SIEMENS

Data sheet

3VA1132-3EE46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 4-POLE, LINE PROTECTION TM220, ATFM, IN=32A OVERLOAD PROTECTION IR=22,4A ...32A SHORT CIRCUIT PROTECTION II=10 X IN NEUTRAL UNPROTECTED CABLE CONNECTION

Figure similar

Model				
product brand name		SENTRON		
Product designation		Molded case circuit breaker		
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		
Design of the operating mechanism		toggle handle		
Type of the driving mechanism / motor drive		No		
Design of the overcurrent release		TM220		
General technical data				
Number of poles		4		
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 IP40 Protective function of the overcurrent release LI Switching capacity Image: Comparison of the circuit breaker N Dissipation Adive power loss N - maximum W 10.6 Electricity Continuous current / Rated value / maximum A Continuous current / Rated value A 32 Adjustable response value current A 1 - of the current-dependent overload release / Initial value A 10 value V 690 690 - of the circuit V 690 690 - of the circuit and value V 690 690 - of the circuit and value V 690 690 Operating outge V 690 690 - of the circuit and the C / Rated value A 32 32 - at 60 °C / Rated value A 32 32 - at 60 °C / Rated value A 30 31 - at 65 °C / Rated value A 30 30 - at 60 °C / Rated value A 30	Protection class IP		IP40
Protective function of the overcurrent release L1 Switching capacity N Switching capacity class of the circuit breaker N Dissipation Active power loss N Continuous current / Rated value A 32 Adjustable response value current A 32 Foll-scale value A 32 Adjustable response value current A 1 Foll-scale value A 10 • of the current-dependent overload release / Full-scale value A 10 • of the current-dependent overload release / initial value A 10 • of the current-dependent overload release / initial value A 10 • of the current-dependent overload release / initial value A 10 • of the instantaneous short-circuit release / initial value A 10 • of the instantaneous short-circuit release / initial value A 10 • of the 'o' / Rated value V 690 690 • of D / Rated value A 32 41 • at 60 °C / Rated value A 31 41 • at 50 °C / Rated value A 30 31 • at 50 °C / Rated value A 30 30 • at 50 °C / Rated value A <t< td=""><td></td><td></td><td></td></t<>			
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Full-scale value A 10 Main circuit A 10 Main circuit B 690 • with AC / at 50/60 Hz / Rated value V 690 • for DC / Rated value V 690 Operating current V 600 • at 40 °C / Rated value A 32 • at 50 °C / Rated value A 32 • at 55 °C / Rated value A 31 • at 65 °C / Rated value A 30 • at 65 °C / Rated value A 30 • at 65 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 • Ditability Suitability for use sy	Adjustable response value current		
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Operating voltage V 690 • with AC / at 50/60 Hz / Rated value V 600 Operating current 600 • at 40 °C / Rated value A 32 • at 50 °C / Rated value A 32 • at 50 °C / Rated value A 32 • at 55 °C / Rated value A 31 • at 60 °C / Rated value A 31 • at 65 °C / Rated value A 30 • at 65 °C / Rated value A 30 • at 65 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 Auxiliary circuit Number of CO contacts / for auxiliary contacts 0 Suitability system protection Suitability system protection Adjustable parameters 4 10 • of N-conductor protection / initial value A 0 • for N-conductor protection / Full-scale value A		А	10
Operating voltage V 690 • with AC / at 50/60 Hz / Rated value V 600 Operating current 600 • at 40 °C / Rated value A 32 • at 50 °C / Rated value A 32 • at 50 °C / Rated value A 32 • at 55 °C / Rated value A 31 • at 60 °C / Rated value A 31 • at 65 °C / Rated value A 30 • at 65 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 Auxiliary circuit Number of CO contacts / for auxiliary contacts 0 Suitability Suitability Suitability Suitability system protection Adjustable parameters Adjustable parameters A 10 • of I-trip / Full-scale value A 0 • of N-conductor protection / initial value A 0 • of N-conductor protection / Full-scale value A </td <td>Main circuit</td> <td></td> <td></td>	Main circuit		
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Operating current A 32 • at 40 °C / Rated value A 32 • at 50 °C / Rated value A 32 • at 50 °C / Rated value A 31.04 • at 60 °C / Rated value A 31.04 • at 60 °C / Rated value A 31.04 • at 65 °C / Rated value A 30 • at 65 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 Suitability Suitability Suitability Suitability Suitability for use system protection Adjustable personse value current A 10 • of I-trip / Full-scale value A 0 • of N-conductor protection / Initial value A 0 • of N-conductor protection / Full-scale value A	 with AC / at 50/60 Hz / Rated value 	V	690
• at 40 °C / Rated valueA32• at 50 °C / Rated valueA32• at 55 °C / Rated valueA31.04• at 60 °C / Rated valueA31• at 65 °C / Rated valueA30• at 65 °C / Rated valueA30• at 70 °C / Rated value00SuitabilitySuitabilitySuitabilitySuitability for use• of I-trip / Full-scale valueA10• of I-trip / Full-scale valueA0• for N-conductor protection / initial valueA0• for N-conductor protection / Full-scale valueA0• Adjustable response value current / of the current- dependent overload release / initial valueA0.7Product details	 for DC / Rated value 	V	600
• at 50 °C / Rated value A 32 • at 55 °C / Rated value A 31.04 • at 60 °C / Rated value A 31 • at 60 °C / Rated value A 30 • at 65 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 Suitability 0 Suitability Suitability for use system protection Adjustable parameters A 10 • of I-trip / Full-scale value A 0 • for N-conductor protection / initial value A 0 • for N-conductor protection / Full-scale value A 0.7 Product details Product details D	Operating current		
• at 55 °C / Rated value A 31.04 • at 60 °C / Rated value A 31 • at 65 °C / Rated value A 30 • at 65 °C / Rated value A 30 • at 70 °C / Rated value A 30 Auxiliary circuit 0 0 Suitability 0 0 Suitability for use system protection Adjustable parameters A 10 • of I-trip / Full-scale value A 0 • for N-conductor protection / initial value A 0 • for N-conductor protection / Full-scale value A 0.7 Product details Product details Product details	• at 40 °C / Rated value	А	32
• at 60 °C / Rated value A 31 • at 65 °C / Rated value A 30 • at 70 °C / Rated value A 30 Auxiliary circuit A 30 Number of CO contacts / for auxiliary contacts 0 Suitability 0 Suitability system protection Adjustable parameters A Adjustable response value current A • of I-trip / Full-scale value A • for N-conductor protection / initial value A • for N-conductor protection / Full-scale value A Adjustable response value current / of the current- A • for N-conductor protection / Full-scale value A Adjustable response value current / of the current- A • for N-conductor protection / Full-scale value A	• at 50 °C / Rated value	А	32
• at 65 °C / Rated value A 30 • at 70 °C / Rated value A 30 Auxiliary circuit A 30 Number of CO contacts / for auxiliary contacts 0 Suitability 0 Suitability for use system protection Adjustable parameters A Adjustable response value current A • of I-trip / Full-scale value A • for N-conductor protection / initial value A • for N-conductor protection / Full-scale value A Adjustable response value current / of the current- A • for N-conductor protection / Full-scale value A Adjustable response value current / of the current- A • for N-conductor protection / Full-scale value	• at 55 °C / Rated value	А	31.04
• at 70 °C / Rated valueA30Auxiliary circuit0Number of CO contacts / for auxiliary contacts0SuitabilitySuitability for use0Adjustable parametersSystem protectionAdjustable response value current • of I-trip / Full-scale valueA10• for N-conductor protection / initial valueA0• for N-conductor protection / Full-scale valueA0.7• for N-conductor protection / Full-scale valueA0.7• for N-conductor release / initial valueA0.7	● at 60 °C / Rated value	А	31
Auxiliary circuit 0 Number of CO contacts / for auxiliary contacts 0 Suitability 0 Suitability for use system protection Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A • for N-conductor protection / initial value A • for N-conductor protection / Full-scale value A • Adjustable response value current A • for N-conductor protection / Full-scale value A • Adjustable response value current / of the current- A • for N-conductor protection / Full-scale value A • for N-conductor protection / Initial value A • for N-conductor protection / Full-scale value A • for N-conductor protection / Initial value A • for N-conductor protection / Initial va	● at 65 °C / Rated value	А	30
Number of CO contacts / for auxiliary contacts 0 Suitability system protection Suitability for use system protection Adjustable parameters 10 Adjustable response value current A 10 • of I-trip / Full-scale value A 0 • for N-conductor protection / initial value A 0 • for N-conductor protection / Full-scale value A 0 • for N-conductor protection / Full-scale value A 0 • for N-conductor protection / Full-scale value A 0 • for N-conductor protection / Full-scale value A 0 • for N-conductor protection / Full-scale value A 0 • for N-conductor protection / Full-scale value A 0.7 • Product details Product details Product details	• at 70 °C / Rated value	А	30
Number of CO contacts / for auxiliary contacts 0 Suitability Suitability for use Suitability for use system protection Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A • for N-conductor protection / initial value A • for N-conductor protection / Full-scale value A	Auxiliary circuit		
Suitability system protection Suitability for use system protection Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A • for N-conductor protection / initial value A • for N-conductor protection / Full-scale value A			0
Suitability for use system protection Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A 10 • for N-conductor protection / initial value A 0 • for N-conductor protection / Full-scale value A 0 Adjustable response value current / of the current- A 0 Product details Product details Product details			
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Adjustable response value current A 10 • of I-trip / Full-scale value A 10 • for N-conductor protection / initial value A 0 • for N-conductor protection / Full-scale value A 0 • Adjustable response value current / of the current- dependent overload release / initial value A 0.7 Product details Product details Product details Product details			system protection
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for N-conductor protection / Full-scale value A Adjustable response value current / of the current- dependent overload release / initial value Product details			
Adjustable response value current / of the current- dependent overload release / initial value A 0.7 Product details		A	
dependent overload release / initial value Product details			
		A	0.7
	Product details		
Product component			

• Tuin indicator		No
• Trip indicator		
• 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 switch		<u>3VA1132-3EE46-0AA0</u>
Short circuit		
Operational short-circuit current breaking capacity (Ics)		
• at 240 V / Rated value	kA	36
• at 415 V / Rated value	kA	25
• at 440 V / Rated value	kA	16
• at 500 V / Rated value	kA	8
• at 690 V / Rated value	kA	5
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	36
• at 415 V / Rated value	kA	25
• at 440 V / Rated value	kA	16
• at 500 V / Rated value	kA	8
• at 690 V / Rated value	kA	7
Short-circuit current making capacity (Icm)		
• at 240 V / Rated value	kA	75.6
• at 415 V / Rated value	kA	52.5
• at 690 V / Rated value	kA	7.5
Connections		
Arrangement of electrical connectors / for main current circuit		Front terminal

Type of connectable conductor cross-section

• of the round co	onductor terminal / str	anded		1 x (1.5 - 70 mm²)	
Type of electrical co	nnection / for main cu	urrent circuit		Box terminal	
Mechanical Design					
Height			mm	130	
Width			mm	101.6	
Depth			mm	70	
Mounting type				fixed mounting	
Environmental cond	litions				
Ambient temperature	9				
 during operation 	on / minimum		°C	-25	
 during operation 	on / maximum		°C	70	
 during storage 	/ minimum		°C	-40	
 during storage 	 during storage / maximum 		°C	80	
Certificates					
Equipment marking					
 acc. to DIN EN 	l 61346-2			Q	
 acc. to DIN EN 	81346-2			Q	
General Product Approval	EMC	Declaration Conformity		pping Approval	other
EHC	other	EG-Konf.			other

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

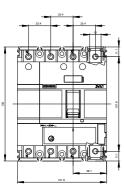
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11323EE460AA0

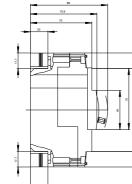
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11323EE460AA0/all

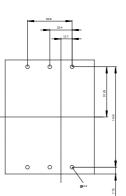
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11323EE460AA0

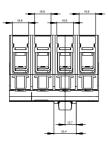
CAx-Online-Generator http://www.siemens.com/cax

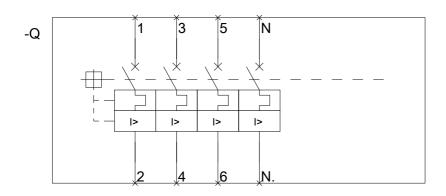
Tender specifications http://ausschreibungstexte.siemens.com/tiplv











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