SIEMENS

Data sheet

3VA1120-3ED36-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 3-POLE, LINE PROTECTION TM210, FTFM, IN=20A OVERLOAD PROTECTION IR=20A FIXED SHORT CIRCUIT PROTECTION II=10 X IN CABLE 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	

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		
	tage	
Insulation voltage / Rated value V 800	sulation voltage / Rated value	V

Protection class

Protection class IP / on the front Protective function of the overcurrent release		IP40
Protective function of the overcurrent release		
		LI
Switching capacity		
Switching capacity class of the circuit breaker		N
Dissipation		
Active power loss		
• maximum	W	12
Electricity		
Continuous current / Rated value / maximum	А	160
Continuous current / Rated value	Α	20
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	500
Operating current		
• at 40 °C / Rated value	Α	20
● at 50 °C / Rated value	Α	20
• at 55 °C / Rated value	Α	20
• at 60 °C / Rated value	Α	19
• at 65 °C / Rated value	Α	19
• at 70 °C / Rated value	Α	19
Auxiliary circuit		
Number of CO contacts / for auxiliary contacts		0
Suitability		
Suitability for use		system protection
Adjustable parameters		
Adjustable response value current		
● of I-trip / Full-scale value	Α	10
• for N-conductor protection / initial value	Α	0
• for N-conductor protection / Full-scale value	Α	0
Adjustable response value current / of the current- dependent overload release / initial value	Α	1
Product details		
Product component		

Trip indicator		No
·		No
• display		No
Voltage trigger		No
undervoltage release		
undervoltage release with leading contact		No
Product property		No
 for neutral conductors / upgradeable/retrofittable / Short-circuit and 		INO
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		3VA1120-3ED36-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity		
(lcs)		
• at 240 V / Rated value	kA	36
• at 415 V / Rated value	kA	25
• at 440 V / Rated value	kA	16
• at 500 V / Rated value	kA	8
• at 690 V / Rated value	kA	5
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	36
● at 415 V / Rated value	kA	25
● at 440 V / Rated value	kA	16
at 500 V / Rated value	kA	8
	KA	8
• at 690 V / Rated value	kA	7
• at 690 V / Rated value Short-circuit current making capacity (Icm)		
Short-circuit current making capacity (lcm)	kA	7
Short-circuit current making capacity (lcm) • at 240 V / Rated value	kA kA	7 75.6
Short-circuit current making capacity (Icm) • at 240 V / Rated value • at 415 V / Rated value • at 690 V / Rated value Connections	kA kA kA	7 75.6 52.5 7.5
Short-circuit current making capacity (Icm) • at 240 V / Rated value • at 415 V / Rated value • at 690 V / Rated value Connections Arrangement of electrical connectors / for main	kA kA kA	7 75.6 52.5
Short-circuit current making capacity (Icm) • at 240 V / Rated value • at 415 V / Rated value • at 690 V / Rated value Connections	kA kA kA	7 75.6 52.5 7.5

of the round conductor terminal / stranded					1 x (1.5 - 70 mm²)	
Type of electrical connect	cal connection / for main current circuit				Box terminal	
Mechanical Design						
Height			mm		130	
Width			mm		76.2	
Depth	*****		mm		70.2	
Mounting type					fixed mounting	
Woulding type	Mounting type					
Environmental condition	S					
Ambient temperature						
during operation / minimum		°C		-25		
during operation / maximum		°C		70		
during storage / minimum		°C		-40		
• during storage / max	ximum		°C		80	
Certificates						
Equipment marking						
• acc. to DIN EN 61346-2				Q		
• acc. to DIN EN 81346-2				Q		
General El	МС	Declaration	n of	Ship	pping Approval	other
Product		Conformity	,			

Further information

Approval

Information- and Downloadcenter (Catalogs, Brochures,...)

other

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11203ED360AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11203ED360AA0/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11203ED360AA0

CAx-Online-Generator

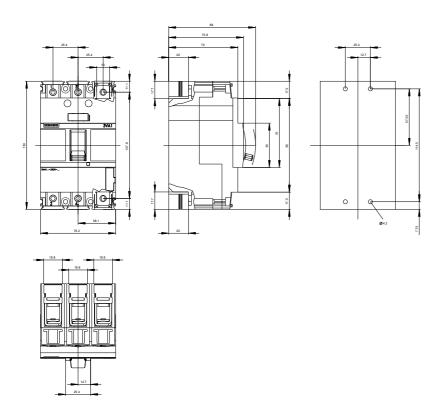
http://www.siemens.com/cax

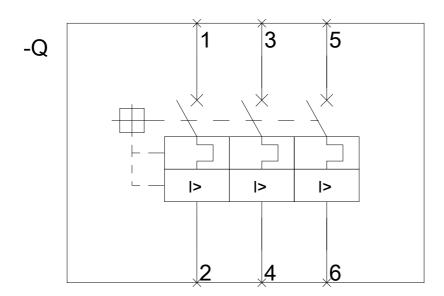
Tender specifications

http://ausschreibungstexte.siemens.com/tiplv

other

GL





last modified: 11.03.2015