SIEMENS

Data sheet

3VA1140-6EE46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS H ICU=70KA @ 415 V 4-POLE, LINE PROTECTION TM220, ATFM, IN=40A OVERLOAD PROTECTION IR=28A ...40A 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 class of the circuit breaker H Dissipation Active power loss • maximum W 10.8 Electricity Continuous current / Rated value / maximum 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 V 690 V 600	
Switching capacity Switching capacity class of the circuit breaker Dissipation Active power loss • maximum W 10.8 Electricity Continuous current / Rated value / maximum 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 V 690	
Switching capacity class of the circuit breaker Dissipation Active power loss • maximum W 10.8 Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value A 40 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 V 690	
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Active power loss • maximum Main circuit Main circuit Main circuit Main circuit Material (Continuous short (Continuous current)	
Active power loss • maximum M	
Continuous current / Rated value / maximum A 160 Continuous current / Rated value A 40 Adjustable response value current • of the current-dependent overload release / A 1 Full-scale value • of the instantaneous short-circuit release / initial value Main circuit Operating voltage • with AC / at 50/60 Hz / Rated value V 690	
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Full-scale value • of the instantaneous short-circuit release / initial value Main circuit Operating voltage • with AC / at 50/60 Hz / Rated value V 690	
value Main circuit Operating voltage ● with AC / at 50/60 Hz / Rated value V 690	
Operating voltage ● with AC / at 50/60 Hz / Rated value V 690	
• with AC / at 50/60 Hz / Rated value V 690	
• for DC / Rated value V 600	
Tot 50 / Tratou value	
Operating current	
at 40 °C / Rated value A 40	
at 50 °C / Rated value A 40	
• at 55 °C / Rated value A 39	
• at 60 °C / Rated value A 39	
• at 65 °C / Rated value A 38	
• at 70 °C / Rated value A 37	
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 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	
Product details	
Product component 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 		NO .
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		3VA1140-6EE46-0AA0
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	5
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	100
• at 415 V / Rated value	kA	70
at 440 V / Rated value	kA	26
	KA	36
• at 500 V / Rated value	kA	20
at 500 V / Rated valueat 690 V / Rated value		
	kA	20
• at 690 V / Rated value	kA	20
at 690 V / Rated value Short-circuit current making capacity (Icm)	kA kA	20 10
 at 690 V / Rated value Short-circuit current making capacity (Icm) at 240 V / Rated value 	kA kA kA	20 10 220
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 Connections	kA kA kA kA	20 10 220 154 17
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 Connections Arrangement of electrical connectors / for main	kA kA kA kA	20 10 220 154
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 Connections	kA kA kA kA	20 10 220 154 17

 of the round conductor terminal / stranded 		1 x (1.5 - 70 mm²)
Type of electrical connection / for main current circuit		Box terminal
Mechanical Design		
Height	mm	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		
Equipment marking		
• acc. to DIN EN 61346-2		Q
● acc. to DIN EN 81346-2		Q

General

Product

Approval

other

EMC



Declaration of

Conformity



Shipping Approval



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/3VA11406EE460AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11406EE460AA0/all

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

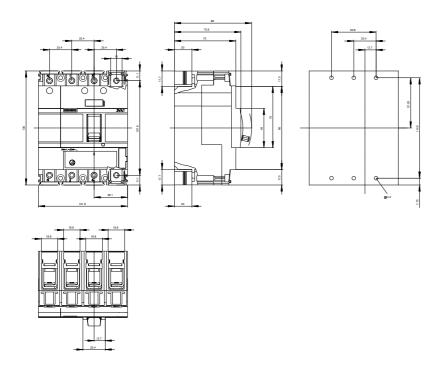
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11406EE460AA0

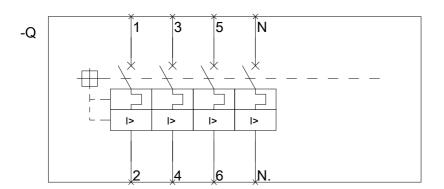
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv





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