

## Switch-disconnector 4p 800A 1000VDC

Part no. N4-4-800-S1-DC Article no. 119890



Similar to illustration

Disconnectors function  Disconnectors and environment  OC switch-disconnectors  Utility buildings  Grant no.  N.DC  IEC  IEC  INDUST SERIA 3  ICC Disso Comparison Controlled  National Controlled Series of the Series of Series	Delivery program			
Pleatrovollace applications OE switch-disconnectors Unity buildings Open areas art no. N.DC  IEC act operational voltage statishington type institution size  Reciption  Note the statishing of the statishing of the statishing positive drive to a LECEN BEEDA and VIBE BILL Isolating characteristics to EECN BORN-3 and VIDE BIRD. Naveth-disconnection collarge statishing contact as well as with 1221.—36, remote operation from the statishing characteristics to EECN BORN-3 and VIDE BIRD. Naveth-disconnections in a statishing characteristics to EECN BORN-3 and VIDE BIRD. Naveth-disconnections on pimper is an addition, be compared symbol sign. If it is addition, be compared symbol sign. If it is maistained in must one superation on pimper is an addition, be compared symbol sign. If it is maistained in must one superation on pimper is an addition. Declared symbol sign. If it is maistained in must one superation on pimper is an addition, be compared symbol sign. If it is maistained in must one superation on pimper is maintained systems sign. If it is maistained in must one superation on pimper is in maintained systems sign. If it is maistained in must one superation on pimper is in maintained systems sign. If it is maistained in must one superation on pimper is in maintained systems sign. If it is maintained must be combined with plug-in/windrawabile units and/or connection read.  Natsit-Of feeder and and outget from the bottom only.  Lapple basis divice, usable in a 1-pole or 2-pole configuration depending on the type of connection.  Screw connection of the combined with plug-in/windrawabile units and/or connection read.  The combined of the combined with plug-in/windrawabile units and/or connection read.  Natsit-Of feeder and and outget from the bottom only.	Product range			Switch-disconnectors
Utility buildings Open areas  Intro  Interface (Approval  and area (Approval  and area (Approval)  and (App	Protective function			
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International policy and attend per protection size  IECEN MOSST-7 CCC Dhew Computery Certificate Main switch characteristics including positive drive to IECEN 000204 and VIDE 011 Isolating characteristics in EUEN 00047-73 and VIDE 0000. N switch characteristics including youthout as well asked and VIDE 011 Isolating characteristics in EUEN 00047-73 and VIDE 0000. N switch characteristics including youthout as well will be promoted in the internation of jumper its EUEN 00047-73 and VIDE 0000. N switch characteristics includingly controct as you feel used and a resident. AMEL. XM. premise appear of information on jumper its EUEN 00047-73 and VIDE 0000. N switch characteristics includingly controct as you feel used and a resident. AMEL. XM. premise appear of information on jumper its EUEN 00047-73 and VIDE 0000. N switch characteristics including youthout as well asked as the information on jumper its EUEN 00047-75 and VIDE 0000. When working with unprocaded systems (e.g., IT), the installation must ensure the adult of the information of jumper its EUEN 00047-75 in the installation must ensure the adult of the information of jumper its EUEN 00047-75 in the installation must ensure the adult of the information of jumper its EUEN 00047-75 in the installation must ensure the adult of the information of jumper its EUEN 00047-75 in the installation must ensure the adult of the information of jumper its EUEN 00047-75 in the installation must ensure the adult of the information of jumper its EUEN 00047-75 in the installation must ensure the adult of the information of jumper its EUEN 00047-75 in the installation must ensure the adult of the information of jumper its EUEN 00047-75 in the installation must ensure the adult of the information of jumper its EUEN 00047-75 in the installation must ensure the information of jumper its EUEN 00047-75 in the installation must ensure the information of jumper its EUEN 00047-75 in the installation must ensure the information of jumper its EUEN 00047-75 in the installation must ensu	Application field			
atted doparational voltage  rescription  In EC/EN 80947-3  CCC Chain Compulsory Certificate Many avoids the accuracy can be considered with a LECA'S 80004 and VIDE D11  Rescription  In EC/EN 80947-3  CCC Chain Compulsory Certificate Many avoids the accuracy can be complicated with a LECA'S 80004 and VIDE D11  A white-disconnectors can, in addition, be combined with AVIL-XUN, XVII.XVII.XVII.XVII.XVII.XVII.XVII.XVII	Part no.			NDC
Internation size  N4  ESCF 89847.3  ESCF 99847.3  ESCF 998	Standard/Approval			IEC
onstruction size  In the secreption  In the secreption size of the s	Rated operational voltage			1000
ESCEN 80947-3 CCC China Computatory Certificate CCC China Computation of Control Computation of Computation Computation Control Computation Control Computation Control Computation CCC China Computation of Computation Control Control Control Computation Control CCC China Computation of Control Co	Installation type			Fixed
CCC China Compulsary Certificate Main switch hadamateristics in including positive drive to IEC/EN 60204 and VDE 011 Isolating characteristics to IEC/EN 60347-3 and VDE 0680. No switch-hadamateristics to IEC/EN 60347-3 and VDE 0780. No switch-hadam	Construction size			N4
Tumber of poles  4-pole basic device, usable in a 1-pole or 2-pole configuration depending on the type of connection  tandard equipment witch positions  1,+, 0  ated current = rated uninterrupted current  1 = 1	Description			CCC China Compulsory Certificate Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113. Isolating characteristics to IEC/EN 60947-3 and VDE 0660. N switch-disconnectors can, in addition, be combined with NZMXU, NZMXA shunt releases and auxiliary contacts as well as with NZMXR remote operator. For DC switching, all 4 contacts must be connected in series. Refer to the information on jumper kit accessories. Supplied as standard: Screw connection; box terminal optional. When working with ungrounded systems (e.g., IT), the installation must ensure that a double ground fault will be impossible. Switch can not be combined with plug-in/withdrawable units and/or connection on rear.
lumber of poles  4-pole basic device, usable in a 1-pole or 2-pole configuration depending on the type of connection  screw connection  I, +, 0  ated current = rated uninterrupted current  In = Iu A 800	Connection options			
tandard equipment  witch positions  ated current = rated uninterrupted current  type of connection  Screw connection  I, +, 0  800				
witch positions  In = Iu	Number of poles			type of connection
ated current = rated uninterrupted current I <sub>n</sub> = I <sub>u</sub> A 800	Standard equipment			Screw connection
	Switch positions			l, +, 0
emotely control / trip Remote operation with shunt releases / remote operator	Rated current = rated uninterrupted current	$I_n = I_u$	Α	800
	Remotely control / trip			Remote operation with shunt releases / remote operator

#### 12/16/2016 119890 - HPL-ED2016 V27.0 EN 2 / 5

min.

max.

 $mm^2$ 

mm<sup>2</sup>

 $\,\mathrm{mm}^2$ 

 $mm^2$ 

 $mm^2$ 

mm

mm

mm

4 x 300

6 x (95 - 240)

1 x (50 - 240)

2 x (50 - 240)

4 x (25 - 240)

(2x) 10 x 50 x 1.0

(2x) 10 x 50 x 1.0

(2x) 10 x 80 x 1,0

Connection width extension

Double hole fitting

Bolt terminal and rear-side connection
Flat copper strip, with holes

Flat copper strip, with holes

Connection width extension

Cu strip (number of segments  $\boldsymbol{x}$  width  $\boldsymbol{x}$  segment thickness)

Al conductors, Cu cable

Stranded

4-hole

Flat conductor terminal

Connection width extension

	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	In	Α	800
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	81
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 switch gear must be observed. $\label{eq:specification}$
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switchgear must be observed.

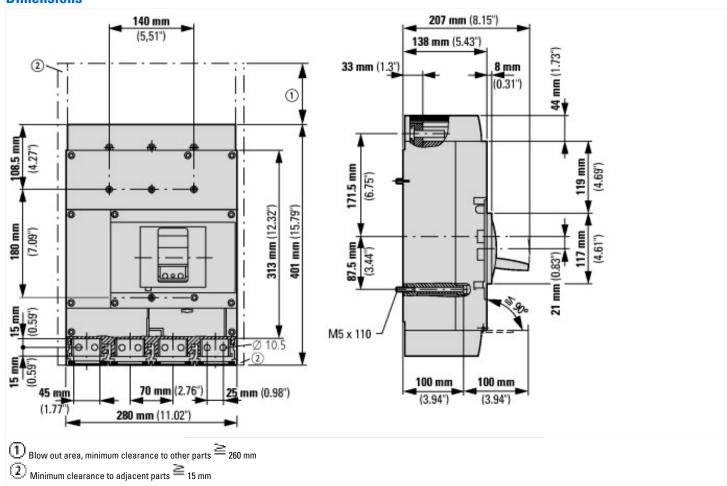
### **Technical data ETIM 6.0**

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

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss8.1-27-37-14-03

/ersion as main switch		Yes
/ersion as maintenance-/service switch		Yes
/ersion as safety switch		No
/ersion as emergency stop installation		Yes
Version as reversing switch		No
Max. rated operation voltage Ue AC	V	0
Rated operating voltage	V	1000 - 1000
Rated permanent current lu	А	800
Rated permanent current at AC-21, 400 V	А	0
Rated operation power at AC-3, 400 V	kW	0
Rated short-time withstand current lcw	kA	34
Rated operation power at AC-23, 400 V	kW	0
Switching power at 400 V	kW	0
Conditioned rated short-circuit current Iq	kA	0
lumber of poles		4
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
Notor drive optional		Yes
Motor drive integrated		No
/oltage release optional		Yes
Device construction		Built-in device fixed built-in technique
Suitable for ground mounting		Yes
Suitable for front mounting 4-hole		No
Suitable for front mounting center		No
Suitable for distribution board installation		Yes
Suitable for intermediate mounting		Yes
Colour control element		Black
ype of control element		Rocker lever
nterlockable		Yes
Type of electrical connection of main circuit		Screw connection
Degree of protection (IP), front side		IP20

## **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