



Eaton 172796

Eaton DMM Switch-disconnector, DMM, 160 A, 4 pole, STOP function, with grey knob, in CI-K5 enclosure

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PRODUCT NAME	Eaton DMM Switch-disconnector
CATALOG NUMBER	172796
PRODUCT LENGTH/DEPTH	280 mm
PRODUCT HEIGHT	200 mm
PRODUCT WIDTH	200 mm
PRODUCT WEIGHT	2.47 kg
CERTIFICATIONS	IEC/EN 60204 IEC/EN 60947-3 KEMA EAC IEC/EN 60947 Lloyds CE RoHS VDE 0660

PRODUCT CATEGORY	• Main switch • Switch-disconnector
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FEATURES	Version as main switch Version as maintenance-/service switch
ACTUATOR COLOR	Gray
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	UV resistance only in connection with protective shield.
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.

DECLARATIONS OF CONFORMITY	eaton-switch-disconnector-declaration-of-conformity-uk251109en.pdf
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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.
FITTED WITH:	Gray knob
POLLUTION DEGREE	3
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V
RATED PERMANENT CURRENT AT AC-21, 400 V	160 A
RATED PERMANENT CURRENT AT AC-23, 400 V	140 A
RATED UNINTERRUPTED CURRENT (IU)	160 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W
STRIPPING LENGTH (MAIN CABLE)	21 mm
SWITCHING ANGLE	90 °
SWITCHING POWER AT 400 V	0 kW
ACCESSORIES	Auxiliary contact fitted by user.
DEVICE CONSTRUCTION	Complete device in housing
RATED SHORT-TIME	2,5 kA, Contacts, 1 second

WITHSTAND CURRENT (ICW)	2.5 kA
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
MOUNTING POSITION	As required
ACTUATOR TYPE	Short thumb-grip
AMBIENT OPERATING TEMPERATURE - MAX	40 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MAX	80 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	8 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	7.4 W
NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	50 kA 30 kA at 415 V
OVERVOLTAGE CATEGORY	III
BREAKING CURRENT	13.5 kA
DEGREE OF PROTECTION (FRONT SIDE)	IP65
NUMBER OF POLES	Four-pole
MOUNTING METHOD	Surface mounting
DEGREE OF PROTECTION	NEMA 12
SUITABLE FOR	Ground mounting
LOCKING FACILITY	Lockable in the 0 (Off) position
FUNCTIONS	Interlockable STOP function
NUMBER OF SWITCHES	1
LIFESPAN, MECHANICAL	10,000 Operations
LET-THROUGH ENERGY	Max. 86,9 kA²s
TERMINAL CAPACITY	6 - 70 mm², flexible with

	ferrules to DIN 46228
SAFETY PARAMETER (EN ISO 13849-1)	B10d values as per EN ISO 13849-1, table C.1
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)	1080 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 OPERATING VOLTAGE (UE) - MAX	690 V
RATED OPERATING VOLTAGE (UE) - MIN	690 V
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
RATED OPERATIONAL CURRENT (IE) AT AC-21, 400 V, 415 V	160 A
SHORT-CIRCUIT PROTECTION RATING	160, Fuse, Contacts
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	140 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 500 V	66 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A,	42 A

690 V	
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	160 A
RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ	80 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 POWER AT AC-3, 380/400 V, 50 HZ	0 kW
TIGHTENING TORQUE	7 Nm, Screw terminals
UNINTERRUPTED CURRENT	Rated uninterrupted current Iu is specified for max. cross-section.
HOUSING MATERIAL	Plastic

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:



 Eaton House
30 Pembroke Road
Dublin 4, Eaton.com

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