SIEMENS

Data sheet

3VA1163-6EE46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS H ICU=70KA @ 415 V 4-POLE, LINE PROTECTION TM220, ATFM, IN=63A OVERLOAD PROTECTION IR=44,1A ...63A 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

Protective function of the overcurrent release LI Switching capacity Switching capacity Switching capacity class of the circuit breaker H Dissipation Active power loss • maximum W 17.3 Electricity Confinuous current / Rated value / maximum A A 160 Continuous current / Rated value / maximum A A 63 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 50 °C / Rated value • at 65 °C / Rated value • at 6	
Switching capacity class of the circuit breaker Dissipation Active power loss • maximum W 17.3 Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value A 63 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 55 °C / Rated value • at 55 °C / Rated value • at 65 °C / Rated value • at 65 °C / Rated value • at 60 °C / Rated value • at 70 °C / Rated value • at 70 °C / Rated value Adjustable parameters Adjustable parameters Adjustable parameters Adjustable parameters Adjustable response value current	
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Active power loss • maximum M	
Electricity Continuous current / Rated value / maximum	
Continuous current / Rated value / maximum	
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Suitability for use system protection Adjustable parameters Adjustable response value current	
Suitability for use system protection Adjustable parameters Adjustable response value current	
Adjustable response value current	
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- dependent overload release / initial value 0.7	
Product details	
Product component	

Trip indicator		No
		No
• display		No
Voltage trigger		No
undervoltage release		
undervoltage release with leading contact	_	No
Product property		No
 for neutral conductors / upgradeable/retrofittable / Short-circuit and 		INO
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		3VA1163-6EE46-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity		
(lcs)		
• at 240 V / Rated value	kA	100
• at 415 V / Rated value	kA	70
• at 440 V / Rated value	kA	36
• at 500 V / Rated value	kA	
		15
at 690 V / Rated value	kA	15 5
at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu)	kA	
	kA kA	
Maximum short-circuit current breaking capacity (Icu)		5
Maximum short-circuit current breaking capacity (Icu) ■ at 240 V / Rated value	kA	100
Maximum short-circuit current breaking capacity (Icu) ■ at 240 V / Rated value ■ at 415 V / Rated value	kA kA	5 100 70
Maximum short-circuit current breaking capacity (Icu) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value	kA kA kA	5 100 70 36
Maximum short-circuit current breaking capacity (Icu) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value	kA kA kA kA	5 100 70 36 20
Maximum short-circuit current breaking capacity (Icu) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value	kA kA kA kA	5 100 70 36 20
Maximum short-circuit current breaking capacity (Icu) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value Short-circuit current making capacity (Icm)	kA kA kA kA	5 100 70 36 20 10
Maximum short-circuit current breaking capacity (Icu) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value Short-circuit current making capacity (Icm) • at 240 V / Rated value	kA kA kA kA kA	5 100 70 36 20 10
Maximum short-circuit current breaking capacity (Icu) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value Short-circuit current making capacity (Icm) • at 240 V / Rated value • at 415 V / Rated value • at 690 V / Rated value • at 690 V / Rated value	kA kA kA kA kA	5 100 70 36 20 10 220 154 17
Maximum short-circuit current breaking capacity (Icu) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value Short-circuit current making capacity (Icm) • at 240 V / Rated value • at 415 V / Rated value • at 690 V / Rated value • at 690 V / Rated value Connections Arrangement of electrical connectors / for main	kA kA kA kA kA	5 100 70 36 20 10 220 154
Maximum short-circuit current breaking capacity (Icu) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value Short-circuit current making capacity (Icm) • at 240 V / Rated value • at 415 V / Rated value • at 690 V / Rated value • at 690 V / Rated value	kA kA kA kA kA	5 100 70 36 20 10 220 154 17

• of the round conductor terminal / stranded				1 x (1.5 - 70 mm²)		
Type of electrical connection	al connection / for main current circuit				Box terminal	
Mechanical Design						
Height			mm		130	
Width			mm		101.6	
Depth			mm		70	
Mounting type	Mounting type				fixed mounting	
Environmental conditions	Environmental conditions					
Ambient temperature						
during operation / mi	during operation / minimum		°C		-25	
during operation / maximum		°C		70		
during storage / minimum		°C		-40		
during storage / maximum		°C		80		
Certificates						
Equipment marking	Equipment marking					
• acc. to DIN EN 61346-2				Q		
• acc. to DIN EN 81346-2				Q		
General EM Product		Declaration of Shi Conformity		Ship	oping Approval	other

Further information

Approval

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

other

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

Industry Mall (Online ordering system)
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11636EE460AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11636EE460AA0/all

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

EG-Konf.

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11636EE460AA0

CAx-Online-Generator

http://www.siemens.com/cax

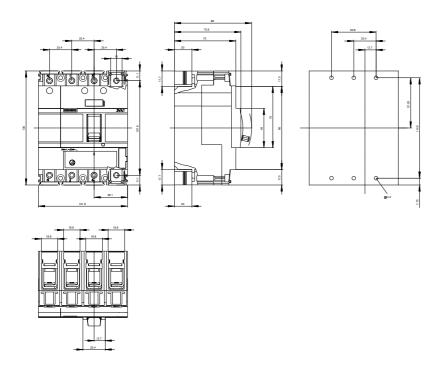
Tender specifications

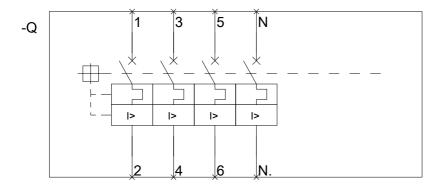
http://ausschreibungstexte.siemens.com/tiplv

other

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