Specifications



Eaton 1319916

Eaton QM Changeover switch, QM, 100 A, 2 x 3 pole + N (switched), without rotary handle, With drive shaft, 6 mm square

General specifications	
PRODUCT NAME	Eaton QM Changeover switch
CATALOG NUMBER	1319916
MODEL CODE	QM100/3N
EAN	8711426233317
PRODUCT LENGTH/DEPTH	19.5 mm
PRODUCT HEIGHT	14.2 mm
PRODUCT WIDTH	10.7 mm
PRODUCT WEIGHT	1.1 kg
CERTIFICATIONS	CE IEC/EN 60204 VDE 0660 IEC/EN 60947-3 RoHS IEC/EN 60947

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 (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 CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	15 kA
RATED INSULATION VOLTAGE (UI)	690 V
RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ	37 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	30 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
RATED UNINTERRUPTED CURRENT (IU)	100 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	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	8 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	100 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W

Features & functions

FITTED WITH:	Drive shaft
FUNCTIONS	Optional Stop Function
NUMBER OF POLES	Four-pole

General information

ACCESSORIES	Auxiliary contact fitted by user.
ACTUATOR TYPE	Other
DEGREE OF PROTECTION	NEMA Other
DEGREE OF PROTECTION (FRONT SIDE)	IP20
MOUNTING METHOD	Rear mounting Top-hat rail mounting
MOUNTING POSITION	As required
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
PRODUCT CATEGORY	Changeover switches
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V
SAFETY PARAMETER (EN ISO 13849-1)	B10d values as per EN ISO 13849-1, table C.1

Terminal capacities

STRIPPING LENGTH (MAIN CABLE)	14 mm
TERMINAL CAPACITY	1 x (10 - 50) mm², solid 1 x (10 - 35) mm², flexible
TIGHTENING TORQUE	3 Nm, Screw terminals

Resources

CATALOGUES	Product Range Catalog Industrial switch-disconnectors eaton-industrial-switch-disconnectors-catalogue-ca008011en-en-gb.pdf

DECLARATIONS OF CONFORMITY	eaton-changeover-switch-declaration-of-conformity-uk251305en.pdf eaton-changeover-switch-declaration-of-conformity-eu250822en.pdf
DRAWINGS	eaton-rotary-switches-qm-changeover-switch-dimensions-004.eps eaton-general-mounting-p1-main-switch-symbol-002.eps
ECAD MODEL	DA-CE-ETN.QM100_3N
INSTALLATION INSTRUCTIONS	IL008038ZU
WIRING DIAGRAMS	eaton-rotary-switches-qm-changeover-switch-wiring-diagram-002.eps

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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