

Specifications



Eaton 1814411

Eaton DMV Switch-disconnector, DMV, 400 A, 3 pole, Stop Function optional, Without rotary handle and drive shaft

General specifications

PRODUCT NAME	Eaton DMV Switch-disconnector
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CATALOG NUMBER	1814411
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MODEL CODE	DMV-400N/3
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EAN	8711426213388
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PRODUCT LENGTH/DEPTH	63 mm
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PRODUCT HEIGHT	146 mm
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PRODUCT WIDTH	205 mm
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PRODUCT WEIGHT	1.788 kg
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CERTIFICATIONS	EAC IEC/EN 60204 CE Lloyds VDE 0660 RoHS KEMA IEC/EN 60947 IEC/EN 60947-3
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Features & Functions

FEATURES	Version as emergency stop installation
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FUNCTIONS	Optional Stop Function
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NUMBER OF POLES	Three-pole
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General

ACCESSORIES

- Auxiliary contact fitted by user.
- Connection materials included with supplied

Climatic environmental conditions	
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
AMBIENT STORAGE TEMPERATURE - MIN	-30 °C
AMBIENT STORAGE TEMPERATURE - MAX	80 °C

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,	400 A

equipment.	
ACTUATOR COLOR	Other
ACTUATOR TYPE	Other
DEGREE OF PROTECTION	NEMA Other
DEGREE OF PROTECTION (FRONT SIDE)	IP20
LIFESPAN, MECHANICAL	10,000 Operations
MOUNTING METHOD	Surface 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	Ground mounting

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

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

500 V	
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	180 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
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
RATED UNINTERRUPTED CURRENT (IU)	400 A
UNINTERRUPTED CURRENT	Rated uninterrupted current I _u is specified for max. cross-section.

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

Design verification	
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	11.4 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	0 W

DISSIPATION, NON-CURRENT-DEPENDENT PVS	
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 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.
10.9.2 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.
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.

Resources	
CATALOGUES	eaton-industrial-switch-disconnectors-catalogue-ca008011en-en-gb.pdf
DECLARATIONS OF CONFORMITY	DA-DC-00004929.pdf
	DA-DC-00004902.pdf
DRAWINGS	eaton-rotary-switches-dmv-switch-disconnector-dimensions-008.eps
	1150DIM-53 1150DIM-210
	eaton-rotary-switches-dmv-switch-disconnector-dimensions-016.eps
	000Z428
	eaton-general-switch-t0-main-switch-symbol.eps
ECAD MODEL	DA-CE-ETN.DMV-400N_3
INSTALLATION INSTRUCTIONS	IL008008ZU
MCAD MODEL	eaton-cadenas-side view-dmv400n 1814413 1 side.pra
	eaton-cadenas-front view-dmv400n 1814413 1 front.pra
	eaton-cadenas-path-icpd dmv lasttrennschalter-dmv400n 1814413 1.3db
	DA-CS-dmv400n 1814413 1
	DA-CD-dmv400n 1814413 1
WIRING DIAGRAMS	eaton-rotary-switches-t0-on-off-switch-wiring-diagram-068.eps
	eaton-rotary-switches-on-off-switch-p3-main-switch-wiring-diagram.eps
	115S262 115S009-2

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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