DATASHEET - N4-4-1400-S1-DC



Switch-disconnector 4p 1400A 1000VDC

Part no. N4-4-1400-S1-DC Catalog No. 119887

EL-Nummer (Norway)

0004356079

Similar to illustration

Powering Business Worldwide*

Product range Switch disconnectors				
Protection function Product range Convention field Disconnector splitches Product range Convention field Disconnector splitches Product range Convention field Disconnector splitches D	Delivery program			
Product range De Switch-disconnectors Description Signature (Signature (Sig	Product range			Switch-disconnectors
Application field Usility buildings Open areas N_DC Standard Approval Read operational wildings IEC Read operational wildings IEC Construction size NA Description Contraction size NA Description CoC China Computary Certificate Man awayen the haracteristics including positive drive to IEC/EN 09024 and VIDE INIT Institute pharacteristics in IEC/EN 09027 3 and VIDE INIT Institute pharacteristics in IEC/EN 09027 3 and VIDE INIT Institute pharacteristics in IEC/EN 09027 3 and VIDE INIT Institute pharacteristics in IEC/EN 09027 3 and VIDE INIT Institute pharacteristics in IEC/EN 09027 3 and VIDE INIT Institute pharacteristics in IEC/EN 09027 3 and VIDE INIT Institute pharacteristics in IEC/EN 09027 3 and VIDE INIT Institute pharacteristics in IEC/EN 09027 3 and VIDE INIT Institute pharacteristics in IEC/EN 09027 3 and VIDE INIT Institute pharacteristics in IEC/EN 09027 3 and VIDE INIT Institute pharacteristics in IEC/EN 09027 3 and VIDE INIT Institute pharacteristics in IEC/EN 09027 3 and VIDE INIT Institute pharacteristics in IEC/EN 09027 3 and VIDE INIT Institute pharacteristics in IEC/EN 09027 3 and VIDE INIT Institute pharacteristics in IEC/EN 09027 3 and VIDE INIT Institute pharacteristics in IEC/EN 09027 3 and VIDE INIT Institute pharacteristics in IEC/EN 09027 3 and VIDE INIT Institute pharacteristics in IEC/EN 09027 3 and VIDE INIT INIT INIT INIT INIT INIT INIT INI	Protective function			
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Installation type Construction afze Description Construction afze No wheth-disconnectors can, in additional contention and violation and vi	Standard/Approval			IEC
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Description EC/EN 8/8947-3 CCC Chima Comparatory Certificate CCC Connection options EC/EN 8/8947-3 CCC Switching, all 4 contacts must be connected in series. Refer to the information on jumper kit accesses well as with IVAL—XIV. AVAI—XIVA When workform, out long with unique content on series. Supplied as standard Screw connection to steminal optional. When workform, out was quite and outgoor from the bottom only. Connection options CCC Connection options Number of poles Standard equipment South positions L ₂ = 1 L ₃ = 1 A 1400	Installation type			Fixed
Number of poles Number of poles Number of poles Number of poles Standard equipment Switch positions Number of poles Number of poles Standard equipment Switch positions Number of poles Number of poles Number of poles Standard equipment Switch positions Number of poles Number of poles Number of poles Number of poles Standard equipment Switch positions Number of poles Standard equipment Switch positions Number of poles Num	Construction size			N4
Number of poles A-pole basic device, usable in a 1-pole or 2-pole configuration depending on the type of connection Standard equipment Switch positions Rated current = rated uninterrupted current I _n = I _u A 1400	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 operato 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 the a double ground fault will be impossible. Switch can not be combined with plug-in/withdrawable units and/or connection orear.
type of connection Standard equipment Switch positions Rated current = rated uninterrupted current In = Iu A 1400	Connection opions			
Switch positions I, +, 0 Rated current = rated uninterrupted current In = Iu A 1400	Number of poles			
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	Switch positions			l, +, 0
	Rated current = rated uninterrupted current	$I_n = I_u$	Α	1400
,	Remotely control / trip			Remote operation with shunt releases / remote operator

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

Design verification as per IEC/EN 61439			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	1400
Equipment heat dissipation, current-dependent	P _{vid}	W	290
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. $\label{eq:constraint}$
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:constraint}$
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

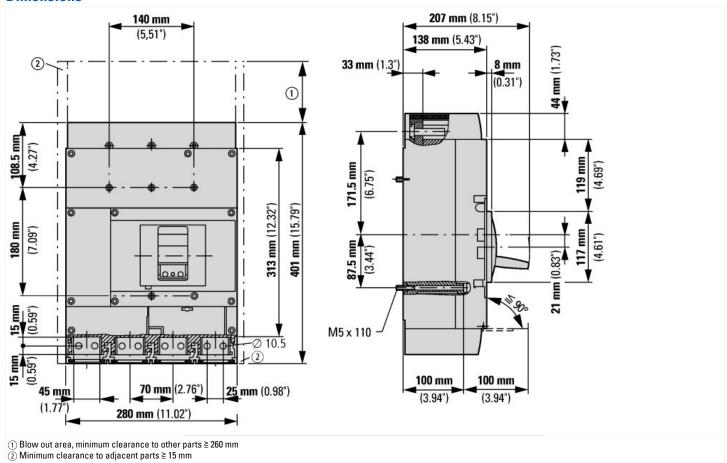
Technical data ETIM 7.0

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@ss10.0.1-27-37-14-03 [AKF060013])

[AKI 000013]/		
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
Rated permanent current lu	Α	1400
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	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
Number 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
Motor drive optional		Yes
Motor drive integrated		No
Voltage 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 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
Degree of protection (IP), front side		IP20
Degree of protection (NEMA)		

Dimensions



Additional product information (links)

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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