

Specifications



Eaton 1314105

Eaton DCM Switch-disconnector, DCM, 40 A, 3P + N (solid), Stop Function optional, Without rotary handle and drive shaft, Vertical connection

General specifications

PRODUCT NAME	Eaton DCM Switch-disconnector
CATALOG NUMBER	1314105
MODEL CODE	DCM-40/1-SK
EAN	8711426803848
PRODUCT LENGTH/DEPTH	150 mm
PRODUCT HEIGHT	80 mm
PRODUCT WIDTH	90 mm
PRODUCT WEIGHT	0.4 kg
CERTIFICATIONS	RoHS EAC IEC/EN 60204 IEC/EN 60947 IEC/EN 60947-3 KEMA VDE 0660 Lloyds CE

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 INSULATION VOLTAGE (UI)	690 V
RATED OPERATIONAL CURRENT (IE) AT AC-21, 400 V, 415 V	40 A
RATED OPERATIONAL CURRENT (IE) AT AC-22, 380 V, 400 V, 415 V	40 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 400 V, 415 V	40 A
RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ	20 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	415 V
RATED UNINTERRUPTED CURRENT (IU)	40 A
UNINTERRUPTED CURRENT	Rated uninterrupted current Iu is specified for max. cross-section.

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	0.6 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	3 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	40 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W

Features & functions

FUNCTIONS	Optional Stop Function
NUMBER OF POLES	Three-pole + N

General information

ACTUATOR COLOR	Other
ACTUATOR TYPE	Other
CONNECTION TYPE	Vertical
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

Short-circuit rating

BREAKING CURRENT	7 kA
LET-THROUGH ENERGY	Max. 12 kA²s
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	50 kA
RATED SHORT-CIRCUIT MAKING CAPACITY (ICM)	2.2 kA _{eff}
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	1 kA 1 kA, Contacts, 1 second
SHORT-CIRCUIT PROTECTION RATING	50, Fuse, Contacts

- 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	Ground mounting Distribution board installation
Terminal capacities	
STRIPPING LENGTH (MAIN CABLE)	14 mm
TERMINAL CAPACITY	2.5 - 16 mm², solid 1.5 - 25 mm², flexible

Resources

CATALOGUES	eaton-industrial-switch-disconnectors-catalogue-ca008011en-en-gb.pdf
DECLARATIONS OF CONFORMITY	eaton-switch-disconnector-declaration-of-conformity-uk251111en.pdf eaton-switch-disconnector-declaration-of-conformity-eu250628en.pdf
DRAWINGS	eaton-rotary-switches-dcm-switch-disconnector-dimensions.eps eaton-general-switch-t0-main-switch-symbol.eps
ECAD MODEL	DA-CE-ETN.DCM-40_1-SK_VC
INSTALLATION INSTRUCTIONS	eaton-switch-disconnector-dmm-dcm-il008025zu.pdf
WIRING DIAGRAMS	eaton-rotary-switches-dmm-switch-disconnector-wiring-diagram-002.eps eaton-rotary-switches-main-switch-dmm-switch-disconnector-wiring-diagram.eps

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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