SIEMENS

Data sheet

3VA1110-4EE46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS S ICU=36KA @ 415 V 4-POLE, LINE PROTECTION TM220, ATFM, IN=100A OVERLOAD PROTECTION IR=70A ...100A 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
Mechanical service life (switching cycles) / typical		15 000
Voltage		
Insulation voltage / Rated value	V	800
Protection class		
Protection class IP		IP40
Protection class IP / on the front		IP40
Protective function of the overcurrent release		U

Switching capacity class of the circuit breaker Dissipation Active power loss maximum W Electricity Continuous current / Rated value / maximum A Continuous current / Rated value A Adjustable response value current	S 25 160 100 100
Active power loss W • maximum W Electricity Continuous current / Rated value / maximum A Continuous current / Rated value	160 100
maximum W Electricity Continuous current / Rated value / maximum A Continuous current / Rated value A	160 100
Electricity Continuous current / Rated value / maximum A Continuous current / Rated value A	160 100
Continuous current / Rated value / maximum A Continuous current / Rated value A	100
Continuous current / Rated value A	100
Adjustable response value current	100
	100
of the current-dependent overload release / A Full-scale value	
Main circuit	
Operating voltage	
• with AC / at 50/60 Hz / Rated value V	690
• for DC / Rated value V	600
Operating current	
• at 40 °C / Rated value A	100
• at 50 °C / Rated value A	100
• at 55 °C / Rated value A	98
• at 60 °C / Rated value A	96
• at 65 °C / Rated value A	94
• at 70 °C / Rated value A	91
Auxiliary circuit	
Number of CO contacts / for auxiliary contacts	0
Suitability	
Suitability for use	system protection
Adjustable parameters	
Adjustable response value current	
• of S-trip / with standard characteristic / initial A	1 000
value	
• of S-trip / with standard characteristic / Full- scale value	1 000
• 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	70
dependent overload release / initial value	
Product details	
Product component	
Trip indicator	No
● display	No

Voltage trigger		No
undervoltage release		No
 undervoltage release with leading contact 		No
Product property		
for neutral conductors /		No
upgradeable/retrofittable / Short-circuit and		
overload proof		
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		<u>3VA1110-4EE46-0AA0</u>
switch		
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)		
• at 240 V / Rated value	kA	55
• at 415 V / Rated value	kA	36
• at 440 V / Rated value	kA	25
• 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	55
• at 415 V / Rated value	kA	36
• at 440 V / Rated value	kA	25
• at 500 V / Rated value	kA	16
• at 690 V / Rated value	kA	7
Short-circuit current making capacity (Icm)		
• at 240 V / Rated value	kA	121
• at 415 V / Rated value	kA	75.6
• at 440 V / Rated value	kA	52.5
• at 690 V / Rated value	kA	7.5
Connections		
Arrangement of electrical connectors / for main		Front terminal
current circuit		
Type of connectable conductor cross-section		
 of the round conductor terminal / stranded 		1 x (1.5 - 70 mm²)

Type of electrical connection / for main current circuit				Box terminal			
echanical Design							
Height		mm		130			
Vidth			mm		101.6		
Depth			mm		70		
Mounting type				fixed mounting			
Net weight		g		1 200			
nvironmental conc	litions						
Ambient temperature	9						
• during operation / minimum		°C		-25			
 during operation 	on / maximum		°C		70		
• during storage / minimum		°C		-40			
 during storage 	/ maximum		°C		80		
ertificates							
Equipment marking							
 acc. to DIN EN 	l 61346-2				Q		
• acc. to DIN EN 81346-2				Q			
General	EMC	Declaration	claration of Tes		t	Shipping Approval	
Product		Conformity	'	Cer	tificates		
Approval							
EHC	<u>other</u>	EG-Konf.			ype Test ificates/Test Report	ĴÅ DNV DNV	GL
Shipping Approval	other						
Lloyd's Register	other						
LRS							

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/3VA11104EE460AA0

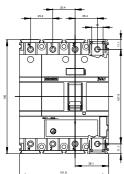
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11104EE460AA0/all

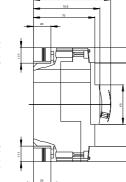
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11104EE460AA0

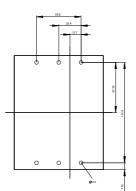
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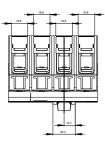
http://www.siemens.com/cax

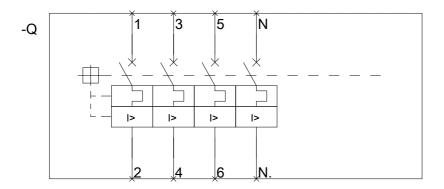
Tender specifications http://ausschreibungstexte.siemens.com/tiplv











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