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Data sheet 3VA1116-1AA32-0AA0

Siemens EcoTech



switch disconnector 3VA1 IEC frame 160 3-pole SD100, In=160A without overload protection w/o short-circuit protection nut keeper kit

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	3
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	500 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	859 g
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	76.2 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	busbar 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 Approval	EMV	Test Certificates

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CE EG-Konf.	UKCA	RCM	Miscellaneous	Special Test Certificate	Type Test Certificates/Test Report

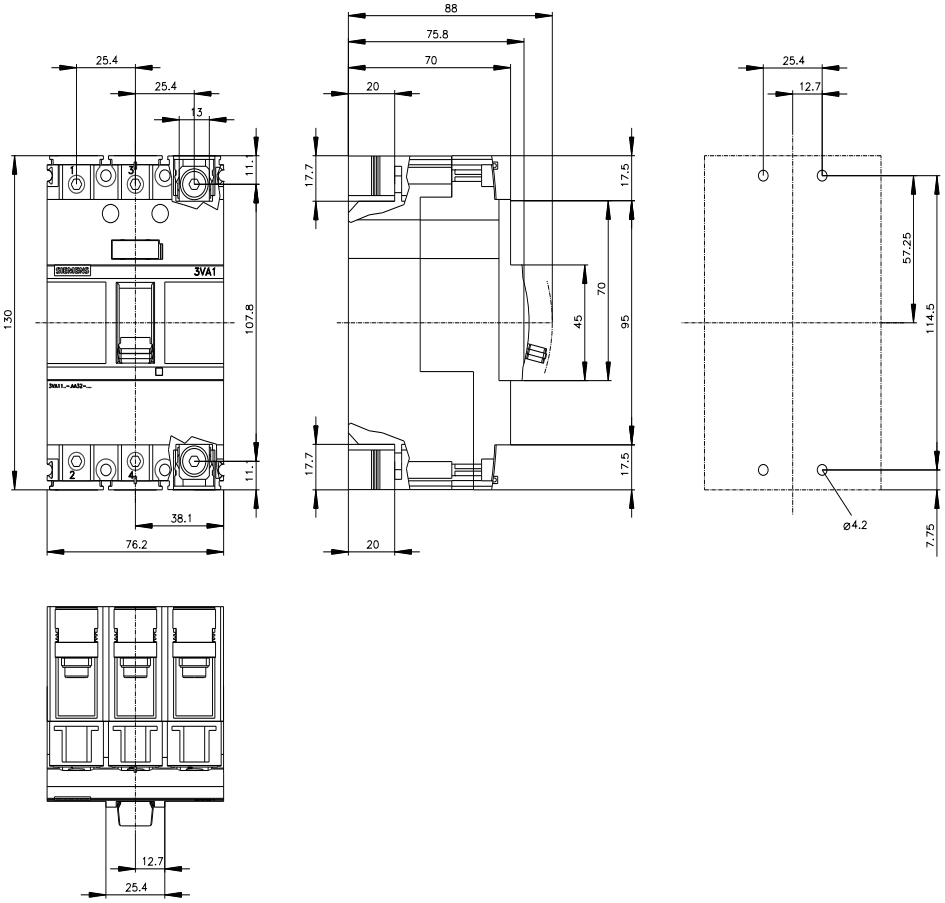
Maritime application				other	
ABS	DNV	LRS	CCS (China Classification Society)	Miscellaneous	Confirmation

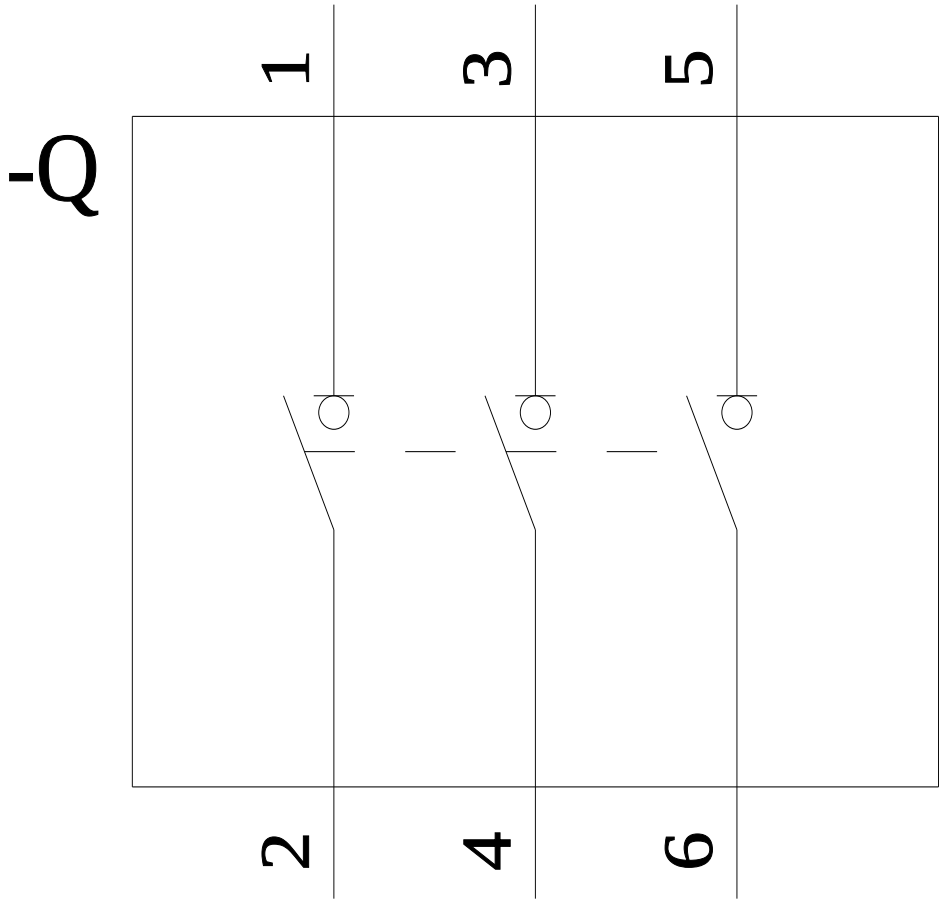
other	Environment				
产品合格 QC PASS	Environmental Confirmations	Environmental Confirmations	EPD	EPD	Siemens EcoTech

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=3VA1116-1AA32-0AA0
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3VA1116-1AA32-0AA0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1116-1AA32-0AA0
CAx-Online-Generator
https://www.siemens.com/cax
Tender specifications
https://www.siemens.com/specifications
Kennlinien
https://curves.simaris.siemens.com/curves/3VA1116-1AA32-0AA0

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