILIARY CONTACTS (CHANGE- OVER CONTACTS)	0
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NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
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NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
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Design verification

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.
10.2.2 CORROSION RESISTANCE	Meets the product standard's requirements.
10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES	Meets the product standard's requirements.
10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT	Meets the product standard's requirements.
10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS	Meets the product standard's requirements.
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION	Meets the product standard's requirements.
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs to be evaluated.
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	Does not apply, since the

Electrical rating

RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)	2664 A
RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)	2032 A
RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)	1120 A
RATED INSULATION VOLTAGE (UI)	1000 V
RATED OPERATIONAL CURRENT (IE) AT AC-21, 400 V, 415 V	400 A
RATED OPERATIONAL CURRENT (IE) AT AC-21, 500 V	400 A
RATED OPERATIONAL CURRENT (IE) AT AC-21, 690 V	400 A
RATED OPERATIONAL CURRENT (IE) AT AC-22, 380 V, 400 V, 415 V	400 A
RATED OPERATIONAL CURRENT (IE) AT AC-22, 500 V	400 A
RATED OPERATIONAL CURRENT (IE) AT AC-22, 690 V	315 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 400 V, 415 V	333 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 500 V	254 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 690 V	140 A
RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ	400 kW
RATED OPERATIONAL POWER AT AC-23A, 500 V, 50 HZ	180 kW
RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ	132 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	0 kW

AGAINST ELECTRIC SHOCK	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.
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	Is the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	11.5 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	9 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	400 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W

RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
RATED UNINTERRUPTED CURRENT (IU)	400 A
UNINTERRUPTED CURRENT	Rated uninterrupted current Iu is specified for max. cross-section.

Features & functions	
FEATURES	Version as emergency stop installation Version as main switch
FITTED WITH:	Metal shaft for a control panel depth of 400 mm Red rotary handle and yellow locking ring
FUNCTIONS	Interlockable Emergency switching off function
LOCKING FACILITY	Lockable in the 0 (Off) position
LOCKING MECHANISM	Padlocking feature SVC
NUMBER OF POLES	Four-pole

General information	
ACCESSORIES	Auxiliary contact fitted by user.
ACTUATOR COLOR	Red
ACTUATOR TYPE	Short thumb-grip
CONNECTION TYPE	11 mm connection bore
DEGREE OF PROTECTION	NEMA 12
DEGREE OF PROTECTION (FRONT SIDE)	IP65
LIFESPAN, MECHANICAL	10,000 Operations
MOUNTING METHOD	Rear mounting
MOUNTING POSITION	As required
OVERVOLTAGE CATEGORY	III

POLLUTION DEGREE	3
PRODUCT CATEGORY	• Main switch • Switch-disconnector
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	8000 V
SAFETY PARAMETER (EN ISO 13849-1)	B10d values as per EN ISO 13849-1, table C.1
SUITABLE FOR	Intermediate mounting Ground mounting
SWITCHING ANGLE	90 °

Short-circuit rating

BREAKING CURRENT	40 kA (at In = 500) 33 kA (at In = 250)
LET-THROUGH ENERGY	Max. 380 kA²s (at In = 250) Max. 1700 kA²s (at In = 500)
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	50 kA 100 kA at In = 250
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	12 kA, Contacts, 1 second 12 kA
SHORT-CIRCUIT PROTECTION RATING	500/250, Fuse, Contacts

Terminal capacities

SCREW SIZE	M10 x 20, Terminal screw
TERMINAL CAPACITY	240 mm², Flat conductor connection with busbars
TIGHTENING TORQUE	28 Nm, Screw terminals

Resources

CATALOGUES [eaton-industrial-switch-disconnectors-catalogue-ca008011en-en-gb.pdf](#)

DECLARATIONS OF CONFORMITY [eaton-switch-disconnector-declaration-of-conformity-eu250627en.pdf](#)
[eaton-switch-disconnector-declaration-of-conformity-uk251110en.pdf](#)

DRAWINGS [eaton-rotary-switches-dmv-switch-disconnector-dimensions-016.eps](#)
[eaton-general-mounting-p1-main-switch-symbol-002.eps](#)

[eaton-rotary-switches-t0-main-switch-symbol.eps](#)

ECAD MODEL [DA-CE-ETN.DMV-400_4_M4_P-R](#)

INSTALLATION INSTRUCTIONS [eaton-switch-disconnector-dmvs-dmv-il008008zu.pdf](#)

MCAD MODEL [DA-CS-dmv400n_1814413](#)
[eaton-switch-disconnector-mcad-drawings-dmv400n-1814413.dwg](#)

WIRING DIAGRAMS [eaton-rotary-switches-switch-dmm-switch-disconnector-wiring-diagram.eps](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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