

Part no. **NZMS1-A20-SVE**
112780

General specifications		
Product name		Eaton Moeller series NZM molded case circuit breaker thermo-magnetic
Part no.		NZMS1-A20-SVE
EAN		4015081123209
Product Length/Depth		88 millimetre
Product height		145 millimetre
Product width		90 millimetre
Product weight		1.209 kilogram
Compliances		RoHS conform
Product Tradename		NZM
Product Type		Molded case circuit breaker
Product Sub Type		Thermo-magnetic
Delivery program		
Number of poles		Three-pole
Amperage Rating		20 A
Features		Protection unit
Special features		Rated current = rated uninterrupted current: 20 A
Technical Data - Electrical		
Voltage rating		690 V - 690 V
Instantaneous current setting (Ii) - min		350 A
Instantaneous current setting (Ii) - max		350 A
Overload current setting (Ir) - min		15 A
Overload current setting (Ir) - max		20 A
Short delay current setting (Isd) - min		0 A
Short delay current setting (Isd) - max		0 A
Short-circuit release non-delayed setting - min		350 A
Short-circuit release non-delayed setting - max		350 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		Built-in device plug-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		Back side
Special features		Rated current = rated uninterrupted current: 20 A
Technical Data - Mechanical - Terminals		
Terminal capacity (copper solid conductor/cable)		4 mm ² - 16 mm ² (2x) direct at switch rear-side connection 6 mm ² - 16 mm ² (1x) direct at switch rear-side connection 10 mm ² - 16 mm ² (1x) at box terminal 4 mm ² - 16 mm ² (2x) at box terminal
Terminal capacity (copper stranded conductor/cable)		4 mm ² - 25 mm ² (2x) at box terminal 4 mm ² - 25 mm ² (2x) direct at switch rear-side connection 6 mm ² - 70 mm ² (1x) at box terminal 6 mm ² - 70 mm ² (1x) direct at switch rear-side connection
Design verification as per IEC/EN 61439 - technical data		
Equipment heat dissipation, current-dependent		9.82 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.