## SIEMENS

## Data sheet

## 3VA1110-4EE46-0AA0



circuit breaker 3VA1 IEC frame 160 breaking capacity class S Icu=36kA @ 415V 4-pole, line protection TM220, ATFM, In=100A overload protection Ir=70A...100A short-circuit protection Ii=10 x In N conductor unprotected clamp connection

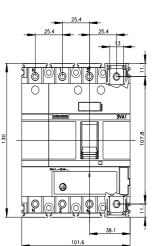
odel	SENTRON
product brand name	SENTRON
product designation	Molded case circuit breaker
design of the product	Line protection
design of the overcurrent release	TM220
protection function of the overcurrent release	
number of poles	4
eneral technical data	
insulation voltage / rated value	800 V
operating 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	
<ul> <li>communication function</li> </ul>	No
<ul> <li>other measurement function</li> </ul>	No
Net Weight	1.292 kg
urrent	
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
witching 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

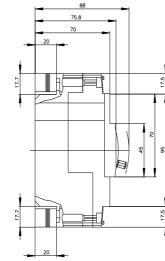
• at 240 V	55 kA
• at 415 V	36 kA
• at 440 V	25 kA
● at 500 V	5 kA
• at 690 V	5 kA
short-circuit current making capacity (Icm)	
• at 240 V	121 kA
● at 415 V	75.6 kA
• at 440 V	52.5 kA
• at 500 V	11.9 kA
• at 690 V	11.9 kA
design of short-circuit protection	For switching power values in DC networks, see 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 I2t characteristic	
• minimum	1 s
• maximum	1s
adjustable response value setting current (li) / for I-tripping	
• minimum	1 000 A
• maximum	1 000 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	
Mechanical Design product component	
	No
product component	No
product component <ul> <li>undervoltage release</li> </ul>	
product component <ul> <li>undervoltage release</li> <li>voltage trigger</li> </ul>	No
product component <ul> <li>undervoltage release</li> <li>voltage trigger</li> <li>trip indicator</li> </ul>	No No
product component • undervoltage release • voltage trigger • trip indicator height [in]	No No 5.12 in
product component • undervoltage release • voltage trigger • trip indicator height [in] height	No No 5.12 in 130 mm
product component  • undervoltage release  • voltage trigger  • trip indicator  height [in]  height width [in] type of connectable conductor cross-sections / of the round	No No 5.12 in 130 mm 4 in
product component	No No 5.12 in 130 mm 4 in 1 x (1,5 - 70 mm <sup>2</sup> )
product component	No No 5.12 in 130 mm 4 in 1 x (1,5 - 70 mm <sup>2</sup> ) 101.6 mm
product component	No No 5.12 in 130 mm 4 in 1 x (1,5 - 70 mm <sup>2</sup> ) 101.6 mm 2.76 in
product component	No No 5.12 in 130 mm 4 in 1 x (1,5 - 70 mm <sup>2</sup> ) 101.6 mm 2.76 in
product component	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
product component	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
product component	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
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	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
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         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
product component	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
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	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
product component	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
product component	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
product component	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         0         Yes
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	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         0         Yes
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
product component	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

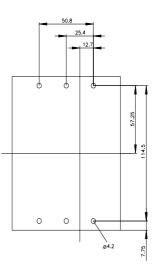
<ul> <li>during storage / r</li> </ul>	naximum	80 °C	;		
Certificates					
reference code / accord		Q			
General Product Approval					
	<u>Confirmation</u>		<u>Miscellaneous</u>	KC	EHC
EMC	Declaration of Conform	mity	Test Certificates		
RCM	UK CA	CE EG-Konf.	Miscellaneous	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>
Marine / Shipping					other
ABS	BUREAU VERITAS		RMRS	<u>CCS / China Classific-</u> ation Society	<u>Miscellaneous</u>
other		Environment			
<u>Confirmation</u>	<u>Miscellaneous</u>	Environmental Con- firmations			

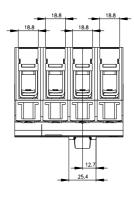
ther information	
iemens has decided to exit the Russian market (see here). tps://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business	
iemens is working on the renewal of the current EAC certificates. lease contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer a AC relevant market (other than the sanctioned EAEU member states Russia or Belarus).	to supply these products to an
formation on the packaging tps://support.industry.siemens.com/cs/ww/en/view/109813875	
formation- and Downloadcenter (Catalogs, Brochures,) tp://www.siemens.com/lowvoltage/catalogs	
dustry Mall (Online ordering system) tps://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA1110-4EE46-0AA0	
ervice&Support (Manuals, Certificates, Characteristics, FAQs,) tps://support.industry.siemens.com/cs/ww/en/ps/3VA1110-4EE46-0AA0	
nage database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) tp://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1110-4EE46-0AA0	
Ax-Online-Generator tp://www.siemens.com/cax	
ender specifications	

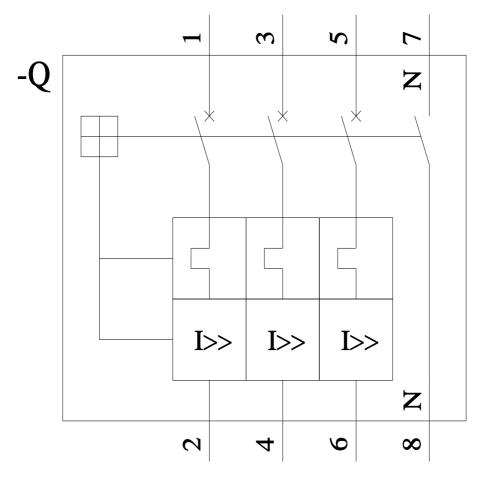
Tender specifications http://www.siemens.com/specifications











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