SIEMENS

Data sheet

3VA1112-5EE36-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 3-POLE, LINE PROTECTION TM220, ATFM, IN=125A OVERLOAD PROTECTION IR=87,5A ...125A SHORT CIRCUIT PROTECTION II=10 X IN CABLE CONNECTION

Figure similar

product brand name Product designation Molded case circuit breaker Line protection Product variations General Applications Ground fault monitoring version Design of the auxiliary release Design of the auxiliary switch SENTRON Molded case circuit breaker Line protection General Applications Without Without Without Without		Model
Design of the product Line protection Product variations General Applications Ground fault monitoring version Without Design of the auxiliary release Without auxiliary release Design of the auxiliary switch Without	SENTRON	product brand name
Product variations General Applications Without Design of the auxiliary release Design of the auxiliary switch Without Without	Molded case circuit breaker	Product designation
Ground fault monitoring version Design of the auxiliary release Design of the auxiliary switch Without auxiliary release Without	Line protection	Design of the product
Design of the auxiliary release Design of the auxiliary switch Without auxiliary release Without	General Applications	Product variations
Design of the auxiliary switch Without	Without	Ground fault monitoring version
	Without auxiliary release	Design of the auxiliary release
	Without	Design of the auxiliary switch
Design of the operating mechanism toggle handle	toggle handle	Design of the operating mechanism
Type of the driving mechanism / motor drive No	No	Type of the driving mechanism / motor drive
Design of the overcurrent release TM220	TM220	Design of the overcurrent release

General technical data	
Number of poles	3
Trip class / of the L-trip / with I2t characteristic / initial value	1
Trip class / of the L-trip / with I2t characteristic / Full-scale value	1
Electrical endurance (switching cycles)	
• at AC-1 / at 380/415 V / at 50/60 Hz	8 000
circuit-breaker / Design	3VA
Mechanical service life (switching cycles) / typical	15 000

Voltage		
Insulation voltage / Rated value	V	800

Protection class

Protection class IP / on the front Protective function of the overcurrent release LI Switching capacity Switching capacity class of the circuit breaker M Dissipation Active power loss • maximum W 23.2 Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value / maximum • of the current-dependent overload release / • full-scale value • of the instantaneous short-circuit release / initial value • of the instantaneous short-circuit release / initial value • of the C / Rated value • at 50 °C / Rated value • at 50 °C / Rated value • at 50 °C / Rated value • at 60 °C / Rated value • a	Protection class IP		IP40
Switching capacity Switching capacity class of the circuit breaker Dissipation Active power loss • maximum W 23.2 Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value • of the current-dependent overload release / Full-scale value • of the instantaneous short-circuit release / initial value • of the instantaneous short-circuit release / initial value • of the instantaneous short-circuit release / initial value • of the Cyrrent / Rated value • of the Cyrrent / Rated value • of the Cyrrent / Rated value • of the Since / Rated value • of Poperating voltage • with AC / at 50/60 Hz / Rated value • of the Cyrrent / Rated value • at 40 °C / Rated value • at 50 °C / Rated value • at 50 °C / Rated value • at 65 °C / Rated value • at 70 °C / Rated value • at	Protection class IP / on the front	_	IP40
Switching capacity class of the circuit breaker Dissipation Active power loss	Protective function of the overcurrent release	_	Ц
Switching capacity class of the circuit breaker Dissipation	Switching capacity		
Active power loss • maximum Maximum W 23.2			M
Active power loss	Dissipation		
Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value Adjustable response value current • of the current-dependent overload release / Full-scale value • of the instantaneous short-circuit release / initial value Main circuit Operating voltage • with AC / at 50/60 Hz / Rated value • for DC / Rated value • at 40 °C / Rated value • at 40 °C / Rated value • at 55 °C / Rated value • at 60 °C / Rated value • at 60 °C / Rated value • at 65 °C / Rated value • at 60 °C / Rated value •	Active power loss		
Continuous current / Rated value / maximum	• maximum	W	23.2
Continuous current / Rated value Adjustable response value current of the current-dependent overload release / Full-scale value of the instantaneous short-circuit release / initial value Main circuit Operating voltage with AC / at 50/60 Hz / Rated value of or DC / Rated value v 500 Operating current at 40 °C / Rated value A 125 at 55 °C / Rated value at 65 °C / Rated value at 65 °C / Rated value at 65 °C / Rated value at 70 °C / Rated value A 117 Auxiliary circuit Number of CO contacts / for auxiliary contacts Oglustable parameters Adjustable parameters Adjustable response value current of r N-conductor protection / Full-scale value for N-conductor protection / Full-scale value of r N-conductor protection / Full-scale value of r N-conductor protection / Full-scale value of r N-conductor protection / Full-scale value of or N-conductor protection / Full-scale value	Electricity		
Adjustable response value current • of the current-dependent overload release / Full-scale value • of the instantaneous short-circuit release / initial value Main circuit Operating voltage • with AC / at 50/60 Hz / Rated value • for DC / Rated value • at 40 °C / Rated value • at 40 °C / Rated value • at 55 °C / Rated value • at 55 °C / Rated value • at 65 °C / Rated value • at 65 °C / Rated value • at 67 °C / Rated value • at 67 °C / Rated value • at 70 °C / Rated va	Continuous current / Rated value / maximum	Α	160
of the current-dependent overload release / Full-scale value of the instantaneous short-circuit release / initial value Main circuit Operating voltage with AC / at 50/60 Hz / Rated value of or DC / Rated value v 500 Operating current at 40 °C / Rated value at 55 °C / Rated value at 55 °C / Rated value at 65 °C / Rated value at 65 °C / Rated value at 65 °C / Rated value at 67 °C / Rated value at	Continuous current / Rated value	Α	125
Full-scale value • of the instantaneous short-circuit release / initial value Main circuit Operating voltage • with AC / at 50/60 Hz / Rated value • for DC / Rated value Operating current • at 40 °C / Rated value • at 50 °C / Rated value A 125 • at 50 °C / Rated value A 125 • at 50 °C / Rated value A 122 • at 60 °C / Rated value A 120 • at 60 °C / Rated value A 117 • at 70 °C / Rated value A 117 • at 70 °C / Rated value A 117 Auxiliary circuit Number of CO contacts / for auxiliary contacts O Suitability Suitability Suitable parameters Adjustable parameters Adjustable response value current • of I-trip / Full-scale value • for N-conductor protection / initial value • for N-conductor protection / Full-scale value • for N-conductor protection / Full-scale value • for N-conductor protection / Full-scale value A 0	Adjustable response value current		
Main circuit		Α	1
Operating voltage • with AC / at 50/60 Hz / Rated value • for DC / Rated value V 500 Operating current • at 40 °C / Rated value A 125 • at 50 °C / Rated value A 122 • at 60 °C / Rated value A 120 • at 60 °C / Rated value A 120 • at 65 °C / Rated value A 117 • at 70 °C / Rated value A 114 Auxiliary circuit Number of CO contacts / for auxiliary contacts O Suitability Suitability for use Adjustable parameters Adjustable response value current • of I-trip / Full-scale value • for N-conductor protection / Initial value • for N-conductor protection / Full-scale value		Α	10
with AC / at 50/60 Hz / Rated value for DC / Rated value v 500 Operating current at 40 °C / Rated value A 125 at 50 °C / Rated value A 125 at 55 °C / Rated value A 122 at 60 °C / Rated value A 120 at 65 °C / Rated value A 117 at 70 °C / Rated value A 114 Auxiliary circuit Number of CO contacts / for auxiliary contacts O Suitability Suitability for use Adjustable parameters Adjustable response value current of I-trip / Full-scale value for N-conductor protection / initial value for N-conductor protection / Full-scale value A 0	Main circuit		
for DC / Rated value Operating current at 40 °C / Rated value at 50 °C / Rated value at 55 °C / Rated value at 60 °C / Rated value at 65 °C / Rated value at 670 °C / Rated value at 65 °C / Rated value at 65 °C / Rated value at 65 °C / Rated value at 70 °C / Rated value A 117 Auxiliary circuit Number of CO contacts / for auxiliary contacts O Suitability Suitability for use Adjustable parameters Adjustable parameters Adjustable response value current of I-trip / Full-scale value for N-conductor protection / initial value for N-conductor protection / Full-scale value for N-conductor protection / Full-scale value o	Operating voltage		
Operating current • at 40 °C / Rated value • at 50 °C / Rated value • at 55 °C / Rated value • at 60 °C / Rated value • at 60 °C / Rated value • at 65 °C / Rated value • at 65 °C / Rated value • at 70 °C / Rated value A 117 • at 70 °C / Rated value A 114 Auxiliary circuit Number of CO contacts / for auxiliary contacts O Suitability Suitability for use Adjustable parameters Adjustable parameters Adjustable response value current • of I-trip / Full-scale value • for N-conductor protection / initial value • for N-conductor protection / Full-scale value	• with AC / at 50/60 Hz / Rated value	V	690
at 40 °C / Rated value at 50 °C / Rated value at 50 °C / Rated value at 60 °C / Rated value at 60 °C / Rated value at 65 °C / Rated value at 70 °C / Rated value A 117 at 70 °C / Rated value A 114 Auxiliary circuit Number of CO contacts / for auxiliary contacts Suitability Suitability for use Adjustable parameters Adjustable response value current of I-trip / Full-scale value for N-conductor protection / initial value for N-conductor protection / Full-scale value A 0	• for DC / Rated value	V	500
at 50 °C / Rated value at 55 °C / Rated value at 60 °C / Rated value at 60 °C / Rated value at 65 °C / Rated value at 65 °C / Rated value At 120 at 70 °C / Rated value At 117 at 70 °C / Rated value At 114 Auxiliary circuit Number of CO contacts / for auxiliary contacts Suitability Suitability Suitability for use Adjustable parameters Adjustable response value current of I-trip / Full-scale value for N-conductor protection / initial value for N-conductor protection / Full-scale value for N-conductor protection / Full-scale value At 0	Operating current		
at 55 °C / Rated value at 60 °C / Rated value at 65 °C / Rated value at 65 °C / Rated value A 120 at 65 °C / Rated value A 117 at 70 °C / Rated value A 114 Auxiliary circuit Number of CO contacts / for auxiliary contacts Suitability Suitability Suitabile parameters Adjustable parameters Adjustable response value current of I-trip / Full-scale value for N-conductor protection / initial value of or N-conductor protection / Full-scale value of or N-conductor protection / Full-scale value A 0	• at 40 °C / Rated value	Α	125
at 60 °C / Rated value at 65 °C / Rated value at 70 °C / Rated value A 117 Auxiliary circuit Number of CO contacts / for auxiliary contacts Suitability Suitability for use Adjustable parameters Adjustable response value current of I-trip / Full-scale value for N-conductor protection / initial value of or N-conductor protection / Full-scale value for N-conductor protection / Full-scale value of or N-conductor protection / Full-scale value A 10 of or N-conductor protection / Full-scale value A 0	• at 50 °C / Rated value	Α	125
at 65 °C / Rated value at 70 °C / Rated value A 1117 Auxiliary circuit Number of CO contacts / for auxiliary contacts 0 Suitability Suitability for use Adjustable parameters Adjustable response value current of I-trip / Full-scale value for N-conductor protection / initial value of or N-conductor protection / Full-scale value A 10 of N-conductor protection / Full-scale value A 0	• at 55 °C / Rated value	Α	122
at 70 °C / Rated value Auxiliary circuit Number of CO contacts / for auxiliary contacts O Suitability Suitability for use Adjustable parameters Adjustable response value current of I-trip / Full-scale value for N-conductor protection / initial value of Introductor protection / Full-scale value for N-conductor protection / Full-scale value A 10 of Introductor protection / Initial value of Introductor protection / Full-scale value A 0	• at 60 °C / Rated value	Α	120
Auxiliary circuit Number of CO contacts / for auxiliary contacts Suitability Suitability for use system protection Adjustable parameters Adjustable response value current • of I-trip / Full-scale value • for N-conductor protection / initial value • for N-conductor protection / Full-scale value A 0 • for N-conductor protection / Full-scale value A 0	• at 65 °C / Rated value	Α	117
Number of CO contacts / for auxiliary contacts Suitability Suitability for use Adjustable parameters Adjustable response value current of I-trip / Full-scale value for N-conductor protection / initial value for N-conductor protection / Full-scale value for N-conductor protection / Full-scale value A 0	• at 70 °C / Rated value	Α	114
Number of CO contacts / for auxiliary contacts Suitability Suitability for use Adjustable parameters Adjustable response value current of I-trip / Full-scale value for N-conductor protection / initial value for N-conductor protection / Full-scale value for N-conductor protection / Full-scale value A 0	Auxiliary circuit		
Suitability for use Adjustable parameters Adjustable response value current of I-trip / Full-scale value for N-conductor protection / initial value for N-conductor protection / Full-scale value A 0 of N-conductor protection / Full-scale value A 0			0
Adjustable parameters Adjustable response value current • of I-trip / Full-scale value • for N-conductor protection / initial value • for N-conductor protection / Full-scale value A 0 • for N-conductor protection / Full-scale value A 0	Suitability		
Adjustable response value current of I-trip / Full-scale value for N-conductor protection / initial value for N-conductor protection / Full-scale value A 0 of N-conductor protection / Full-scale value A 0	Suitability for use		system protection
 of I-trip / Full-scale value for N-conductor protection / initial value for N-conductor protection / Full-scale value A 0 A 0 	Adjustable parameters		
 for N-conductor protection / initial value for N-conductor protection / Full-scale value A 0 A 0 	Adjustable response value current		
• for N-conductor protection / Full-scale value A 0	● of I-trip / Full-scale value	Α	10
	• for N-conductor protection / initial value	Α	0
Adjustable response value current / of the current- A 0.7	• for N-conductor protection / Full-scale value	Α	0
dependent overload release / initial value	-	Α	0.7
Product details	Product details		
Product component			

		NI-
Trip indicator		No
• display		No
Voltage trigger		No
undervoltage release		No
 undervoltage release with leading contact 		No
Product property		
 for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof 		No
Product expansion / optional / motor drive	_	Yes
Product function		
Product function		
Intrinsic device protection		Yes
communication function		No
Phase failure detection		No
 other measurement function 		No
Accessories		
Manufacturer article number / of the supplied basic		3VA1112-5EE36-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity		
(lcs)		
• at 240 V / Rated value	kA	85
• at 415 V / Rated value	kA	55
• at 440 V / Rated value	kA	30
• at 500 V / Rated value	kA	15
• at 690 V / Rated value	kA	5
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	85
• at 415 V / Rated value	kA	55
• at 440 V / Rated value	kA	30
● at 500 V / Rated value	kA	20
• at 690 V / Rated value	kA	10
Short-circuit current making capacity (Icm)	-	
• at 240 V / Rated value	kA	187
• at 415 V / Rated value		121
	kA	121
• at 690 V / Rated value	kA kA	17
at 690 V / Rated value Connections		
Connections Arrangement of electrical connectors / for main		
Connections		17

• of the round co	onductor terminal / stra	anded			1 x (1.5 - 70 mm²)		
Type of electrical cor	nnection / for main cur	rent circuit			Box terminal		
Mechanical Design							
Height			mm		130		
			mm				
Width			mm		76.2		
Depth			mm		70		
Mounting type					fixed mounting		
Environmental cond	litions						
Ambient temperature							
 during operation 	on / minimum		°C		-25		
 during operation 	on / maximum		°C		70		
during storage	/ minimum		°C		-40		
during storage			°C		80		
Certificates							
Equipment marking							
• acc. to DIN EN	61346-2				Q		
• acc. to DIN EN	81346-2				Q		
General	EMC	Declaration	n of	Shir	pping Approval		other
Product		Conformity		· · · · · ·	. p		
Approval		Comoning					
Αμριοναι	- On						. ()
ГПГ	other			f	Å		other
FHI		して		Ψ			
LIIL		EG-Konf.		DI		31	

Further information

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

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

Industry Mall (Online ordering system)
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11125EE360AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11125EE360AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11125EE360AA0

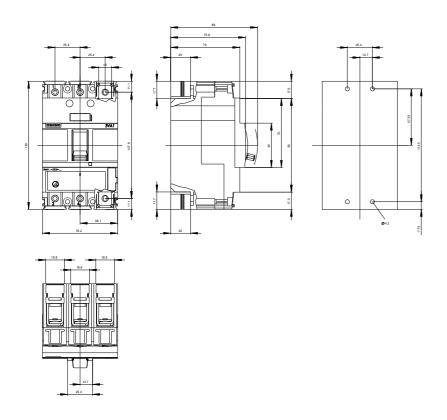
CAx-Online-Generator

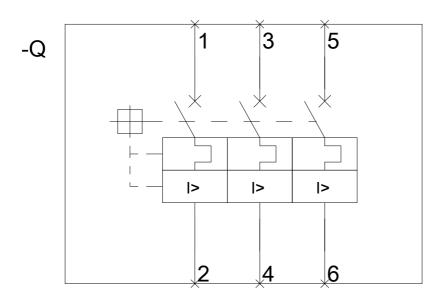
http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv

GL





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