## SIEMENS

## Data sheet

## 3VA1112-4GE46-0AA0



circuit breaker 3VA1 IEC frame 160 breaking capacity class S Icu=36kA @ 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% clamp connection

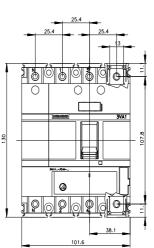
SENTRON
Molded case circuit breaker
Line protection
TM220
LI
4
800 V
600 V
690 V
28.1 W
20 000
9 000
6 300
No
Without
No
No
1.17 kg
125 A
125 A
125 A
122 A
120 A
117 A
114 A
S
55 kA
36 kA
25 kA
7 kA

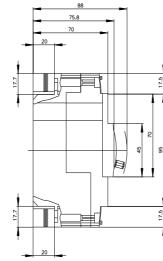
• at 240 V	55 kA
• at 415 V	36 kA
• at 440 V	25 kA
● at 500 V	5 kA
• at 690 V	5 kA
short-circuit current making capacity (Icm)	
• at 240 V	121 kA
● at 415 V	75.6 kA
● at 440 V	52.5 kA
● at 500 V	11.9 kA
• at 690 V	11.9 kA
design of short-circuit protection	For switching power values in DC networks, see 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	88 A
• maximum	125 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	1s
maximum	1s
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
design of the N-conductor protection	100%
product function / grounding protection	No
Mechanical Design	
Mechanical Design product component	
Mechanical Design product component • undervoltage release	No
Mechanical Design product component • undervoltage release • voltage trigger	No
Mechanical Design product component • undervoltage release • voltage trigger • trip indicator	No No
Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in]	No No 5.12 in
Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height	No No 5.12 in 130 mm
Mechanical Design         product component         • undervoltage release         • voltage trigger         • trip indicator         height [in]         height         width [in]	No No 5.12 in 130 mm 4 in
Mechanical Design         product component         • undervoltage release         • voltage trigger         • trip indicator         height [in]         height         width [in]         type of connectable conductor cross-sections / of the round conductor terminal / stranded	No No 5.12 in 130 mm 4 in 1 x (1,5 - 70 mm <sup>2</sup> )
Mechanical Design         product component         • undervoltage release         • voltage trigger         • trip indicator         height [in]         height         width [in]         type of connectable conductor cross-sections / of the round conductor terminal / stranded         width	No No 5.12 in 130 mm 4 in 1 x (1,5 - 70 mm <sup>2</sup> ) 101.6 mm
Mechanical Design         product component         • undervoltage release         • voltage trigger         • trip indicator         height [in]         height         width [in]         type of connectable conductor cross-sections / of the round conductor terminal / stranded         width         depth [in]	No No 5.12 in 130 mm 4 in 1 x (1,5 - 70 mm <sup>2</sup> ) 101.6 mm 2.76 in
Mechanical Design         product component         • undervoltage release         • voltage trigger         • trip indicator         height [in]         height         width [in]         type of connectable conductor cross-sections / of the round conductor terminal / stranded         width         depth [in]         depth	No No 5.12 in 130 mm 4 in 1 x (1,5 - 70 mm <sup>2</sup> ) 101.6 mm
Mechanical Design         product component         • undervoltage release         • voltage trigger         • trip indicator         height [in]         height         width [in]         type of connectable conductor cross-sections / of the round conductor terminal / stranded         width         depth [in]         depth         Connections	No No 5.12 in 130 mm 4 in 1 x (1,5 - 70 mm <sup>2</sup> ) 101.6 mm 2.76 in 70 mm
Mechanical Design         product component         • undervoltage release         • voltage trigger         • trip indicator         height [in]         height         width [in]         type of connectable conductor cross-sections / of the round conductor terminal / stranded         width         depth         Connections         arrangement of electrical connectors / for main current circuit	No         S.12 in         130 mm         4 in         1 x (1,5 - 70 mm²)         101.6 mm         2.76 in         70 mm         Front terminal
Mechanical Design         product component         • undervoltage release         • voltage trigger         • trip indicator         height [in]         height         width [in]         type of connectable conductor cross-sections / of the round conductor terminal / stranded         width         depth [in]         depth         Connections         arrangement of electrical connectors / for main current circuit         type of electrical connection / for main current circuit         type of the surface / of the connections / on the top of the	No No 5.12 in 130 mm 4 in 1 x (1,5 - 70 mm <sup>2</sup> ) 101.6 mm 2.76 in 70 mm
Mechanical Design         product component         • undervoltage release         • voltage trigger         • trip indicator         height [in]         height         width [in]         type of connectable conductor cross-sections / of the round conductor terminal / stranded         width         depth [in]         depth         Connections         arrangement of electrical connectors / for main current circuit         type of electrical connection / for main current circuit	No         S.12 in         130 mm         4 in         1 x (1,5 - 70 mm²)         101.6 mm         2.76 in         70 mm         Front terminal         box terminal on both sides
Mechanical Design         product component         • undervoltage release         • voltage trigger         • trip indicator         height [in]         height         width [in]         type of connectable conductor cross-sections / of the round conductor terminal / stranded         width         depth [in]         depth         Connections         arrangement of electrical connectors / for main current circuit         type of electrical connection / for main current circuit         design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)         design of the surface / of the connections / on the bottom of the	No         5.12 in         130 mm         4 in         1 x (1,5 - 70 mm²)         101.6 mm         2.76 in         70 mm         Front terminal         box terminal on both sides         Silver
Mechanical Design         product component         • undervoltage release         • voltage trigger         • trip indicator         height [in]         height         width [in]         type of connectable conductor cross-sections / of the round conductor terminal / stranded         width         depth [in]         depth         Connections         arrangement of electrical connectors / for main current circuit         type of electrical connection / for main current circuit         design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)         design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)	No         5.12 in         130 mm         4 in         1 x (1,5 - 70 mm²)         101.6 mm         2.76 in         70 mm         Front terminal         box terminal on both sides         Silver
Mechanical Design         product component         • undervoltage release         • voltage trigger         • trip indicator         height [in]         height         width [in]         type of connectable conductor cross-sections / of the round conductor terminal / stranded         width         depth [in]         depth         Connections         arrangement of electrical connectors / for main current circuit         type of electrical connection / for main current circuit         type of the surface / of the connections / on the top of the switch (N, 1, 3, 5)         design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)         Auxiliary circuit	No         S.12 in         130 mm         4 in         1 x (1,5 - 70 mm²)         101.6 mm         2.76 in         70 mm         Front terminal         box terminal on both sides         Silver         Tin
Mechanical Design         product component         • undervoltage release         • voltage trigger         • trip indicator         height [in]         height         width [in]         type of connectable conductor cross-sections / of the round conductor terminal / stranded         width         depth [in]         depth         Connections         arrangement of electrical connectors / for main current circuit         type of electrical connection / for main current circuit         type of the surface / of the connections / on the top of the switch (N, 1, 3, 5)         design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)         Auxiliary circuit         number of CO contacts / for auxiliary contacts	No         S.12 in         130 mm         4 in         1 x (1,5 - 70 mm²)         101.6 mm         2.76 in         70 mm         Front terminal         box terminal on both sides         Silver         Tin
Mechanical Design         product component         • undervoltage release         • voltage trigger         • trip indicator         height [in]         height         width [in]         type of connectable conductor cross-sections / of the round conductor terminal / stranded         width         depth [in]         depth         Connections         arrangement of electrical connectors / for main current circuit         type of electrical connection / for main current circuit         design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)         design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)         Auxiliary circuit         number of CO contacts / for auxiliary contacts         Accessories	No         5.12 in         130 mm         4 in         1 x (1,5 - 70 mm²)         101.6 mm         2.76 in         70 mm         Front terminal         box terminal on both sides         Silver         Tin         0
Mechanical Design         product component         • undervoltage release         • voltage trigger         • trip indicator         height [in]         height         width [in]         type of connectable conductor cross-sections / of the round conductor terminal / stranded         width         depth [in]         depth         Connections         arrangement of electrical connectors / for main current circuit         type of electrical connection / for main current circuit         design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)         design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)         Auxiliary circuit         number of CO contacts / for auxiliary contacts         Accessories         product extension / optional / motor drive	No         5.12 in         130 mm         4 in         1 x (1,5 - 70 mm²)         101.6 mm         2.76 in         70 mm         Front terminal         box terminal on both sides         Silver         Tin         0
Mechanical Design         product component         • undervoltage release         • voltage trigger         • trip indicator         height [in]         height         width [in]         type of connectable conductor cross-sections / of the round conductor terminal / stranded         width         depth [in]         depth         Connections         arrangement of electrical connectors / for main current circuit         type of electrical connection / for main current circuit         type of electrical connections / on the top of the switch (N, 1, 3, 5)         design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)         Auxiliary circuit         number of CO contacts / for auxiliary contacts         Accessories         product extension / optional / motor drive         Environmental conditions	No         5.12 in         130 mm         4 in         1 x (1,5 - 70 mm²)         101.6 mm         2.76 in         70 mm         Front terminal         box terminal on both sides         Silver         Tin         0         Yes
Mechanical Design         product component         • undervoltage release         • voltage trigger         • trip indicator         height [in]         height         width [in]         type of connectable conductor cross-sections / of the round conductor terminal / stranded         width         depth [in]         depth         Connections         arrangement of electrical connectors / for main current circuit         type of electrical connection / for main current circuit         type of electrical connections / on the top of the switch (N, 1, 3, 5)         design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)         Auxiliary circuit         number of CO contacts / for auxiliary contacts         Accessories         product extension / optional / motor drive         Environmental conditions         protection class IP / on the front	No         5.12 in         130 mm         4 in         1 x (1,5 - 70 mm²)         101.6 mm         2.76 in         70 mm         Front terminal         box terminal on both sides         Silver         Tin         0         Yes
Mechanical Design         product component         • undervoltage release         • voltage trigger         • trip indicator         height [in]         height         width [in]         type of connectable conductor cross-sections / of the round conductor terminal / stranded         width         depth [in]         depth         Connections         arrangement of electrical connectors / for main current circuit         type of electrical connection / for main current circuit         design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)         design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)         Auxiliary circuit         number of CO contacts / for auxiliary contacts         Accessories         product extension / optional / motor drive         Environmental conditions         protection class IP / on the front         ambient temperature	No         5.12 in         130 mm         4 in         1 x (1,5 - 70 mm²)         101.6 mm         2.76 in         70 mm         Front terminal         box terminal on both sides         Silver         Tin         Ves         IP40
Mechanical Design         product component         • undervoltage release         • voltage trigger         • trip indicator         height [in]         height         width [in]         type of connectable conductor cross-sections / of the round conductor terminal / stranded         width         depth [in]         depth [in]         depth         Connections         arrangement of electrical connectors / for main current circuit         type of electrical connections / on the top of the switch (N, 1, 3, 5)         design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)         Auxiliary circuit         number of CO contacts / for auxiliary contacts         Accessories         product extension / optional / motor drive         Environmental conditions         protection class IP / on the front         ambient temperature         • during operation / minimum	No         No         5.12 in         130 mm         4 in         1 x (1,5 - 70 mm²)         101.6 mm         2.76 in         70 mm         Front terminal         box terminal on both sides         Silver         Tin         Yes         IP40         -25 °C

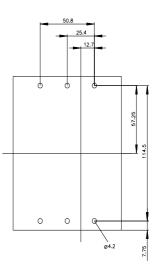
<ul> <li>during storage /</li> </ul>	maximum	80 °C	2		
Certificates					
reference code / accor	-	Q			
General Product App	proval				
CCC	Confirmation	VDE	<u>Miscellaneous</u>	KC	EHC
EMC	Declaration of Confo	rmity	Test Certificates		
RCM	UK CA	CE EG-Konf.	<u>Miscellaneous</u>	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report
Marine / Shipping					other
ABS	BUREAU VERITAS		RMRS	<u>CCS / China Classific-</u> ation Society	<u>Miscellaneous</u>
other		Environment			
Confirmation	<u>Miscellaneous</u>	Environmental Con- firmations			

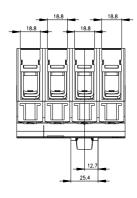
urther information
Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business
Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the 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=3VA1112-4GE46-0AA0
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3VA1112-4GE46-0AA0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1112-4GE46-0AA0
CAx-Online-Generator http://www.siemens.com/cax

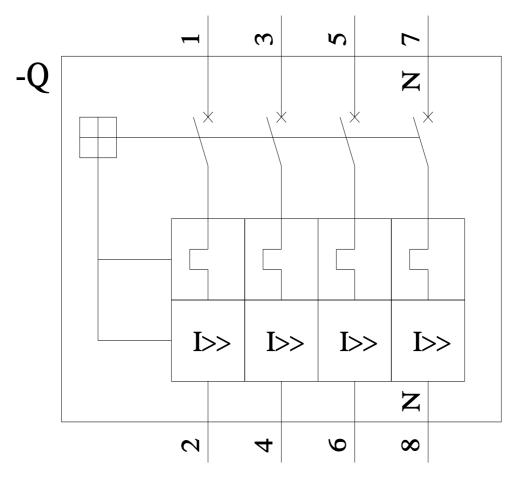
Tender specifications http://www.siemens.com/specifications











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