SIEMENS

Data sheet



3VA2010-7HN42-0AA0

CIRCUIT BREAKER 3VA2 IEC FRAME 100 BREAKING CAPACITY CLASS C ICU=110KA @ 415 V 4POLE, LINE PROTECTION ETU350, LSI, IN=100A OVERLOAD PROTECTION IR=40A ...100A SHORT CIRCUIT PROTECTION ISD=1,5... 10 X IR, II=12 X IN NEUTRAL PROTECTION ADJUSTABLE(OFF,50%,100%) BUSBAR CONNECTION

Model		
product brand name		SENTRON
Product designation		Molded case circuit breaker
Design of the product		Line protection
Product variations		Selective Applications
Ground fault monitoring version		Without
Design of the auxiliary release		without auxiliaryrelease
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		ETU350
General technical data		
Number of poles		4
Trip class / of the L-trip / with I2t characteristic / initial value		0.5
Trip class / of the L-trip / with I2t characteristic / Full- scale value		17
Electrical endurance (switching cycles)		
• at AC-1 / at 380/415 V / at 50/60 Hz		12 000
circuit-breaker / Design		3VA
Mechanical service life (switching cycles) / typical		20 000
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	-	LSI
		1.51
Switching capacity		
Switching capacity class of the circuit breaker		C
Dissipation		
Active power loss		
• maximum	W	13.5
Electricity		
Continuous current / Rated value / maximum	А	100
Continuous current / Rated value	А	100
Adjustable response value current / of the	А	12
instantaneous short-circuit release / initial value		
Main circuit		
Operating voltage		
• with AC / at 50/60 Hz / Rated value	V	690
Operating current	_	
● at 40 °C / Rated value	А	100
● at 50 °C / Rated value	А	100
● at 60 °C / Rated value	А	100
● at 65 °C / Rated value	А	100
• at 70 °C / Rated value	А	100
Auxiliary circuit	_	
Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts	_	0
-		
Suitability Suitability for use	_	system protection
		System protection
Adjustable parameters		
Adjustable response value current		
 of I-trip / Full-scale value 	A	12
 of the short-time delayed short-circuit release / initial value 	A	1.5
 of the short-time delayed short-circuit release / Full-scale value 	A	10
Adjustable delay time		
• of S-trip / with I2t characteristic / initial value	S	0.02
 of S-trip / with I2t characteristic / Full-scale value 	S	0.4
Adjustable response value current / of the current- dependent overload release / initial value	A	0.4

Product details		
Product component		
• Trip indicator		No
• display		No
undervoltage release		No
Product property	-	
 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
Phase failure detection		No
 other measurement function 		No
Accessories		
Manufacturer article number / of the supplied basic switch		<u>3VA2010-7HN42-0AA0</u>
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)		
• at 240 V / Rated value	kA	150
• at 415 V / Rated value	kA	110
• at 440 V / Rated value	kA	110
• at 500 V / Rated value	kA	85
• at 690 V / Rated value	kA	2
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	150
• at 415 V / Rated value	kA	110
• at 440 V / Rated value	kA	110
• at 500 V / Rated value	kA	85
• at 690 V / Rated value	kA	2
Short-circuit current making capacity (Icm)		
• at 240 V / Rated value	kA	330
• at 415 V / Rated value	kA	242
• at 440 V / Rated value	kA	242
• at 500 V / Rated value	kA	187
• at 690 V / Rated value	kA	3

Acchanical Design Height mm 181 Width mm 140 Depth mm 107 Mounting type fixed mounting invironmental conditions fixed mounting Ambient temperature • during operation / minimum °C -25 • during operation / maximum °C 70 • during storage / minimum °C -40 • during storage / maximum °C 80	
• for flat-bar terminal connection / maximum25 x 8.5Type of electrical connection / for main current circuitLug terminalAechanical Designmm181Heightmm140Depthmm107Mounting typefixed mountingenvironmental conditions-25Ambient temperature • during operation / minimum°C-25-25-25-25-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40-25-40 <t< td=""><td></td></t<>	
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• during storage / maximum °C 80 Certificates	
Certificates	
Equipment marking	
• acc. to DIN EN 61346-2 Q	
• acc. to DIN EN 81346-2 Q	
General Product Approval EMC Declaration of Shipp	oing
Conformity Appre	oval
CCC VDE EFFC other CFC DN	

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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/3VA20107HN420AA0

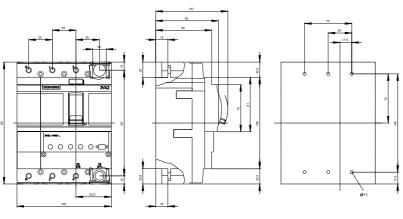
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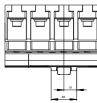
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA20107HN420AA0

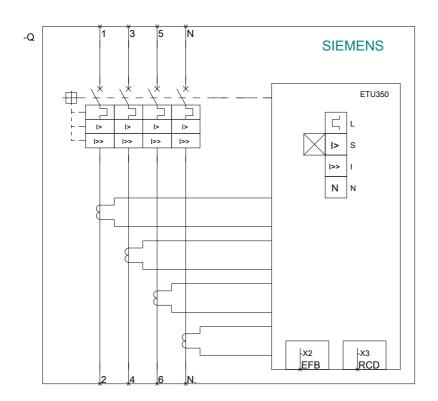
CAx-Online-Generator

http://www.siemens.com/cax

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







last modified:

11.03.2015