Specifications



Eaton 6093347

Eaton DMM Switch-disconnector, DMM, 160 A, 3 pole, With black rotary handle and drive shaft

General specifications	
PRODUCT NAME	Eaton DMM Switch-disconnector
CATALOG NUMBER	6093347
MODEL CODE	DMM-160/3
EAN	8711426208896
PRODUCT LENGTH/DEPTH	155 mm
PRODUCT HEIGHT	115 mm
PRODUCT WIDTH	137 mm
PRODUCT WEIGHT	0.9 kg
CERTIFICATIONS	IEC/EN 60204 CE Lloyds RoHS VDE 0660 EAC IEC/EN 60947 IEC/EN 60947-3 KEMA

Climatic environmental conditions

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

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

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 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.

Electrical rating

RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)	10000 A
RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)	528 A
RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)	336 A
RATED INSULATION VOLTAGE (UI)	1000 V
RATED OPERATIONAL CURRENT (IE) AT AC-21, 400 V, 415 V	160 A
RATED OPERATIONAL CURRENT (IE) AT AC-21, 500 V	160 A
RATED OPERATIONAL CURRENT (IE) AT AC-21, 690 V	160 A
RATED OPERATIONAL CURRENT (IE) AT AC-22, 380 V, 400 V, 415 V	160 A
RATED OPERATIONAL CURRENT (IE) AT AC-22, 500 V	160 A
RATED OPERATIONAL CURRENT (IE) AT AC-22, 690 V	160 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 400 V, 415 V	160 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 500 V	66 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 690 V	42 A
RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ	75 kW
RATED OPERATIONAL POWER AT AC-23A, 500 V, 50 HZ	45 kW
RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ	37 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
RATED UNINTERRUPTED CURRENT (IU)	160 A
UNINTERRUPTED CURRENT	Rated uninterrupted current Iu is specified for max. cross-section.

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	8 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	7.4 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	160 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W

Features & functions

FEATURES	Version as main switch Version as maintenance-/service switch
FITTED WITH:	Black rotary handle and drive shaft
NUMBER OF POLES	Three-pole

General information

ACCESSORIES	• Auxiliary contact fitted by user. • Connection materials included with supplied equipment.
ACTUATOR COLOR	Black
ACTUATOR TYPE	Short thumb-grip
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)	6000 V
SAFETY PARAMETER (EN ISO 13849-1)	B10d values as per EN ISO 13849-1, table C.1
SUITABLE FOR	Intermediate mounting Ground mounting Distribution board installation

Short-circuit rating

BREAKING CURRENT	13.7 kA
LET-THROUGH ENERGY	Max. 134 kA²s
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	50 kA 30 kA at 415 V
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	2,5 kA, Contacts, 1 second 2.5 kA
SHORT-CIRCUIT PROTECTION RATING	125, Fuse, Contacts

Terminal capacities

STRIPPING LENGTH (MAIN CABLE)	21 mm
TERMINAL CAPACITY	6 - 70 mm², flexible with ferrules to DIN 46228
TIGHTENING TORQUE	7 Nm, Screw terminals

Resources

CATALOGUES	eaton-industrial-switch-disconnectors-catalogue-ca008011en-en-gb.pdf
DECLARATIONS OF CONFORMITY	eaton-switch-disconnector-declaration-of-conformity-uk251109en.pdf eaton-switch-disconnector-declaration-of-conformity-eu250626en.pdf
ECAD MODEL	DA-CE-ETN.DMM-160_3
INSTALLATION INSTRUCTIONS	eaton-switch-disconnector-dmm-dcm-il008025zu.pdf
WIRING DIAGRAMS	eaton-rotary-switches-on-off-switch-p3-main-switch-wiring-diagram.eps eaton-rotary-switches-t0-on-off-switch-wiring-diagram-068.eps

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

Eaton Corporation plc Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

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