## SIEMENS

## Data sheet

## 3VM1112-3GE42-0AA0



circuit breaker 3VM1 IEC frame 160 breaking capacity class N Icu=25kA @ 415V 4-pole, line protection TM220, ATFM, In=125A overload protection Ir=88A...125A short-circuit protection Ii=10 x In N conductor protection 100% 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 AC / at 50/60 Hz / rated value	500 V
operating voltage / at DC / rated value	500 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	23 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	7.73 W
mechanical service life (operating cycles) / typical	15 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	6 000
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No
ground-fault monitoring version	Without
product function	
<ul> <li>communication function</li> </ul>	No
<ul> <li>other measurement function</li> </ul>	No
Net Weight	1.29 kg
Current	
operational current	
• at 40 °C	125 A
• at 45 °C	125 A
● at 50 °C	125 A
• at 55 °C	122 A
• at 60 °C	120 A
● at 65 °C	117 A
• at 70 °C	114 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	Ν
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	36 kA
• at 415 V	25 kA
• at 440 V	16 kA
• at 500 V	7 kA
operating short-circuit current breaking capacity (Ics)	

• at 240 V	27 kA
• at 415 V	18 kA
• at 440 V	12 kA
• at 500 V	5 kA
short-circuit current making capacity (Icm)	
• at 240 V	76 kA
• at 415 V	53 kA
• at 440 V	32 kA
• at 500 V	12 kA
design of short-circuit protection	For switching capacity values in DC power systems, see the 3VA Molded Case Circuit Breaker Manual; link available under Service & Support in the last chapter

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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 (li) / for I-tripping	
• minimum	1 250 A
• maximum	1 250 A
adjustable setting current (InN) / for N-tripping	
• minimum	125 A
• maximum	125 A
adjustable current response value current / of instantaneous short-circuit trip unit	
• maximum	1 250 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]	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 connection
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) $% \left( 1,1,2,1,3,1,3,1,3,1,1,1,1,1,1,1,1,1,1,1,$	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	No
Environmental conditions	
protection class IP / on the front	IP40
ambient temperature	
during operation / minimum	-25 °C

<ul> <li>during operation</li> </ul>		70 °C		
<ul> <li>during storage / r</li> </ul>		-40 °		
<ul> <li>during storage / r</li> </ul>		80 °C	2	
Approvals / Certificates	1			
General Product App	roval			
UK CA	CCC	<u>Confirmation</u>	CE EG-Konf.	<u>Miscellaneous</u>
General Product Approval	Test Certificates	Marine / Shipping		
EHC	<u>Miscellaneous</u>	ABS	BUREAU VERITAS	Lloyd's Register us
Marine / Shipping	other		Environment	
RMRS RMRS	<u>Miscellaneous</u>	<u>Confirmation</u>	Environmental Con- firmations	

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

atalogs http://www.siemens.com/lowvoltage/

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VM1112-3GE42-0AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3VM1112-3GE42-0AA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VM1112-3GE42-0AA0

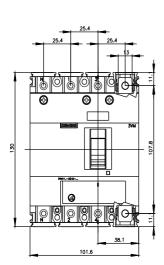
http://www.automation.siemens

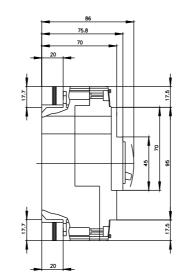
CAx-Online-Generator

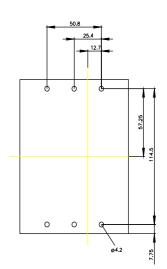
http://www.siemens.com/cax

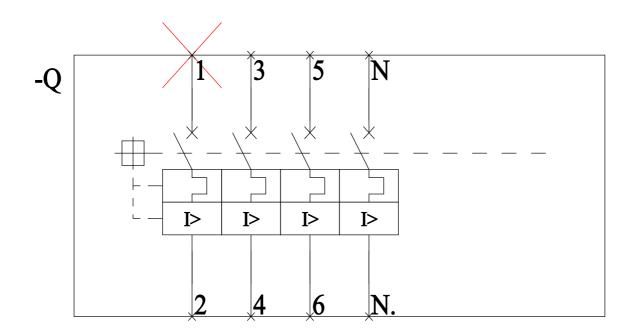
**Tender specifications** 

http://www.siemens.com/specifications







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