

Specifications



Eaton 6094970

Eaton DMV 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

General specifications

PRODUCT NAME	Eaton DMV Switch-disconnector
CATALOG NUMBER	6094970
MODEL CODE	DMV-250/4/M4/P-R
EAN	8711426207950
PRODUCT LENGTH/DEPTH	63 mm
PRODUCT HEIGHT	135 mm
PRODUCT WIDTH	205 mm
PRODUCT WEIGHT	1.6 kg
CERTIFICATIONS	IEC/EN 60947 IEC/EN 60947-3 IEC/EN 60204 KEMA RoHS VDE 0660 CE Lloyds EAC
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)	2000 A
RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)	1760 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	250 A
RATED OPERATIONAL CURRENT (IE) AT AC-21, 500 V	250 A
RATED OPERATIONAL CURRENT (IE) AT AC-21, 690 V	250 A
RATED OPERATIONAL CURRENT (IE) AT AC-22, 380 V, 400 V, 415 V	250 A
RATED OPERATIONAL CURRENT (IE) AT AC-22, 500 V	250 A
RATED OPERATIONAL CURRENT (IE) AT AC-22, 690 V	250 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 400 V, 415 V	250 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 500 V	220 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 690 V	140 A
RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ	250 kW
RATED OPERATIONAL POWER AT AC-23A, 500 V, 50 HZ	160 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	4.5 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	3.75 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	250 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W

RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
RATED UNINTERRUPTED CURRENT (IU)	250 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:	Red rotary handle and yellow locking ring Metal shaft for a control panel depth of 400 mm
FUNCTIONS	Emergency switching off function Interlockable
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	9 mm connection hole
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	33 kA (at In = 250) 40 kA (at In = 500)
LET-THROUGH ENERGY	Max. 380 kA ² s (at In = 250) Max. 1700 kA ² s (at In = 500)
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	100 kA at In = 250 50 kA
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	12 kA 12 kA, Contacts, 1 second
SHORT-CIRCUIT PROTECTION RATING	500/250, Fuse, Contacts

Terminal capacities

SCREW SIZE	M8 x 20, Terminal screw
TERMINAL CAPACITY	120 mm ² , Flat conductor connection with busbars
TIGHTENING TORQUE	14 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-013.eps eaton-rotary-switches-t0-main-switch-symbol.eps eaton-general-mounting-p1-main-switch-symbol-002.eps
ECAD MODEL	ETN.DMV-250_4_M4_P-R
INSTALLATION INSTRUCTIONS	eaton-switch-disconnector-dmvs-dmv-il008008zu.pdf
MCAD MODEL	DA-CS-dmv250n_1814410 eaton-switch-disconnector-mcad-drawings-dmv250n-1814410.dwg
WIRING DIAGRAMS	eaton-rotary-switches-switch-dmm-switch-disconnector-wiring-diagram.eps

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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