SIEMENS

Datasheet

3VA1110-5GE46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4-POLE, LINE PROTECTION TM220, ATFM, IN=100A OVERLOAD PROTECTION IR=70A ...100A SHORT CIRCUIT PROTECTION II=10 X IN NEUTRAL PROTECTION 100% 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					
Protective function of the overcurrent release		LI			
Switching canacity					
Switching capacity Switching capacity class of the circuit breaker		M			
ownering supusity states of the should broade.					
Dissipation					
Active power loss					
• maximum	W	25			
Electricity					
Operating current / at 45 °C / Rated value	Α	100			
Continuous current / Rated value / maximum	Α	160			
Continuous current					
Rated value	Α	100			
Adjustable response value current					
• of the current-dependent overload release /	Α	1			
Full-scale value					
• of the instantaneous short-circuit release / initial	Α	10			
value					
Net weight	g	1 200			
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	Α	100			
• at 50 °C / Rated value	Α	100			
• at 55 °C / Rated value	Α	98			
• at 60 °C / Rated value	Α	96			
• at 65 °C / Rated value	Α	94			
• at 70 °C / Rated value	Α	91			
Auxiliary circuit					
Number of CO contacts					
• for auxiliary contacts		0			
•					
Suitability					
Suitability for use		system protection			
Adjustable parameters					
Adjustable response value current					
● of I-trip / Full-scale value	Α	10			
• for N-conductor protection / initial value	Α	100			
• for N-conductor protection / Full-scale value	Α	100			

Adjustable response value current / of the current- dependent overload release / initial value	А	0.7
Appearance		
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 / 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		3VA1110-5GE46-0AA0
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)		
● 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 (lcm)		

• at 240 V / Rated value	kA	187
• at 415 V / Rated value	kA	121
• at 690 V / Rated value	kA	17

Connections				
Arrangement of electrical connectors				
for main current circuit	Front terminal			
Type of connectable conductor cross-section				
 of the round conductor terminal / stranded 	1 x (1.5 - 70 mm²)			
Design of the electrical connection				
• for main current circuit	Box terminal			

Mechanical Design					
Height	130				
Width	mm	101.6			
Depth	mm	70			
Mounting type		fixed mounting			

Environmental conditions				
Ambient temperature				
during operation / minimum	°C	-25		
during operation / maximum	°C	70		
during storage / minimum	°C	-40		
during storage / maximum	°C	80		

Certificates						
_	Reference code					
	● acc. to DIN EN 61346-2				Q	
	● acc. to DIN EN 81346-2				Q	

General	EMC	Declaration of	Shipping	other
Product		Conformity	Approval	
Approval				
	other			other





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/3VA11105GE460AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11105GE460AA0/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11105GE460AA0

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

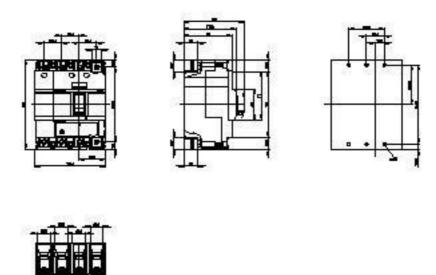


Figure similar

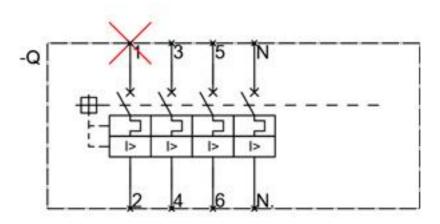


Figure similar

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