Switch-disconnector 3p, 200A

Part no. PN2-200 266006



Eaton Moeller series NZM switch-disconnector
PN2-200
4015082660062
142 millimetre
185 millimetre
105 millimetre
1.901 kilogram
RoHS conform
IEC IEC/EN 60947
NZM
Switch-disconnector
None
Use in unearthed supply systems at 690 V
Switch-disconnector
PN2
Three-pole
200 A
Version as main switch
Version as maintenance-/service switch Version as emergency stop installation
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: 200 A The rated short-time withstand current for PN2/N2 in conjunction with earth-fault release NZM2-4-XFIIcw = 1.5 kA
690 V - 690 V
690 V
690 V
6000 V
8000 V
0 kA
250 A (690 V AC-22/23A, making and breaking capacity) 250 A (415 V AC-22/23A, making and breaking capacity)
0 A
0 A
PN2(N2)-160250: 250 AgGgL 80 kA at 690 V 100 kA at 400/415 V
100 kA at 400/415 V 80 kA at 690 V PN2(N2)-160…250: 250 AgGgL
3.5 kA
3.5 kA
3.5 kA
50 to 60 Hz
50 Hz
5.5 kA
0 kW
110 kW

Switching power at 400 V	0 kW
Short-circuit protective device fuses - max	250 A gL
Electrical connection type of main circuit	Screw connection
Isolation	300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and main contacts)
Number of operations per hour - max	120
Handle type	Rocker lever
Overvoltage category	III
Pollution degree	3
Lifespan, electrical	10000 operations at 400 V AC-1 10000 operations at 415 V AC-1 5000 operations at 690 V AC-3 7500 operations at 690 V AC-1 7500 operations at 400 V AC-3 7500 operations at 415 V AC-3
Direction of incoming supply	As required
Technical Data - Mechanical	
Mounting Method	Fixed Distribution board installation Ground mounting Built-in device fixed built-in technique Intermediate mounting
Degree of protection	IP20 (basic protection type, in the area of the HMI devices) Other
Degree of protection (IP), front side	IP40 (with insulating surround) IP20
	IP66 (with door coupling rotary handle)
Degree of protection (terminations)	IP00 (terminations, phase isolator and band terminal) IP10 (tunnel terminal)
Protection against direct contact	Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part 110
Shock resistance	20 g (half-sinusoidal shock 20 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 Disab
Handle color	Black
Switch positions Climatic proofing	I, 0 Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
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: 200 A The rated short-time withstand current for PN2/N2 in conjunction with earth-fault release NZM2-4-XFIIcw = 1.5 kA
Lifespan, mechanical	20000 operations
Technical Data - Mechanical - Terminals	
Standard terminals	Screw terminal
Optional terminals	Box terminal. Connection on rear. Tunnel terminal
Terminal capacity (aluminum solid conductor/cable)	10 mm² - 16 mm² (2x) direct at switch rear-side connection 16 mm² (1x) at tunnel terminal 10 mm² - 16 mm² (1x) direct at switch rear-side connection
Terminal capacity (aluminum stranded conductor/cable)	25 mm² - 185 mm² (1x) at 1-hole tunnel terminal
Terminal capacity (copper busbar)	Min. 16 mm x 5 mm direct at switch rear-side connection Max. 24 mm x 8 mm direct at switch rear-side connection M8 at rear-side screw connection
Terminal capacity (copper solid conductor/cable)	6 mm² - 16 mm² (2x) direct at switch rear-side connection 16 mm² (1x) at tunnel terminal 10 mm² - 16 mm² (1x) direct at switch rear-side connection 10 mm² - 16 mm² (1x) at box terminal 6 mm² - 16 mm² (2x) at box terminal
Terminal capacity (copper stranded conductor/cable)	25 mm² - 185 mm² (1x) direct at switch rear-side connection 25 mm² - 70 mm² (2x) at box terminal 25 mm² - 70 mm² (2x) direct at switch rear-side connection 25 mm² - 185 mm² (1x) at box terminal 25 mm² - 185 mm² (1x) at 1-hole tunnel terminal
Terminal capacity (copper strip)	Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 16 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Max. 8 segments of 15.5 mm x 0.8 mm (2x) at box terminal

	Min. 2 segements of 16 mm x 0.8 mm at rear-side connection (punched)
Design verification as per IEC/EN 61439 - technical data	
Rated operational current for specified heat dissipation (In)	200 A
Equipment heat dissipation, current-dependent	30.72 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
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.
Additional information	
Functions	Disconnectors/main switches Interlockable

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])

[AKFU0UU18])		
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	3.5
Rated operation power at AC-23, 400 V	kW	110
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		No
Motor drive integrated		No
Voltage release optional		No
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		Screw connection
With pre-assembled cabling		No
Degree of protection (IP), front side		IP20
Degree of protection (NEMA)		Other
Width	mm	105
Height	mm	185
Depth	mm	142
Width in number of modular spacings		