SIEMENS

Data sheet

3VA1125-4EE46-0AA0



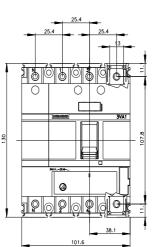
circuit breaker 3VA1 IEC frame 160 breaking capacity class S Icu=36kA @ 415V 4-pole, line protection TM220, ATFM, In=25A overload protection Ir=18A...25A short-circuit protection Ii=12.8 x In N conductor unprotected clamp connection

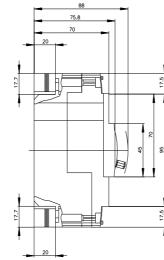
Model			
product brand name	SENTRON		
product designation	Molded case circuit breaker		
design of the product	Line protection		
design of the overcurrent release	TM220		
protection function of the overcurrent release	LI		
number of poles	4		
General technical data			
insulation voltage / rated value	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		
 other measurement function 	No		
Net Weight	1.305 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	S		
maximum short-circuit current breaking capacity (lcu)			
• 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 (lcs)			

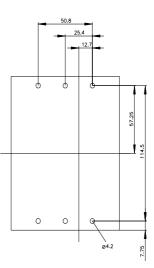
-+ 040 \/	
• at 240 V	55 kA
• at 415 V	36 kA
• at 440 V	25 kA
● at 500 V	5 kA
● at 690 V	5 kA
short-circuit current making capacity (Icm)	
• at 240 V	121 kA
• at 415 V	75.6 kA
• at 440 V	52.5 kA
● at 500 V	11.9 kA
• at 690 V	11.9 kA
design of short-circuit protection	For switching power values in DC 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	18 A
• maximum	25 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	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	
 undervoltage release 	No
voltage trigger	No
trip indicator	No
height [in]	5.12 in
height	130 mm
width [ip]	
width [in]	4 in
type of connectable conductor cross-sections / of the round conductor terminal / stranded	1 x (1,5 - 70 mm²)
type of connectable conductor cross-sections / of the round conductor terminal / stranded width	1 x (1,5 - 70 mm²) 101.6 mm
type of connectable conductor cross-sections / of the round conductor terminal / stranded width depth [in]	1 x (1,5 - 70 mm²) 101.6 mm 2.76 in
type of connectable conductor cross-sections / of the round conductor terminal / stranded width depth [in] depth	1 x (1,5 - 70 mm²) 101.6 mm
type of connectable conductor cross-sections / of the round conductor terminal / stranded width depth [in] depth Connections	1 x (1,5 - 70 mm²) 101.6 mm 2.76 in 70 mm
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	1 x (1,5 - 70 mm²) 101.6 mm 2.76 in 70 mm Front terminal
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	1 x (1,5 - 70 mm²) 101.6 mm 2.76 in 70 mm Front terminal box terminal on both sides
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)	1 x (1,5 - 70 mm²) 101.6 mm 2.76 in 70 mm Front terminal box terminal on both sides Silver
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)	1 x (1,5 - 70 mm²) 101.6 mm 2.76 in 70 mm Front terminal box terminal on both sides
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	1 x (1,5 - 70 mm²) 101.6 mm 2.76 in 70 mm Front terminal box terminal on both sides Silver Tin
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	1 x (1,5 - 70 mm²) 101.6 mm 2.76 in 70 mm Front terminal box terminal on both sides Silver
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	1 x (1,5 - 70 mm²) 101.6 mm 2.76 in 70 mm Front terminal box terminal on both sides Silver Tin 0
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	1 x (1,5 - 70 mm²) 101.6 mm 2.76 in 70 mm Front terminal box terminal on both sides Silver Tin
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	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
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	1 x (1,5 - 70 mm²) 101.6 mm 2.76 in 70 mm Front terminal box terminal on both sides Silver Tin 0
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	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 IP40
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	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 IP40 -25 °C
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 • during operation / minimum • during operation / maximum	1 x (1,5 - 70 mm ²) 101.6 mm 2.76 in 70 mm Front terminal box terminal on both sides Silver Tin 0 Yes IP40 -25 °C 70 °C
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 • during operation / minimum	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 IP40 -25 °C

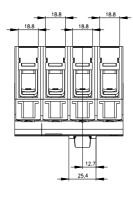
during storage / maximum		80 °C	80 °C		
Certificates					
reference code / according to IEC 81346-2		Q			
General Product App	roval				
<u>Confirmation</u>			<u>Miscellaneous</u>	KC	EHC
EMC	Declaration of Confo	rmity	Test Certificates		
RCM	C C EG-Konf.	UK CA	<u>Miscellaneous</u>	Special Test Certific- ate	<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			
<u>Miscellaneous</u>	<u>Miscellaneous</u>	Environmental Con- firmations			

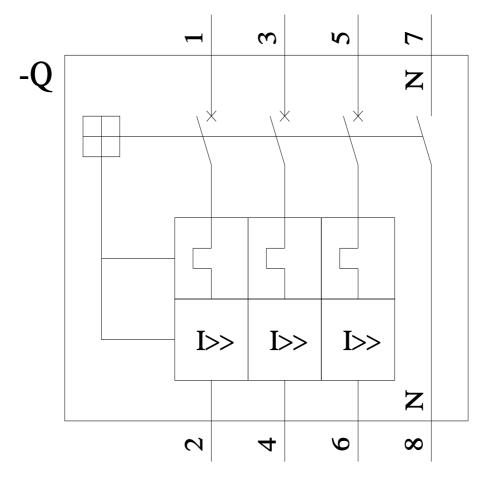
urther information	
	xit the Russian market (see here).
https://press.siemens.com/c	Ilobal/en/pressrelease/siemens-wind-down-russian-business
Siemens is working on the	e renewal of the current EAC certificates.
	emens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to a than the sanctioned EAEU member states Russia or Belarus).
Information on the package	jing
https://support.industry.siem	ens.com/cs/ww/en/view/109813875
Information- and Downloa	dcenter (Catalogs, Brochures,)
http://www.siemens.com/lov	vvoltage/catalogs
Industry Mall (Online orde	ring system)
https://mall.industry.siemens	s.com/mall/en/en/Catalog/product?mlfb=3VA1125-4EE46-0AA0
Service&Support (Manual	s, Certificates, Characteristics, FAQs,)
https://support.industry.siem	nens.com/cs/ww/en/ps/3VA1125-4EE46-0AA0
Image database (product i	images, 2D dimension drawings, 3D models, device circuit diagrams,)
http://www.automation.siem	ens.com/bilddb/cax_en.aspx?mlfb=3VA1125-4EE46-0AA0
CAx-Online-Generator	
http://www.siemens.com/ca	<u> </u>
Tender specifications	
http://www.siemens.com/sp	ecifications











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