SIEMENS

Data sheet

3VA1150-6ED42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS H ICU=70KA @ 415 V 4-POLE, LINE PROTECTION TM210, FTFM, IN=50A OVERLOAD PROTECTION IR=50A FIXED SHORT CIRCUIT PROTECTION II=10 X IN NEUTRAL UNPROTECTED 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 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	TM210

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

Protection class IP		IP40
Protection class IP / on the front		IP40
Protective function of the overcurrent release		Ц
Curitahing agnesity		
Switching capacity Switching capacity class of the circuit breaker		Н
		· ·
Dissipation		
Active power loss	W	14.6
• maximum	VV	14.0
Electricity		
Continuous current / Rated value / maximum	Α	160
Continuous current / Rated value	Α	50
Adjustable response value current		
 of the current-dependent overload release / Full-scale value 	Α	1
 of the instantaneous short-circuit release / initial value 	Α	10
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
<u> </u>		
Adjustable parameters Adjustable response value current		
of I-trip / Full-scale value	Α	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-	A	1
dependent overload release / initial value		
Product details		
Product component		

Trip indicator		No
		No
• display		No
Voltage trigger		No
undervoltage release		
undervoltage release with leading contact		No
Product property		Na
 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		3VA1150-6ED42-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)	lεA	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
	10 (
Short-circuit current making capacity (lcm)		
• at 240 V / Rated value	kA	220
at 240 V / Rated valueat 415 V / Rated value	kA kA	220 154
• at 240 V / Rated value	kA	220
 at 240 V / Rated value at 415 V / Rated value at 690 V / Rated value Connections	kA kA	220 154 17
 at 240 V / Rated value at 415 V / Rated value at 690 V / Rated value Connections Arrangement of electrical connectors / for main	kA kA	220 154
 at 240 V / Rated value at 415 V / Rated value at 690 V / Rated value Connections	kA kA	220 154 17

• 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	

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**

Q • acc. to DIN EN 61346-2 Q • acc. to DIN EN 81346-2

General Product Approval	EMC	Declaration of	Shipping Approval
		Conformity	











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/3VA11506ED420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11506ED420AA0/all

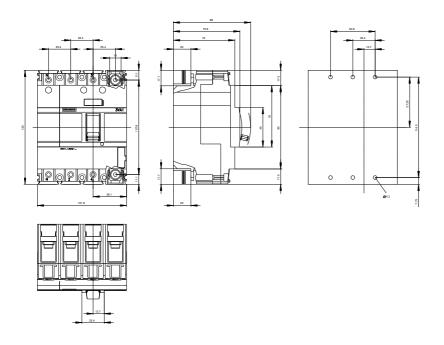
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11506ED420AA0

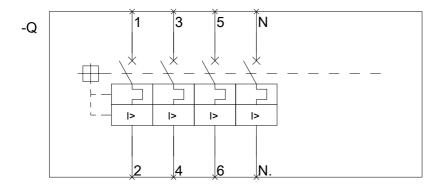
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv





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