## Switch-disconnector 3p 800A BG4

Part no. N4-800 266025

EL Number 4358920

(Norway)



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General specifications	
Product name	Eaton Moeller series NZM switch-disconnector
Part no.	N4-800
EAN	4015082660253
Product Length/Depth	401 millimetre
Product height	207 millimetre
Product width	210 millimetre
Product weight	17.248 kilogram
Compliances	RoHS conform
Certifications	IEC IEC/EN 60947
Product Tradename	NZM
Product Type	Switch-disconnector
Product Sub Type	None
Delivery program	
Application	Use in unearthed supply systems at 525 V
Туре	Switch-disconnector
Circuit breaker frame type	N4
Number of poles	Three-pole
Amperage Rating	800 A
Features	Version as main switch Motor drive optional Version as emergency stop installation Version as maintenance-/service switch
Special features	Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113. Isolating characteristics to IEC/EN 60947-3 and VDE 0660. Busbar tag shroud to VDE 0160 Part 100. Rated current = rated uninterrupted current: 800 A
Technical Data - Electrical	
Voltage rating	690 V - 690 V
Rated operating voltage (Ue) at AC - max	690 V
Rated insulation voltage (Ui)	1000 V
Rated impulse withstand voltage (Uimp) at auxiliary contacts	6000 V
Rated impulse withstand voltage (Uimp) at main contacts	8000 V
Rated conditional short-circuit current (Iq)	0 kA
Rated operational current	1600 A (415 V AC-22/23A, making and breaking capacity) 1600 A (690 V AC-22/23A, making and breaking capacity)
Rated permanent current at AC-21, 400 V	0 A
Rated permanent current at AC-23, 400 V	0 A
Rated conditional short-circuit current with back-up fuse	80 kA at 690 V N4-6301600: 2 x 800 AgGgL 100 kA at 400/415 V
Rated conditional short-circuit current with downstream fuse	80 kA at 690 V 100 kA at 400/415 V N4-630…1600: 2 x 800 AgGgL
Rated short-time withstand current (Icw)	25 kA
Rated short-time withstand current (t = 0.3 s)	25 kA
Rated short-time withstand current (t = 1 s)	25 kA
Rated operating frequency	50 Hz
Rated short-circuit making capacity Icm at 690 V, 50/60 Hz	53 kA
Rated operating power at AC-3, 400 V	0 kW
Rated operating power at AC-23, 400 V	450 kW

Switching power at 400 V	0 kW
Short-circuit protective device fuses - max	1600 A gL
Electrical connection type of main circuit	Bolt connection
Isolation	300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and main contacts)
Number of operations per hour - max	60
Handle type	Rocker lever
Overvoltage category	III
Pollution degree	3
Lifespan, electrical	2000 operations at 400 V AC-3 2000 operations at 415 V AC-3 3000 operations at 400 V AC-1 1000 operations at 690 V AC-3 2000 operations at 690 V AC-1 3000 operations at 415 V AC-1
Direction of incoming supply	As required
Technical Data - Mechanical	
Mounting Method	Intermediate mounting Ground mounting Fixed Built-in device fixed built-in technique Distribution board installation
Degree of protection	IP20 (basic protection type, in the area of the HMI devices) Other
Degree of protection (IP), front side	IP20 IP40 (with insulating surround) IP66 (with door coupling rotary handle)
Degree of protection (terminations)	IP10 (tunnel terminal) IP00 (terminations, phase isolator and band terminal)
Protection against direct contact	Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part 263
Shock resistance	15 g (half-sinusoidal shock 11 ms)
Number of auxiliary contacts (change-over contacts)	0
Number of auxiliary contacts (normally closed contacts)	0
Number of auxiliary contacts (normally open contacts)	0
Number of switches	1
Handle color	Black
Switch positions Climatic proofing	I, +, 0  Damp heat, cyclic, to IEC 60068-2-30  Damp heat, constant, to IEC 60068-2-78
Special features	Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113 Isolating characteristics to IEC/EN 60947-3 and VDE 0660. Busbar tag shroud to VDE 0160 Part 100. Rated current = rated uninterrupted current: 800 A
Lifespan, mechanical	10000 operations
Technical Data - Mechanical - Terminals	
Standard terminals	Screw terminal Screw terminal
Optional terminals	Connection on rear. Strip terminal. Tunnel terminal
Terminal capacity (aluminum solid conductor/cable)	240 mm² (2x) at rear-side width extension 70 mm² - 240 mm² (6x) at rear-side width extension
Terminal capacity (aluminum stranded conductor/cable)	50 mm <sup>2</sup> - 240 mm <sup>2</sup> (4x) at 4-hole tunnel terminal
Terminal capacity (copper busbar)	50 mm x 10 mm (2x) at rear-side 2-hole module plate Max. 80 mm x 10 mm (2x) at rear-side width extension Min. 60 mm x 10 mm at rear-side width extension M10 at rear-side screw connection Min. 25 mm x 5 mm direct at switch rear-side connection Min. 25 mm x 5 mm at rear-side 1-hole module plate Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate Max. 50 mm x 10 mm (2x) direct at switch rear-side connection
Terminal capacity (copper solid conductor/cable)	300 mm² (4x) at rear-side width extension 185 mm² - 240 mm² (1x) at rear-side 1-hole module plate 50 mm² (4x) at rear-side 2-hole module plate 95 mm² - 240 mm² (6x) at rear-side width extension 50 mm² - 240 mm² (4x) at 4-hole tunnel terminal 35 mm² - 185 mm² (4x) at rear-side 2-hole module plate 70 mm² - 185 mm² (2x) at rear-side 1-hole module plate
Terminal capacity (copper stranded conductor/cable)	120 mm² - 185 mm² (1x) direct at switch rear-side connection 50 mm² - 185 mm² (4x) direct at switch rear-side connection
Terminal capacity (copper strip)	Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal Max. 10 segments of 50 mm x 1 mm (2x) at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm (2x) at flat conductor terminal

	10 segments of 80 mm x 1 mm (2x) at rear-side width extension 10 segments of 50 mm x 1 mm (2x) at 1-hole module plate Min. 10 segments of 50 mm x 1 mm (2x) at rear-side connection (punched)
Design verification as per IEC/EN 61439 - technical data	
Rated operational current for specified heat dissipation (In)	800 A
Equipment heat dissipation, current-dependent	79 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 b observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must bobserved.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
Additional information	
Functions	Interlockable Disconnectors/main switches Voltage release optional

## **Technical data ETIM 9.0**

Low-voltage industrial components (EG000017) / Switch disconnector (low voltage) (EC000216)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss13-27-37-14-03 [AKF060018])

Version as main switch		Yes
Version as maintenance-/service switch		Yes
Version as safety switch		No
Version as emergency stop installation		Yes
Version as reversing switch		No
Number of switches		1
Max. rated operation voltage Ue AC	V	690
Rated operating voltage	V	690 - 690
Rated permanent current lu	Α	
Rated permanent current at AC-23, 400 V	Α	0
Rated permanent current at AC-21, 400 V	Α	0
Rated operation power at AC-3, 400 V	kW	0
Rated short-time withstand current lcw	kA	25
Rated operation power at AC-23, 400 V	kW	450

Switching power at 400 V	kW	0
Conditioned rated short-circuit current Iq	kA	0
Number of poles		3
Number of auxiliary contacts as normally closed contact		0
Number of auxiliary contacts as normally open contact		0
Number of auxiliary contacts as change-over contact		0
Motor drive optional		Yes
Motor drive integrated		No
Voltage release optional		Yes
Device construction		Built-in device fixed built-in technique
Suitable for floor mounting		Yes
Suitable for front mounting 4-hole		No
Suitable for front mounting centre		No
Suitable for distribution board installation		Yes
Suitable for intermediate mounting		Yes
Colour control element		Black
Type of control element		Rocker lever
Interlockable		Yes
Type of electrical connection of main circuit		Bolt connection
With pre-assembled cabling		No
Degree of protection (IP), front side		IP20
Degree of protection (NEMA)		Other
Width	mm	210
Height	mm	207
Depth	mm	401
Width in number of modular spacings		