## **SIEMENS**

## Datasheet

## 3VA1010-3ED42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 100 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 4-POLE, LINE PROTECTION TM210, FTFM, IN=100A OVERLOAD PROTECTION IR=100A FIXED SHORT CIRCUIT PROTECTION II=10 X IN NEUTRAL UNPROTECTED BUSBAR CONNECTION

Figure similar

product brand nameSENTRONProduct designationMolded case circuit breakerDesign of the productLine protectionProduct variationsGeneral ApplicationsGround fault monitoring versionWithoutDesign of the auxiliary releaseWithout auxiliary release	
Design of the product     Line protection       Product variations     General Applications       Ground fault monitoring version     Without	
Product variations       General Applications         Ground fault monitoring version       Without	
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       1         value       1	
Trip class / of the L-trip / with I2t characteristic / Full-       1         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
Quitables consolts	_	
Switching capacity Switching capacity class of the circuit breaker	_	N
Dissipation		
Active power loss		
• maximum	W	25
Electricity		
Operating current / at 45 °C / Rated value	А	100
Continuous current / Rated value / maximum	А	100
Continuous current		
Rated value	А	100
Adjustable response value current		
<ul> <li>of the current-dependent overload release /</li> </ul>	А	1
Full-scale value		
• of the instantaneous short-circuit release / initial	A	10
value		4 600
Net weight	g	1 200
Main circuit		
Operating voltage		
• with AC / at 50/60 Hz / Rated value	V	690
<ul> <li>for DC / Rated value</li> </ul>	V	600
Operating current		
● at 40 °C / Rated value	А	100
● at 50 °C / Rated value	А	100
● at 55 °C / Rated value	А	98
• at 60 °C / Rated value	А	96
• at 65 °C / Rated value	А	94
• at 70 °C / Rated value	А	91
Auxiliary circuit		
Number of CO contacts		
<ul> <li>for auxiliary contacts</li> </ul>		0
Suitability		
Suitability for use		system protection
Adjustable parameters		
Adjustable response value current	А	10
of I-trip / Full-scale value		
• for N-conductor protection / initial value	A	0
<ul> <li>for N-conductor protection / Full-scale value</li> </ul>	A	0

Adjustable response value current / of the current-	А	1
dependent overload release / initial value		
ppearance		
Product details		
Product component		
Trip indicator		No
● display		No
Voltage trigger		No
undervoltage release		No
<ul> <li>undervoltage release with leading contact</li> </ul>		No
Product property	-	
• for neutral conductors /		No
upgradeable/retrofittable / Short-circuit and		
overload proof		
Product expansion		
• optional		
— 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
<ul> <li>other measurement function</li> </ul>		No
ccessories		
Manufacturer article number / of the supplied basic		3VA1010-3ED42-0AA0
switch		
hort circuit		
Operational short-circuit current breaking capacity (Ics)		
at 240 V / Rated value	kA	36
• at 415 V / Rated value	kA	25
• at 440 V / Rated value	kA	16
	kA	8
• at 500 V / Rated value	кА kA	o 5
at 690 V / Rated value  Maximum short-circuit current breaking capacity (Icu)		0
Maximum short-circuit current breaking capacity (Icu)	kA	36
at 240 V / Rated value	kA kA	25
• at 415 V / Rated value		
	kA	16
• at 440 V / Rated value	μA	0
<ul> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul>	kA kA	8 5

• at 240 V / Rated value	kA	75.6			
• at 415 V / Rated value	kA	52.5			
• at 690 V / Rated value	kA	7.5			
Connections					
Arrangement of electrical connectors					
<ul> <li>for main current circuit</li> </ul>		Front termin	al		
Type of connectable conductor cross-section					
<ul> <li>for flat-bar terminal connection / minimum</li> </ul>		12 x 0			
<ul> <li>for flat-bar terminal connection / maximum</li> </ul>		17 x 6.5	17 x 6.5		
Design of the electrical connection					
• for main current circuit		Lug terminal			
lechanical Design					
Height	mm	130			
Width	mm	101.6			
Depth	mm	70			
Mounting type		fixed mount	fixed mounting		
Invironmental 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			
• acc. to DIN EN 81346-2		Q			
General Product Approval EMC		eclaration of onformity	Shipping Approval	other	
	ther			other	
	(	F	GL		

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

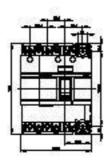
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA10103ED420AA0

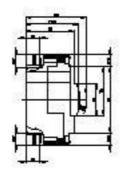
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA10103ED420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA10103ED420AA0

nup.//www.siemens.com/

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





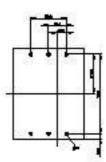




Figure similar



Figure similar

last modified:

21.10.2014