

Circuit-breaker 4 pole, 50A



Part no. **NZMS1-4-A50**
109952

General specifications		
Product name		Eaton Moeller series NZM molded case circuit breaker thermo-magnetic
Part no.		NZMS1-4-A50
EAN		4015081095186
Product Length/Depth		84.5 millimetre
Product height		145 millimetre
Product width		120 millimetre
Product weight		1.325 kilogram
Compliances		RoHS conform
Product Tradename		NZM
Product Type		Molded case circuit breaker
Product Sub Type		Thermo-magnetic
Delivery program		
Number of poles		Four-pole
Amperage Rating		50 A
Features		Protection unit
Special features		Rated current = rated uninterrupted current: 50 A
Technical Data - Electrical		
Voltage rating		690 V - 690 V
Current rating of neutral conductor		100% of phase conductor
Instantaneous current setting (Ii) - min		6 A
Instantaneous current setting (Ii) - max		10 A
Overload current setting (Ir)		40 A - 50 A
Overload current setting (Ir) - min		40 A
Overload current setting (Ir) - max		50 A
Short delay current setting (Isd) - min		0 A
Short delay current setting (Isd) - max		0 A
Short-circuit release non-delayed setting - min		6 A
Short-circuit release non-delayed setting - max		10 A
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 400/415 V, 50/60 Hz		70 kA
Electrical connection type of main circuit		Frame clamp
Handle type		Rocker lever
Technical Data - Mechanical		
Mounting Method		DIN rail (top hat rail) mounting optional Built-in device fixed built-in technique
Degree of protection		IP20
Number of auxiliary contacts (change-over contacts)		0
Number of auxiliary contacts (normally closed contacts)		0
Number of auxiliary contacts (normally open contacts)		0
Position of connection for main current circuit		Front side
Special features		Rated current = rated uninterrupted current: 50 A
Design verification as per IEC/EN 61439 - technical data		
Equipment heat dissipation, current-dependent		13.2 W
Ambient operating temperature - min		-25 °C
Ambient operating temperature - max		70 °C
Ambient storage temperature - min		40 °C
Ambient storage temperature - max		70 °C
Design verification as per IEC/EN 61439		

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.