SIEMENS

Data sheet

3VA1216-4EF32-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 250 BREAKING CAPACITY CLASS S ICU=36KA @ 415 V 3-POLE, LINE PROTECTION TM240, ATAM, IN=160A OVERLOAD PROTECTION IR=112A ...160A SHORT CIRCUIT PROTECTION II=5...10 X IN 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				

General technical data		
Number of poles		3
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
Total disconnection time / for G-tripping / with standard characteristic / initial value	S	0
Total disconnection time / for G-tripping / with standard characteristic / Full-scale value	S	0
Mechanical service life (switching cycles) / typical		15 000

Voltage		
Insulation voltage / Rated value	V	800
Protection class		

Protection class	
Protection class IP	IP40
Protection class IP / on the front	IP40

Protective function of the overcurrent release		LI
Switching capacity		
Switching capacity class of the circuit breaker		S
Dissipation		
Active power loss		
• maximum	W	33
Electricity		
Continuous current / Rated value / maximum	Α	250
Continuous current / Rated value	Α	160
Main circuit		
Operating voltage		
with AC / at 50/60 Hz / Rated value	V	690
for DC / Rated value	V	500
Operating current		
• at 40 °C / Rated value	Α	160
• at 50 °C / Rated value	Α	160
• at 55 °C / Rated value	Α	155.6
• at 60 °C / Rated value	Α	151.2
• at 65 °C / Rated value	Α	146.8
• at 70 °C / Rated value	Α	142.4
Auxiliary circuit		
Number of CO contacts / for auxiliary contacts		0
Suitability		
Suitability for use		system protection
Adjustable parameters	_	
Adjustable response value current		
for G-tripping / with I2t characteristic / initial	Α	0
value		
 for G-tripping / with I2t characteristic / Full-scale value 	Α	0
Adjustable delay time		
• for G-tripping / with I2t characteristic / initial value	S	0
	s	0
value • for G-tripping / with I2t characteristic / Full-scale		
value • for G-tripping / with I2t characteristic / Full-scale value Adjustable response value current / of the current-	S	0
value • for G-tripping / with I2t characteristic / Full-scale value Adjustable response value current / of the current-dependent overload release / initial value	S	0

• display		No
undervoltage release		No
Product property		
of the circuit breaker with tripping unit / Tripping characteristic adjustable		No
 for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof 		No
Product expansion / optional / motor drive		Yes
Product function		
Product function		
 Intrinsic device protection 		Yes
• communication function		No
 other measurement function 		No
Short circuit		
Operational short-circuit current breaking capacity		
(lcs)		
• at 240 V / Rated value	kA	55
● at 415 V / Rated value	kA	36
• at 440 V / Rated value	kA	25
• 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 690 V / Rated value	kA	7
Short-circuit current making capacity (lcm)		
• at 240 V / Rated value	kA	121
● at 415 V / Rated value	kA	75.6
• at 440 V / Rated value	kA	52.5
● at 690 V / Rated value	kA	11.9
Connections		
Arrangement of electrical connectors / for main		Front terminal
current circuit		
Type of electrical connection / for main current circuit		Lug terminal
Mechanical Design		
Height	mm	158
Width	mm	105
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

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

General Product Approval	Declaration of	Test	other
	Conformity	Certificates	







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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/3VA12164EF320AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA12164EF320AA0/all

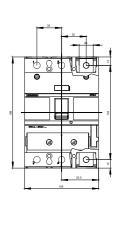
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA12164EF320AA0

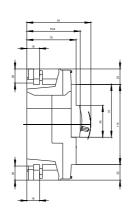
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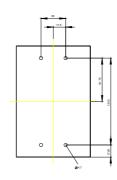
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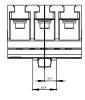
Tender specifications

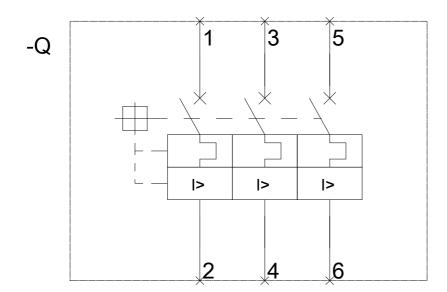
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