SIEMENS

Data sheet

3VA1110-4GF46-0AA0



circuit breaker 3VA1 IEC frame 160 breaking capacity class S Icu=36kA @ 415V 4-pole, line protection TM240, ATAM, In=100A overload protection Ir=70A...100A short-circuit protection Ii=5...10 x In N conductor protection 100% clamp connection

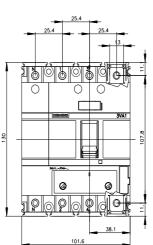
Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
design of the product	Line protection
design of the overcurrent release	TM240
protection function of the overcurrent release	LI
number of poles	4
General technical data	
insulation voltage / rated value	800 V
operating voltage / at DC / rated value	600 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	25 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
 other measurement function 	No
Net Weight	1.302 kg
Current	
operational current	
• at 40 °C	100 A
● at 45 °C	100 A
● at 50 °C	100 A
● at 55 °C	98 A
● at 60 °C	96 A
● at 65 °C	94 A
● at 70 °C	91 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)	

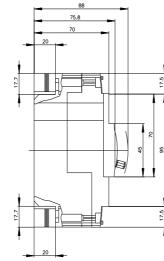
• at 240 V	55 kA
• at 415 V	36 kA
• at 440 V	25 kA
● at 500 V	5 kA
● at 690 V	5 kA
short-circuit current making capacity (Icm)	
• at 240 V	121 kA
• at 415 V	75.6 kA
• at 440 V	52.5 kA
• at 500 V	11.9 kA
• at 690 V	11.9 kA
design of short-circuit protection	For switching power values in DC networks, see 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	70 A
• maximum	100 A
adjustable response value delay time (tr) / for L-tripping / with l2t characteristic	
• minimum	1 s
• maximum	1 s
adjustable response value setting current (li) / for I-tripping	
• minimum	500 A
• maximum	1 000 A
adjustable setting current (InN) / for N-tripping	
• minimum	100 A
• maximum	100 A
design of the N-conductor protection	100%
product function / grounding protection	No
product function, grounding protocolon	
Mechanical Design	
Mechanical Design	No
Mechanical Design product component	
Mechanical Design product component • undervoltage release	No
Mechanical Design product component • undervoltage release • voltage trigger	No No
Mechanical Design product component • undervoltage release • voltage trigger • trip indicator	No No No
Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in]	No 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] type of connectable conductor cross-sections / of the round	No No S.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 ²)
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 ²) 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 ²) 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 ²) 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 Connections	No No 5.12 in 130 mm 4 in 1 x (1,5 - 70 mm ²) 101.6 mm 2.76 in 70 mm
Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height [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 No No 5.12 in 130 mm 4 in 1 x (1,5 - 70 mm²) 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 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 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
Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height [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 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 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
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	No 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
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 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
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	No 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
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 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 0
Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height [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 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 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 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 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 ambient temperature	No 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 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 Connections arrangement of electrical connectors / for main current circuit type of electrical connections / 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 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 Ves IP40 -25 °C

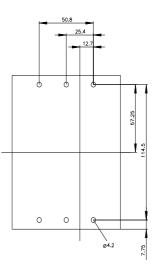
 during storage / r 	maximum	80 °C	;		
Certificates					
reference code / accord	ding to IEC 81346-2	Q			
General Product App	roval				
<u>Confirmation</u>			<u>Miscellaneous</u>	KC	EHC
EMC	Declaration of Confo	rmity	Test Certificates		
RCM	C C EG-Konf.	UK CA	Miscellaneous	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report
Marine / Shipping					other
ABS	BUREAU VERITAS		KMRS	<u>CCS / China Classific-</u> ation Society	<u>Confirmation</u>
other		Environment			
Miscellaneous	Miscellaneous	Environmental Con- firmations			

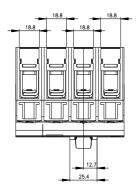
rther information
iemens has decided to exit the Russian market (see here).
ttps://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business
iemens is working on the renewal of the current EAC certificates.
lease contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an
AC relevant market (other than the sanctioned EAEU member states Russia or Belarus).
nformation on the packaging
ttps://support.industry.siemens.com/cs/ww/en/view/109813875
nformation- and Downloadcenter (Catalogs, Brochures,)
ttp://www.siemens.com/lowvoltage/catalogs
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nage database (product images, 2D dimension drawings, 3D models, device circuit diagrams,)
ttp://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1110-4GF46-0AA0
Ax-Online-Generator
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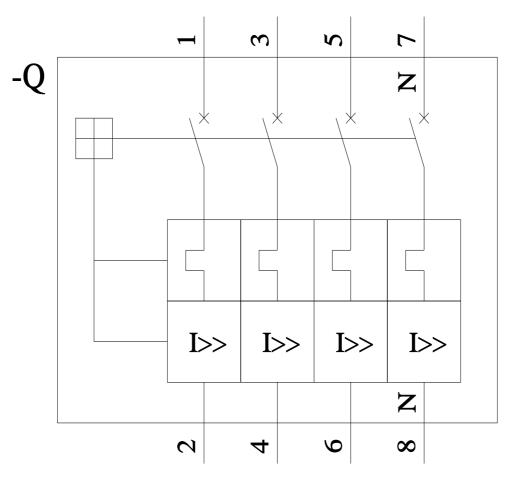
http://www.siemens.com/specifications











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