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Data sheet 3VA1112-4GE42-6AD0

1x circuit breaker: 3VA1112-4GE42-0AA0 1x RCD: 3VA9114-0RL21 1x auxiliary switch: 3VA9988-0AA12 1x rotary operator with shaft stub: 3VA9157-0GK00 1x extension shaft 300 mm 8x8 mm: 8UD1900-2WA00 1x adapter 8x8 mm: 8UD1900-2DA00 1x handle with masking plate: 8UD1721-0AB21 2x bus connectors front 4-pole: 3VA9154-0QB00 2x extended terminal covers 4-pole: 3VA9111-0WF40 3x 3kV cables with 6 mm2 l = 2 m 3x ring cable lugs M6, 6 mm2

Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
design of the product	Line protection
design of the overcurrent release	TM220
protection function of the overcurrent release	LI
number of poles	4
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
power loss [W] / maximum	33.3 W
mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	9 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	6 300
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No
product function	
● communication function	No
● other measurement function	No
Net Weight	4.04 kg
Current	
operational current	
● at 40 °C	118 A
● at 45 °C	115 A
● at 50 °C	113 A
● at 55 °C	110 A
● at 60 °C	108 A
● at 65 °C	105 A
● at 70 °C	103 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	S
maximum short-circuit current breaking capacity (Icu)	
● at 240 V	55 kA
● at 415 V	36 kA
● at 440 V	25 kA
● at 500 V	7 kA
● at 690 V	7 kA
operating short-circuit current breaking capacity (Ics)	
● at 240 V	55 kA

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● at 415 V	36 kA
● at 440 V	25 kA
● at 500 V	5 kA
● at 690 V	5 kA
short-circuit current making capacity (Icm)	
● at 240 V	121 kA
● at 415 V	75.6 kA
● at 440 V	52.5 kA
● at 500 V	11.9 kA
● at 690 V	11.9 kA
Adjustable parameters	
product feature / for L-tripping / can be switched on/off	No
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
● minimum	87 A
● maximum	125 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
● minimum	1 s
● maximum	1 s
adjustable response value setting current (Ii) / for I-tripping	
● minimum	1 250 A
● maximum	1 250 A
adjustable setting current (InN) / for N-tripping	
● minimum	125 A
● maximum	125 A
design of the N-conductor protection	100%
product function / grounding protection	No
Mechanical Design	
product component	
● undervoltage release	No
● voltage trigger	No
● trip indicator	No
height [in]	13.18 in
height	334 mm
width [in]	4 in
width	101.6 mm
depth [in]	21.26 in
depth	540 mm
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
Accessories	
product extension / optional / motor drive	No
manufacturer's article number	
● of the supplied basic switch	3VA1112-4GE42-0AA0
● of the integrated auxiliary switch/alarm switch	3VA9988-0AA12
Environmental conditions	
protection class IP / on the front	IP40
ambient temperature	
● during operation / minimum	-25 °C
● during operation / maximum	70 °C
● during storage / minimum	-25 °C
● during storage / maximum	80 °C
reference code / according to IEC 81346-2	Q

Approvals / Certificates

General Product Approval		EMV	Test Certificates		
Miscellaneous	EAC	RCM	Type Test Certificates/Test Report	Special Test Certificate	Miscellaneous

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Maritime application		other			
		CCS (China Classification Society)	Confirmation		Miscellaneous

Environment

Environmental Confirmations	Environmental Confirmations

Further information

Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/lowvoltage/catalogs
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA1112-4GE42-6AD0
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3VA1112-4GE42-6AD0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1112-4GE42-6AD0
CAx-Online-Generator
http://www.siemens.com/cax
Tender specifications
http://www.siemens.com/specifications

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