SIEMENS

Data sheet 3VA1116-1AA46-0AA0

Siemens EcoTech



switch disconnector 3VA1 IEC frame 160 4-pole SD100, In=160A without overload protection w/o short-circuit protection clamp connection

Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
product version	General applications
design of the product	in MCCB design
number of poles	4
design of the auxiliary release	without
design of the auxiliary switch	Without
General technical data	
insulation voltage / rated value	800 V
operating voltage / at DC / rated value	600 V
operating voltage / at AC / rated value	690 V
surge voltage resistance / rated value	8 kV
power loss [W] / maximum	38 W
mechanical service life (operating cycles) / typical	20 000
type of device	fixed mounting
suitability for use / switch disconnector	Yes
suitability for use / main switch	Yes
suitability for use / EMERGENCY OFF switch	Yes
suitability for use / maintenance/repair switch	Yes
product function / communication function	No
Net Weight	1.193 kg
Current	
short-time withstand current (Icw) / at AC / limited to 0.5 s / rated value	2 kA
operational current / rated value	160 A
operational current	
● at 40 °C	160 A
● at 45 °C	160 A
● at 50 °C	160 A
● at 55 °C	158 A
● at 60 °C	155 A
● at 65 °C	153 A
● at 70 °C	150 A
let-through I2t value / at AC-23 B	
● at 400 V / maximum permissible	475 000 $A^2 \cdot s$

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● at 500 V / maximum permissible	475 000 A²·s
● at 690 V / maximum permissible	475 000 A²·s
let-through current (Ic) / at AC-23 B	
● at 400 V / maximum permissible	20 kA
● at 500 V / maximum permissible	3 kA
● at 690 V / maximum permissible	3 kA
Switching capacity according to IEC 60947	
conditional short-circuit current (Iq) / with line-side fuse protection	
● at 415 V / by LV HRC fuse link 3NA, 3ND (sizes 00/000, 1, 2, type gL/gG) / rated value	70 kA
Mechanical Design	
overvoltage category	IV
fastening method	screw fixing
fastening method / 4-hole front mounting	Yes
fastening method / front mounting with central attachment	No
fastening method / rail mounting	No
product component	
● undervoltage release	No
● voltage trigger	No
● undervoltage release with leading contact	No
● trip indicator	No
product feature / interlock	No
height	130 mm
width	101.6 mm
depth	70 mm
display version / for switch position indicator	Handle switch position On, Trip, Off
design of the actuating element	toggle handle
type of the driving mechanism / motor drive	No
Connections	
arrangement of electrical connectors / for main current circuit	Front terminal
type of electrical connection / for main current circuit	Terminal connection
design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)	silver
design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)	Silver
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
number of NC contacts / for auxiliary contacts	0
number of NO contacts / for auxiliary contacts	0
Accessories	
product extension / auxiliary switch	No
product extension / optional / motor drive	Yes
Environmental conditions	
protection class IP / on the front	IP40
ambient temperature	
● during operation / minimum	-25 °C
● during operation / maximum	70 °C
● during storage / minimum	-40 °C
● during storage / maximum	80 °C
reference code / according to IEC 81346-2	Q
Approvals / Certificates	

General Product Approval





Miscellaneous



Confirmation



General Product Ap-	EMV	Test Certificates	Maritime application

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proval					
		Miscellaneous	Special Test Certific-ate		

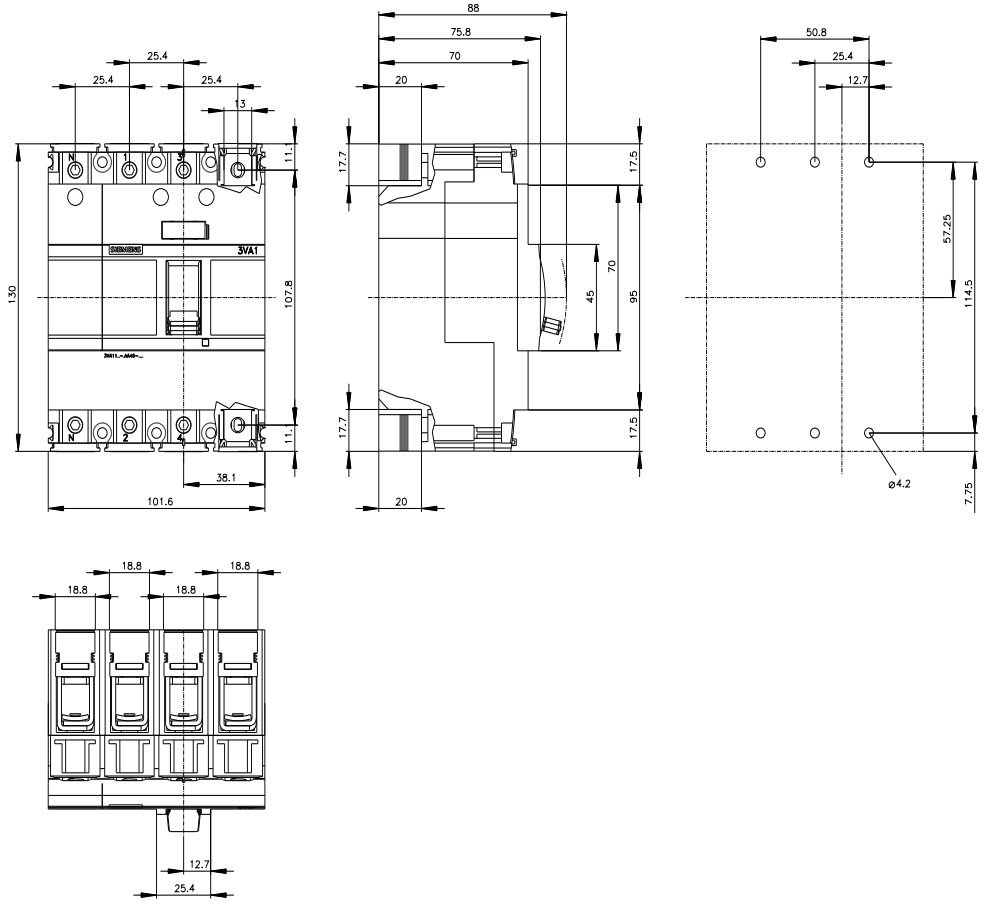
Maritime application		other			Environment
	CCS (China Classifica-tion Society)	Miscellaneous	Confirmation		Environmental Con-firmations

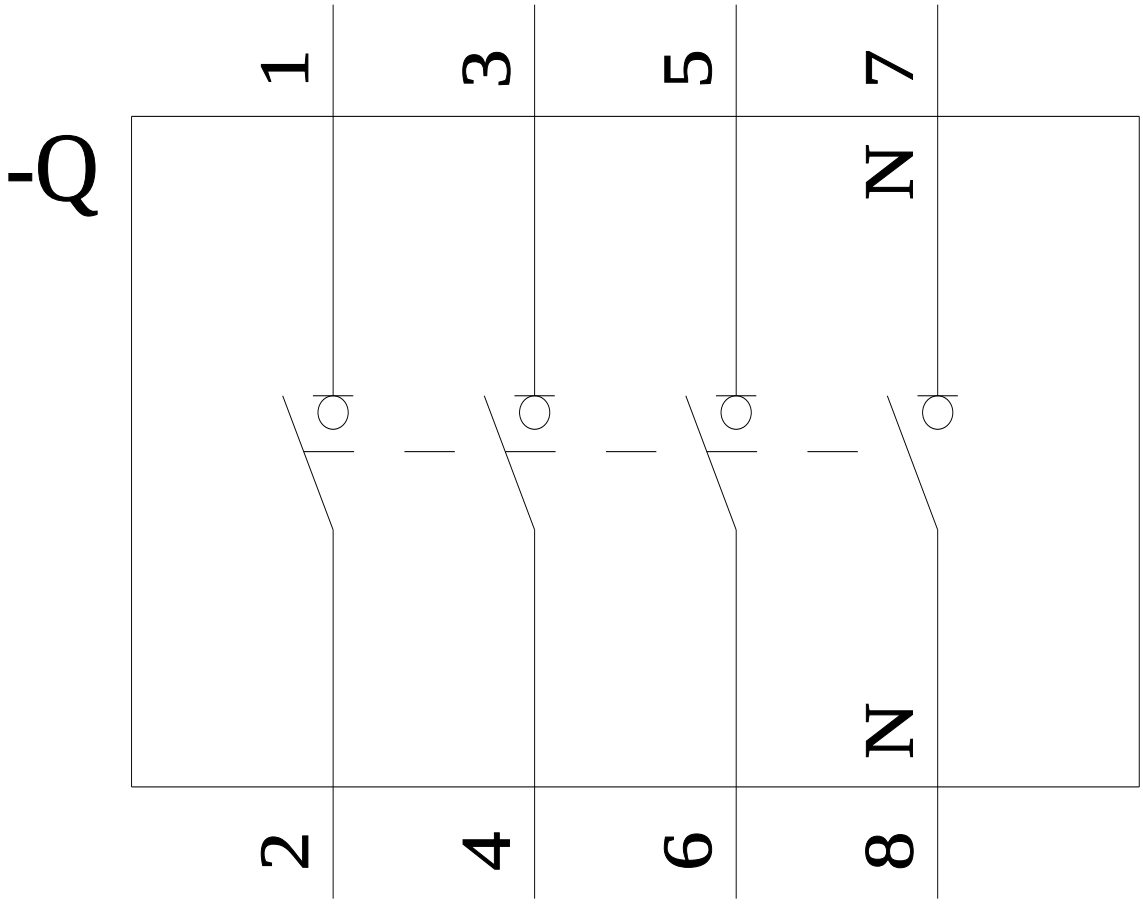
Environment				
Environmental Con-firmations				

Further information

Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information for data generation and storage
https://support.industry.siemens.com/cs/ww/en/view/109995012
Information- and Downloadcenter (Catalogs, Brochures,…)
https://www.siemens.com/lowvoltage/catalogs
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA1116-1AA46-0AA0
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3VA1116-1AA46-0AA0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1116-1AA46-0AA0
CAx-Online-Generator
https://www.siemens.com/cax
Tender specifications
https://www.siemens.com/specifications
Kennlinien
https://curves.simaris.siemens.com/curves/3VA1116-1AA46-0AA0

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