DATASHEET - NZMS3-4-VE400/250-T-AVE

Circuit-breaker 4-pole 400/250A, selective protect, earth fault protection, withdrawable unit



Part no.

NZMS3-4-VE400/250-T-AVE 113605

Product name	Eaton Moeller series NZM molded case circuit breaker electronic
Part no.	NZMS3-4-VE400/250-T-AVE
EAN	4015081131303
Product Length/Depth	346 millimetre
Product height	260 millimetre
Product width	230 millimetre
Product weight	14.025 kilogram
Compliances	RoHS conform
Certifications	IEC/EN 60947
Product Tradename	NZM
Product Type	Molded case circuit breaker
Product Sub Type	Electronic
Application	690 V
Туре	Circuit breaker
Circuit breaker frame type	NZM3
Accessories required	NZM3-4-XAVS
Number of poles	Four-pole
Amperage Rating	400 A
Release system	Electronic release
Features	Motor drive optional Protection unit
Special features	2) Up to 240 mm ² can be connected depending on the cable manufacturer. Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short- circuit breaking capacity Icn) R.m.s. value measurement and "thermal memory" Adjustable time delay setting to overcome current peaks tr at 6 x Ir also infinity (without overload releases) Adjustable delay time tsd i ² t constant function: switchable Earth-fault release: Not dependent on mains and control voltages Ig = 0.35 - 0.4 - 0.5 - 0.6 - 0.7 - 0.8 - 0.9 - 1.0 x In tg = 0 - 20 - 60 - 100 - 200 - 300 - 500 - 750 - 1000 ms Rated current = rated uninterrupted current: 400 A Reduced neutral conductor protection
Voltage rating	690 V - 690 V
Rated insulation voltage (Ui)	1000 V AC
Rated impulse withstand voltage (Uimp) at auxiliary contacts	6000 V
Rated impulse withstand voltage (Uimp) at main contacts	8000 V
Current rating of neutral conductor	60% of phase conductor 250 A
Rated short-time withstand current (t = 0.3 s)	3.3 kA
Rated short-time withstand current (t = 1 s)	3.3 kA
Instantaneous current setting (li) - min	800 A
Instantaneous current setting (li) - max	4400 A
Overload current setting (Ir) - min	200 A
Overload current setting (Ir) - max	400 A
Short delay current setting (Isd) - min	800 A
Short delay current setting (Isd) - max	4000 A
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 230 V, 50/60 Hz	100 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 400/415 V, 50/60 Hz	70 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 440 V, 50/60 Hz	65 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 525 V, 50/60 Hz	18 kA

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Lifespan, mechanical 15000 operations	
Standard terminals	
Standard terminals Screw connection	
Optional terminals Box terminal. Connection on rear. Tunnel terminal Turningle connection connection on rear. Tunnel terminal	
Terminal capacity (control cable) 0.75 mm² - 1.5 mm² (2x) 0.75 mm² - 2.5 mm² (1x)	
Terminal capacity (aluminum solid conductor/cable) 16 mm² (1x) at tunnel terminal	
Terminal capacity (aluminum stranded conductor/cable) 25 mm² - 185 mm² (1x) at tunnel terminal 50 mm² - 240 mm² (1x) at 2-hole tunnel terminal 50 mm² - 240 mm² (2x) at 2-hole tunnel terminal	
Terminal capacity (copper busbar) M10 at rear-side screw connection Min. 20 mm x 5 mm direct at switch rear-side connection Max. 10 mm x 50 mm (2x) at rear-side width extension Max. 30 mm x 10 mm x 5 mm direct at switch rear-side connection	
Terminal capacity (copper solid conductor/cable) 300 mm² (2x) at rear-side width extension 16 mm² (1x) at tunnel terminal 16 mm² (2x) direct at switch rear-side connection 16 mm² (2x) at box terminal 16 mm² (2x) direct at switch rear-side connection 16 mm² (1x) at box terminal 16 mm² (1x) direct at switch rear-side connection	

Terminal capacity (copper stranded conductor/cable)	35 mm ² - 240 mm ² (1x) at box terminal 25 mm ² - 240 mm ² (2x) direct at switch rear-side connection 25 mm ² - 240 mm ² (1x) direct at switch rear-side connection 16 mm ² - 185 mm ² (1x) at 1-hole tunnel terminal 25 mm ² - 120 mm ² (2x) at box terminal
Terminal capacity (copper strip)	Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm at box terminal Min. 6 segments of 16 mm x 0.8 mm at box terminal 10 segments of 50 mm x 1 mm (2x) at rear-side width extension Max. 10 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm at rear-side connection (punched)
	100.4
Rated operational current for specified heat dissipation (In)	400 A
Equipment heat dissipation, current-dependent	72 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
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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.
Functions	Earth-fault protection Systems, cable, selectivity and generator protection Integrated earth fault protection