

Specifications



Eaton 1314057

Eaton DMM Switch-disconnector, DMM, 40 A, 4 pole, With black rotary handle and drive shaft, Vertical connection

General specifications

PRODUCT NAME	Eaton DMM Switch-disconnector
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CATALOG NUMBER	1314057
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MODEL CODE	DMM-40/4
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EAN	8711426325708
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PRODUCT LENGTH/DEPTH	146 mm
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PRODUCT HEIGHT	74 mm
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PRODUCT WIDTH	84 mm
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PRODUCT WEIGHT	0.63 kg
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CERTIFICATIONS	CE IEC/EN 60947-3 EAC Lloyds RoHS IEC/EN 60947 VDE 0660 KEMA IEC/EN 60204
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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)	320 A
RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)	264 A
RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)	200 A
RATED INSULATION VOLTAGE (UI)	1000 V
RATED OPERATIONAL CURRENT (IE) AT AC-21, 400 V, 415 V	40 A
RATED OPERATIONAL CURRENT (IE) AT AC-21, 500 V	40 A
RATED OPERATIONAL CURRENT (IE) AT AC-21, 690 V	40 A
RATED OPERATIONAL CURRENT (IE) AT AC-22, 380 V, 400 V, 415 V	40 A
RATED OPERATIONAL CURRENT (IE) AT AC-22, 500 V	40 A
RATED OPERATIONAL CURRENT (IE) AT AC-22, 690 V	40 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 400 V, 415 V	40 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 500 V	33 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 690 V	25 A
RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ	22 kW
RATED OPERATIONAL POWER AT AC-23A, 500 V, 50 HZ	22 kW
RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ	22 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V

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	0.5 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	4 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	40 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W

RATED UNINTERRUPTED CURRENT (IU)	40 A
UNINTERRUPTED CURRENT	Rated uninterrupted current Iu is specified for max. cross-section.

Features & functions	
FEATURES	Version as main switch Version as maintenance-/service switch
FITTED WITH:	Black rotary handle and drive shaft
LOCKING FACILITY	Lockable in the 0 (Off) position
NUMBER OF POLES	Four-pole

General information	
ACCESSORIES	Auxiliary contact fitted by user.
ACTUATOR COLOR	Black
ACTUATOR TYPE	Short thumb-grip
CONNECTION TYPE	Vertical
DEGREE OF PROTECTION	NEMA Other
DEGREE OF PROTECTION (FRONT SIDE)	IP20
LIFESPAN, MECHANICAL	8,500 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)	6000 V
SAFETY PARAMETER (EN ISO 13849-1)	B10d values as per EN ISO 13849-1, table C.1
SUITABLE FOR	Distribution board installation Ground mounting

Short-circuit rating

BREAKING CURRENT	9.6 kA (at In = 50) 9.7 kA (at In = 80)
LET-THROUGH ENERGY	Max. 10 kA²s (at In = 50) Max. 44 kA²s (at In = 80)
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	100 kA 50 kA at In = 80
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	1 kA 1 kA, Contacts, 1 second
SHORT-CIRCUIT PROTECTION RATING	80/50, Fuse, Contacts

Terminal capacities

STRIPPING LENGTH (MAIN CABLE)	14 mm
TERMINAL CAPACITY	1.5 - 25 mm², flexible with ferrules to DIN 46228 2.5 - 16 mm², solid

Resources

CATALOGUES	eaton-industrial-switch-disconnectors-catalogue-ca008011en-en-gb.pdf
DECLARATIONS OF CONFORMITY	eaton-switch-disconnector-declaration-of-conformity-eu250626en.pdf eaton-switch-disconnector-declaration-of-conformity-uk251109en.pdf
DRAWINGS	eaton-rotary-switches-dmm-switch-disconnector-dimensions-004.eps eaton-general-switch-t0-main-switch-symbol.eps
ECAD MODEL	DA-CE-ETN.DMM-40_4
INSTALLATION INSTRUCTIONS	eaton-switch-disconnector-dmm-dcm-il008025zu.pdf
WIRING DIAGRAMS	eaton-rotary-switches-switch-dmm-switch-disconnector-wiring-diagram.eps eaton-rotary-switches-dmm-switch-disconnector-wiring-diagram.eps

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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