DATASHEET - N4-4-800-S1-DC



Switch-disconnector 4p 800A 1000VDC

N4-4-800-S1-DC 119890

0004356076



EL-Nummer (Norway)

Part no. Catalog No.

Similar to illustration

Delivery program

Isolating characteristics to N switch-disconnectors ca shunt releases and auxilia For DC switching, all 4 con information on jumper kit a Supplied as standard: Scree When working with ungrou a double ground fault will b Switch can not be combine rear.	
Product range DC switch-disconnectors Application field Utility buildings Open areas Part no. M.DC Standard/Approval M.DC Rated operational voltage IOO Installation type Fixed Construction size MA Description IEC/EN 60947-3 CCCC China Computory Cector and anxing	
Application fieldUtility buildings Open areasPart no.MDCStandard/ApprovalIECRated operational voltage1000Installation typeM4Construction sizeN4DescriptionStandard SeriesOnnection optionsStandard SeriesConnection optionsStandard Series	ificata
Part no. Image: Comparison of the comp	ificata
Standard/ApprovalIECRated operational voltageIOOInstallation typeICOConstruction sizeN4DescriptionIEC/EN 60947-3CCC China Compulsory Cer Main switch characteristic Isolating characteristic soluting characteristic 	ificata
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Connection options	ificato
	s including positive drive to IEC/EN 60204 and VDE 0113. IEC/EN 60947-3 and VDE 0660. n, in addition, be combined with NZMXU, NZMXA y contacts as well as with NZMXR remote operator. acts must be connected in series. Refer to the ccessories. w connection; box terminal optional. nded systems (e.g., IT), the installation must ensure that
Number of poles 4-pole basic device, usable type of connection	in a 1-pole or 2-pole configuration depending on the
Standard equipment Screw connection	
Switch positions I, +, 0	
Rated current = rated uninterrupted current $I_n = I_u$ A 800	
Remotely control / trip Remote operation with shu	

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Technical data			
Switch-disconnectors			
Rated operational voltage, max.	Ue	V DC	1000
Rated uninterrupted current with terminal jumpers			
at 40°			800
at 65°			800
			Values for rated uninterrupted current at 65 °C include jumpers.
Utilization category			DC-22A
Rated operational current	Ι _e	Α	
DC 22-A	le	А	800
DC-21B	Ι _e	CSA	1400
Overvoltage category/pollution degree			111/3
Rated insulation voltage	Ui	V	1250
Ambient temperature			
Ambient temperature, storage		°C	- 40 - + 70
Operation		°C	-25 - +70
Rated short-time withstand current			
t = 0.1 s	I _{cw}	kA	34
Lifespan, mechanical			
Max. operating frequency		Ops/h	60
Lifespan, mechanical	Operations		10000
			Lifespan, mechanical: of which max. 50 % trip by shunt/undervoltage release
Ferminal capacity			
Standard equipment			Screw connection
Round copper conductor			
Tunnel terminal			
Stranded			
Double hole		mm ²	1 x (50 - 240)
			2 x (50 - 240)
4-hole		mm ²	4 x (50 - 240)
Bolt terminals			
Direct on the switch			
Stranded		mm ²	1 x (120 - 185)
			4 x (50 - 185)
Module plate			
Single hole	min.	mm ²	1 x (120 - 300)
Single hole	max.	mm ²	2 x (95 - 300)
Module plate			
Double hole	min.	mm ²	2 x (95 - 185)
Double hole	max.		4 x (35 - 185)
	IIIdX.	mm ²	4 × (55 - 105)
Connection width extension		mm ²	
Connection width extension		mm ²	4 x 300 6 x (95 - 240)
Al conductors, Cu cable			
Tunnel terminal			
Stranded			
Double hole		mm ²	1 x (50 - 240)
			2 x (50 - 240)
4-hole		mm ²	4 x (25 - 240)
Bolt terminal and rear-side connection			
Flat copper strip, with holes	min.	mm	(2x) 10 x 50 x 1.0
Flat copper strip, with holes	max.	mm	(2x) 10 x 50 x 1.0
Connection width extension		mm	(2x) 10 x 80 x 1,0
Cu strip (number of segments x width x segment thickness)			

DC

Rated operating frequency

Flat conductor terminal			
	min.	mm	6 x 16 x 0.8
	max.	mm	(2x) 10 x 32 x 1.0
Module plate			
Single hole		mm	(2x) 10 x 50 x 1,0
Bolt terminal and rear-side connection			
Flat copper strip, with holes	min.	mm	(2x) 10 x 50 x 1.0
Flat copper strip, with holes	max.	mm	(2x) 10 x 50 x 1.0
Connection width extension		mm	(2x) 10 x 80 x 1,0
Copper busbar (width x thickness)	mm		
Bolt terminal and rear-side connection			
Screw connection			M10
Direct on the switch			
	min.	mm	25 x 5
	max.	mm	2 x (50 x 10) 2 x (80 x 10)
Module plate			
Single hole	min.	mm	25 x 5
Single hole	max.	mm	2 x (50 x 10)
Module plate			
Double hole		mm	2 x (50 x 10)
Connection width extension		mm	
Connection width extension	min.	mm	60 x 10
Connection width extension	max.	mm	2 x (10 x 80)

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	А	800
Equipment heat dissipation, current-dependent	P _{vid}	W	95
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties			
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.

10.13 Mechanical function

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 7.0

Rated permanent current lu

Switching power at 400 V

Number of poles

Motor drive optional

Motor drive integrated

Voltage release optional

Suitable for ground mounting

Suitable for front mounting 4-hole

Suitable for front mounting centre

Suitable for intermediate mounting

Colour control element

Type of control element

Interlockable

Suitable for distribution board installation

Type of electrical connection of main circuit

Degree of protection (IP), front side

Degree of protection (NEMA)

Device construction

Rated permanent current at AC-23, 400 V

Rated permanent current at AC-21, 400 V

Rated operation power at AC-3, 400 V

Rated short-time withstand current lcw

Rated operation power at AC-23, 400 V

Conditioned rated short-circuit current Iq

Number of auxiliary contacts as normally closed contact

Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact

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

Electric engineering, automation, process control engineering / Low-voltage switch tech [AKF060013])	nology / Off-load sv	vitch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1-27-37-14-03
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	0
Rated operating voltage	V	1000 - 1000

А

А

Α

kW

kΑ

kW

kW

kΑ

800

0

0

0

34

0

0

0 4

0

0

0

Yes

No

Yes

Yes

No

No

Yes

Yes

Black

Yes

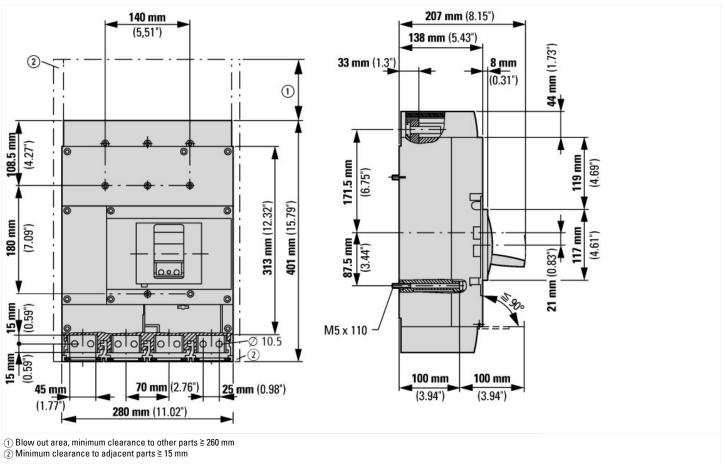
IP20

Rocker lever

Screw connection

Built-in device fixed built-in technique

Dimensions



Additional product information (links)

CurveSelect characteristics program	http://www.eaton.eu/DE/Europe/Electrical/CustomerSupport/ConfigurationTools/CharacteristicsProgram/ index.htm
Eaton configurator	http://www.eaton.eu/DE/Europe/Electrical/CustomerSupport/ConfigurationTools/ConfiguratorCircuitBreaker/ index.htm
Additional technical data: Photovoltaics catalog (starting on page 35)	http://www.moeller.net/binary/pdf_kat/br01601001z_en.pdf