DATASHEET - QM100/3N

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

Powering Business Worldwide

Part no. QM100/3N
1319916

General specifications	
Product name	Eaton QM Changeover switch
Part no.	QM100/3N
EAN	8711426233317
Product Length/Depth	19.5 millimetre
Product height	14.2 millimetre
Product width	10.7 millimetre
Product weight	1.1 kilogram
Certifications	VDE 0660 IEC/EN 60947 CE RoHS IEC/EN 60947-3 IEC/EN 60204
Product Tradename	QM
Product Type	Changeover switch
Product Sub Type	None
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
Climatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	55 °C
Ambient storage temperature - min	-30 °C
Ambient storage temperature - max	80 °C
Terminal capacities	
Terminal capacity	1 x (10 - 50) mm^2, solid 1 x (10 - 35) mm^2, flexible
Stripping length (main cable)	14 mm
Tightening torque	3 Nm, Screw terminals
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.
Contacts	
Number of auxiliary contacts (normally closed contacts)	0
Number of auxiliary contacts (normally open contacts)	0
Design verification	
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
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.
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.
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.