SIEMENS

Data sheet

3VA1150-6GF46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS H ICU=70KA @ 415 V 4-POLE, LINE PROTECTION TM240, ATAM, IN=50A OVERLOAD PROTECTION IR=35A ...50A SHORT CIRCUIT PROTECTION II=5...10 X IN NEUTRAL PROTECTION 100% CABLE CONNECTION

Figure similar

Model		
product brand name	SENTRON	
Product designation	Molded case circuit brea	aker
Design of the product	Line protection	
Product variations	General Applications	
Ground fault monitoring version	Without	
Design of the auxiliary release	Without auxiliary release	е
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	TM240	

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 14.6 Electricity Continuous current / Rated value / maximum Continuous current / Rated value • 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 690 V 690		
Switching capacity Switching capacity class of the circuit breaker Dissipation Active power loss • maximum W 14.6 Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value A 50 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 14.6 Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value A 50 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 14.6 Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value A 50 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		
Active power loss • maximum Main circuit Active power loss Main circuit Acted value / maximum Active power loss		
Active power loss • maximum Main circuit Active power loss Main circuit Active power loss		
Continuous current / Rated value / maximum A 160 Continuous current / Rated value A 50 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		
Continuous current / Rated value / maximum A 160 Continuous current / Rated value A 50 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		
Continuous current / Rated value 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		
Adjustable response value current • of the current-dependent overload release / A 1 Full-scale value • of the instantaneous short-circuit release / initial A 5 value Main circuit Operating voltage • with AC / at 50/60 Hz / Rated value V 690		
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 A 1 S 4 5 W 690		
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 / Pated value		
▼ IOI DC / Nateu value		
Operating current		
at 40 °C / Rated value A 50		
at 50 °C / Rated value A 50		
at 55 °C / Rated value A 49		
• at 60 °C / Rated value A 48		
• at 65 °C / Rated value A 46		
at 70 °C / Rated value A 45		
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 100		
● for N-conductor protection / Full-scale value A 100		
Adjustable response value current / of the current- dependent overload release / initial value		
Product details		
Product component		

Trip indicator		No
		No
display Voltage trigger		No
Voltage triggerundervoltage release		No
•		No
undervoltage release with leading contact Product property		INO
Product property for neutral conductors /		No
upgradeable/retrofittable / Short-circuit and		140
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		3VA1150-6GF46-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)		400
• 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)		400
● 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	20
• at 690 V / Rated value	kA	10
Short-circuit current making capacity (lcm)		
• at 240 V / Rated value	kA	220
• at 415 V / Rated value	kA	154
at 690 V / Rated value		
at 030 v / Nated value	kA	17
Connections	kA	
Connections Arrangement of electrical connectors / for main	kA	Front terminal
Connections	kA	

 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/3VA11506GF460AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11506GF460AA0/all

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

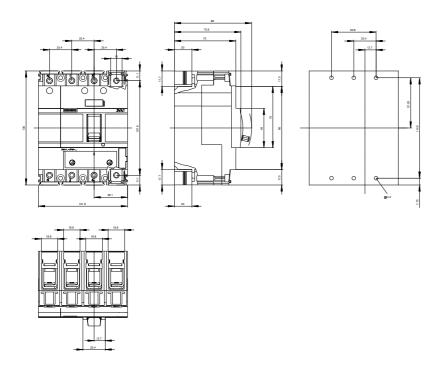
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11506GF460AA0

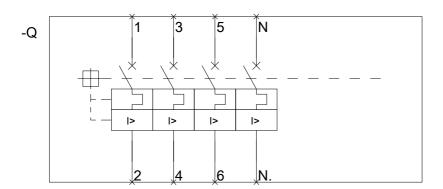
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv





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