## SIEMENS

## Data sheet

## 3VA1125-6EE42-0AA0



circuit breaker 3VA1 IEC frame 160 breaking capacity class H Icu=70kA @ 415V 4-pole, line protection TM220, ATFM, In=25A overload protection Ir=18A...25A short-circuit protection Ii=12.8 x In N conductor unprotected nut keeper kit

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	8.5 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	
ground-fault monitoring version	Without	
product function		
communication function	No	
<ul> <li>other measurement function</li> </ul>	No	
Net Weight	1.222 kg	
Current		
operational current		
● at 40 °C	25 A	
• at 45 °C	25 A	
● at 50 °C	25 A	
• at 55 °C	24 A	
• at 60 °C	24 A	
• at 65 °C	23 A	
• at 70 °C	23 A	
Switching capacity according to IEC 60947		
switching capacity class of the circuit breaker	Н	
maximum short-circuit current breaking capacity (Icu)		
• at 240 V	100 kA	
• at 415 V	70 kA	
• at 440 V	55 kA	
• at 500 V	10 kA	
• at 690 V	10 kA	
operating short-circuit current breaking capacity (lcs)		

• at 240 V	100 kA
● at 415 V	70 kA
• at 440 V	40 kA
• at 500 V	5 kA
• at 690 V	5 kA
short-circuit current making capacity (Icm)	
• at 240 V	220 kA
• at 415 V	154 kA
• at 440 V	121 kA
● at 500 V	17 kA
• at 690 V	17 kA
design of short-circuit protection	For switching power values in DC networks, see the 3VA molded case circuit breaker device manual; link to be found under Service & Support in the last chapter
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	18 A
• maximum	25 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	1s
• maximum	1 s
adjustable response value setting current (li) / for I-tripping	
• minimum	320 A
• maximum	320 A
adjustable setting current (InN) / for N-tripping	
• minimum	0 A
maximum	0 A
design of the N-conductor protection	without
product function / grounding protection	No
Mechanical Design	
product component	
<ul> <li>undervoltage release</li> </ul>	No
voltage trigger	No
trip indicator	No
height [in]	5.12 in
height	130 mm
width [in]	4 in
width	101.6 mm
depth [in]	2.76 in
depth	70 mm
Connections	
arrangement of electrical connectors / for main current circuit	Front terminal
type of electrical connection / for main current circuit	nut keeper kit on both ends
type of connectable conductor cross-sections / for flat-bar terminal connection / minimum	12 x 1 mm
type of connectable conductor cross-sections / for flat-bar terminal connection / maximum	17 x 6,5 mm
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) $% \left( 1, 2, 2, 3, 6 \right)$	Tin
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
Accessories	
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

<ul> <li>during storage / mir</li> </ul>	nimum		-40 °C			
during storage / maximum		80 °C				
Environmental footprint						
Environmental Product De	eclaration(EPD)		Yes			
Global Warming Potential [CO2 eq] / total		190 kg				
Global Warming Potential [CO2 eq] / during manufacturing		4.67 kg				
Global Warming Potential [CO2 eq] / during operation		186 kg				
global warming potential [	global warming potential [CO2 eq] / after end of life		-0.826 kg			
reference code / accordin	g to IEC 81346-2		Q			
Approvals / Certificates						
General Product Approv	val					EMC
<u>Confirmation</u>		VDE	•	<u>Miscellaneous</u>	EHC	RCM
Declaration of Conform	ity	Test Certificate	es			Marine / Shipping
UK CA	C E EG-Konf.	<u>Type Test Cert</u> ates/Test Rep		<u>Special Test Certific-</u> <u>ate</u>	<u>Miscellaneous</u>	ABS
Marine / Shipping						other
BUREAU VERITAS		Lloyd's Register urs		KMRS RMRS	<u>CCS / China Classific-</u> <u>ation Society</u>	<u>Confirmation</u>
other		Environment				
Miscellaneous	Miscellaneous	Environmental ( <u>firmations</u>				

## Further information

Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). 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=3VA1125-6EE42-0AA0

- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
- https://support.industry.siemens.com/cs/ww/en/ps/3VA1125-6EE42-0AA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

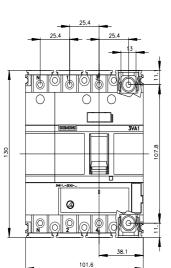
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA1125-6EE42-0AA0

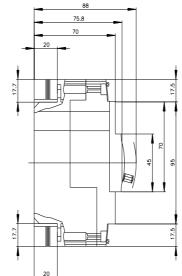
CAx-Online-Generator

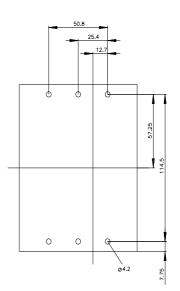
http://www.siemens.com/cax

Tender specifications

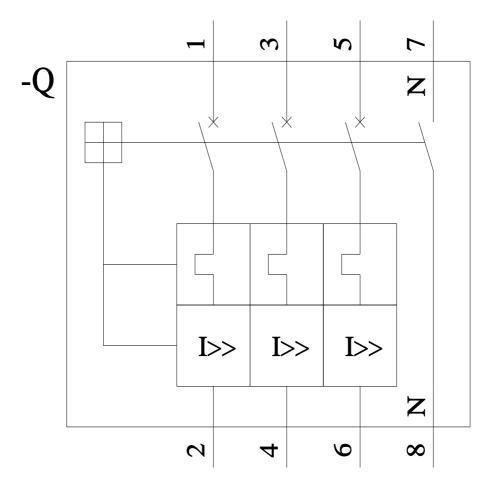
http://www.siemens.com/specifications







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