# **SIEMENS**

## **Datasheet**

# 3VA1040-4ED32-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 100 BREAKING CAPACITY CLASS S ICU=36KA @ 415 V 3-POLE, LINE PROTECTION TM210, FTFM, IN=40A OVERLOAD PROTECTION IR=40A FIXED SHORT CIRCUIT PROTECTION II=10 X IN BUSBAR CONNECTION

Figure similar

Model 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		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		
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		Ц		
Switching capacity	_			
Switching capacity class of the circuit breaker		S		
Dissipation				
Active power loss	<b>NA</b> /	40.0		
• maximum	W	10.8		
Electricity				
Operating current / at 45 °C / Rated value	Α	40		
Continuous current / Rated value / maximum	Α	100		
Continuous current				
Rated value	Α	40		
Adjustable response value current				
<ul> <li>of the current-dependent overload release / Full-scale value</li> </ul>	Α	1		
of the instantaneous short-circuit release / initial	Α	10		
value	, <b>,</b>			
Net weight	g	900		
Main circuit				
Operating voltage				
<ul> <li>with AC / at 50/60 Hz / Rated value</li> </ul>	V	690		
• for DC / Rated value	V	500		
Operating current				
● at 40 °C / Rated value	Α	40		
• at 50 °C / Rated value	Α	40		
• at 55 °C / Rated value	Α	39		
• at 60 °C / Rated value	Α	39		
• at 65 °C / Rated value	Α	38		
• at 70 °C / Rated value	Α	37		
Auxiliary circuit				
Number of CO contacts				
• for auxiliary contacts		0		
Suitability				
Suitability for use		system protection		
Adjustable parameters				
Adjustable response value current	^	10		
of I-trip / Full-scale value	A	10		
• for N-conductor protection / initial value	A	0		
• for N-conductor protection / Full-scale value	Α	0		

Adjustable response value current / of the current- dependent overload release / initial value	A	1
Appearance		
Product details		
Product component		
Trip indicator		No
● display		No
<ul> <li>Voltage trigger</li> </ul>		No
undervoltage release		No
<ul> <li>undervoltage release with leading contact</li> </ul>		No
Product property		
<ul> <li>for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof</li> </ul>		No
Product expansion		
<ul><li>optional</li></ul>		
— motor drive		No
Product function		
Product function		
<ul> <li>Intrinsic device protection</li> </ul>		Yes
<ul> <li>communication function</li> </ul>		No
Phase failure detection		No
other measurement function		No
Accessories		
Manufacturer article number / of the supplied basic switch		3VA1040-4ED32-0AA0
Short circuit		
Operational short-circuit current breaking capacity		
(lcs)	kA	55
at 240 V / Rated value	kA	
at 415 V / Rated value		36
at 440 V / Rated value	kΑ	25
at 500 V / Rated value	kA kA	15
at 690 V / Rated value  Movimum short circuit aurent breaking conceits (lov)	kA	5
Maximum short-circuit current breaking capacity (Icu)	kΛ	55
• at 240 V / Rated value	kA kA	55
at 415 V / Rated value	kΑ	36
• at 440 V / Rated value	kA kA	25
at 500 V / Rated value	kA IsA	16
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 690 V / Rated value	kA	11.9

Connections				
Arrangement of electrical connectors				
• for main current circuit	Front 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			
Design of the electrical connection				
• for main current circuit	Lug terminal			

Mechanical Design				
Height	mm	130		
Width	mm	76.2		
Depth	mm	70		
Mounting type		fixed mounting		

Environmental conditions				
Ambient temperature				
<ul><li>during operation / minimum</li></ul>	°C	-25		
<ul><li>during operation / maximum</li></ul>	°C	70		
<ul><li>during storage / minimum</li></ul>	°C	-40		
<ul><li>during storage / maximum</li></ul>	°C	80		

#### Certificates Reference code • acc. to DIN EN 61346-2 Q

Q • acc. to DIN EN 81346-2

General Product Approval		EMC	Declaration of Conformity	Shipping Approval	other
<u> </u>		other			other









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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/3VA10404ED320AA0

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

http://support.automation.siemens.com/WW/view/en/3VA10404ED320AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA10404ED320AA0">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA10404ED320AA0</a>

**Tender specifications** http://ausschreibungstexte.siemens.com/tiplv

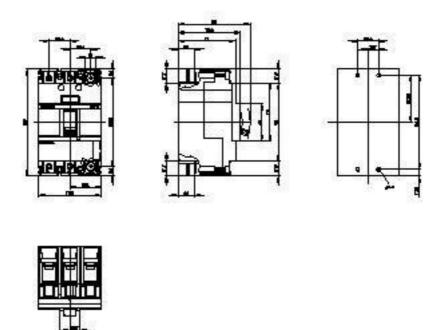


Figure similar

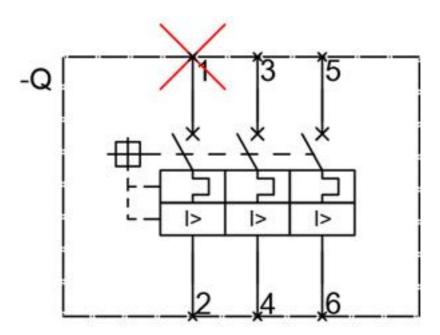


Figure similar

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