SIEMENS

Data sheet

3VA1150-4GF42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS S ICU=36KA @ 415 V 4-POLE, LINE PROTECTION TM240, ATAM, IN=50A OVERLOAD PROTECTION IR=35A ...50A SHORT CIRCUIT PROTECTION II=5 X IN NEUTRAL PROTECTION 100% BUSBAR 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 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		1.		
value				
Trip class / of the L-trip / with I2t characteristic / Full-		1		
scale value				
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		Ц		
Switching capacity				

Switching capacity class of the circuit breaker

S

Dissipation		
Active power loss		
• maximum	W	14.6
Electricity		
Continuous current / Rated value / maximum	Α	160
Continuous current / Rated value	Α	50
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	50
• at 50 °C / Rated value	Α	50
• at 55 °C / Rated value	Α	49
• at 60 °C / Rated value	Α	48
• at 65 °C / Rated value	Α	46
• at 70 °C / Rated value	Α	45
Auxiliary circuit		
Number of CO contacts / for auxiliary contacts		0
Suitability		
Suitability Suitability for use		system protection
		system protection
Suitability for use	A	system protection 50
Suitability for use Adjustable parameters Adjustable response value current / of the current-	A	
Suitability for use Adjustable parameters Adjustable response value current / of the current-dependent overload release / initial value	A	
Suitability for use Adjustable parameters Adjustable response value current / of the current-dependent overload release / initial value Product details	A	
Suitability for use Adjustable parameters Adjustable response value current / of the current-dependent overload release / initial value Product details Product component	A	50
Suitability for use Adjustable parameters Adjustable response value current / of the current-dependent overload release / initial value Product details Product component • Trip indicator	A	50 No
Suitability for use Adjustable parameters Adjustable response value current / of the current-dependent overload release / initial value Product details Product component • Trip indicator • display	A	No No
Suitability for use Adjustable parameters Adjustable response value current / of the current-dependent overload release / initial value Product details Product component • Trip indicator • display • undervoltage release	A	No No
Adjustable parameters Adjustable response value current / of the current-dependent overload release / initial value Product details Product component • Trip indicator • display • undervoltage release Product property • for neutral conductors / upgradeable/retrofittable / Short-circuit and	A	No No No
Adjustable parameters Adjustable response value current / of the current-dependent overload release / initial value Product details Product component Trip indicator display undervoltage release Product property for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof	A	No No No
Adjustable parameters Adjustable response value current / of the current-dependent overload release / initial value Product details Product component • Trip indicator • display • undervoltage release Product property • for neutral conductors / upgradeable/retrofittable / Short-circuit and	A	No No No
Suitability for use Adjustable parameters Adjustable response value current / of the current-dependent overload release / initial value Product details Product component • Trip indicator • display • undervoltage release Product property • for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof Product expansion / optional / motor drive	A	No No No
Suitability for use Adjustable parameters Adjustable response value current / of the current-dependent overload release / initial value Product details Product component • Trip indicator • display • undervoltage release Product property • for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof Product expansion / optional / motor drive Product function Product function	A	No No No No Yes
Suitability for use Adjustable parameters Adjustable response value current / of the current-dependent overload release / initial value Product details Product component • Trip indicator • display • undervoltage release Product property • for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof Product expansion / optional / motor drive	A	No No No
Suitability for use Adjustable parameters Adjustable response value current / of the current-dependent overload release / initial value Product details Product component • Trip indicator • display • undervoltage release Product property • for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof Product expansion / optional / motor drive Product function Product function	A	No No No No Yes

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 500 V / Rated value	kA	32		
• at 690 V / Rated value	kA	7.5		
Connections				
Connections Arrangement of electrical connectors / for main		Front terminal		
current circuit		Tront terminal		
Type of connectable conductor cross-section				
for flat-bar terminal connection / minimum		12 x 0		
for flat-bar terminal connection / maximum		17 x 6.5		
Type of electrical connection / for main current circuit		Lug terminal		
Mechanical Design				
Height	mm	130		
Width	mm	101.6		
Depth	mm	70		
Mounting type		fixed mounting		
Net weight	g	1 200		
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

• acc. to DIN EN 81346-2

Q Q

General Product Approval

EMC

Declaration of Conformity

Test Certificates **Shipping Approval**





sonstig



Typprüfbescheinigu ng/Werkszeugnis



Shipping Approval

other





sonstig

GL

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/3VA11504GF420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3VA11504GF420AA0/all

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

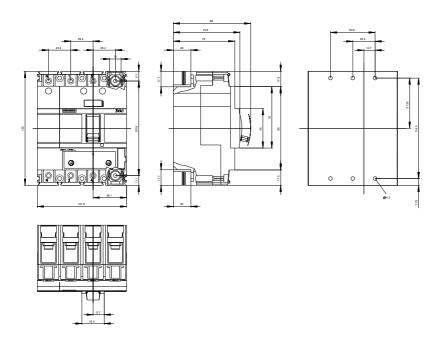
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11504GF420AA0}$

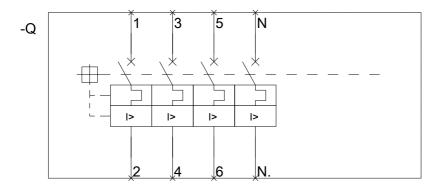
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv





last modified: 04.06.2015