SIEMENS

Data sheet

3VA2163-7HN32-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS C ICU=110KA @ 415 V 3POLE, LINE PROTECTION ETU350, LSI, IN=63A OVERLOAD PROTECTION IR=25A ...63A SHORT CIRCUIT PROTECTION ISD=1,5... 10 X IR, II=12 X IN 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		3
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 / on the front IP40 Protective function of the overcurrent release LSI Switching capacity C Dissipation C Active power loss • • maximum W 4 60 Continuous current / Rated value / maximum A 6 63 Adjustable response value current / of the A instantaneous short-circuit release / initial value A Operating voltage • • with AC / at 50/60 Hz / Rated value A • at 40 °C / Rated value A • at 65 °C / Rated value A • at 65 °C / Rated value A • at 70 °C / Rated value 0 Number of NC contacts / for auxillary contacts 0 Number of NC contacts / for auxillary contacts 0 Suitability Suitability for use system protection Adjustable response value current • 0 <	IP40 LSI C W 4 A 160 A 63
Protective function of the overcurrent release LSI Switching capacity Switching capacity class of the circuit breaker C Dissipation Active power loss N • maximum W 4 Electricity Continuous current / Rated value / maximum A Continuous current / Rated value / maximum A 160 Continuous current / Rated value / maximum A 63 Adjustable response value current / of the instantaneous short-circuit release / initial value A 12 Main circuit V 690 Operating voltage • • with AC / at 50/60 Hz / Rated value V 690 690 Operating current • at 40 °C / Rated value A 63 - - - • at 40 °C / Rated value A 63 -	LSI C W 4 A 160 A 63
Switching capacity Switching capacity class of the circuit breaker C Dissipation C Active power loss V • maximum W 4 Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value / maximum A 160 Continuous current / Rated value A 63 Adjustable response value current / of the instantaneous short-circuit release / initial value A 12 Main circuit V 690 Operating voltage V 690 • with AC / at 50% D Hz / Rated value V 690 Operating current A 63 • at 40 °C / Rated value A 63 • at 50 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value D 63 <	C W 4 A 160 A 63
Switching capacity class of the circuit breaker C Dissipation Active power loss W 4 Electricity W 4 Continuous current / Rated value / maximum A 160 Continuous current / Rated value A 63 Adjustable response value current / of the instantaneous short-circuit release / initial value A 12 Main circuit Operating voltage V 690 Operating voltage V 690 63 • with AC / at 50/60 Hz / Rated value V 690 63 Operating current A 63 63 • at 40 °C / Rated value A 63 63 • at 60 °C / Rated value A 63 63 • at 60 °C / Rated value A 63 63 • at 70 °C / Rated value A 63 63 • at 70 °C / Rated value A 63 63 • at 70 °C / Rated value A 63 63 • at 70 °C / Rated value A 63 63 • at 70 °C / Rated value A 63 70	W 4 A 160 A 63
Dissipation Active power loss • maximum W 4 Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value A Adjustable response value current / of the instantaneous short-circuit release / initial value 12 Main circuit Operating voltage • with AC / at 50/60 Hz / Rated value V 690 Operating current 63 • at 40 °C / Rated value A 63 • at 40 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value 0 Number of NC contacts / for auxiliary contacts Number of NC contacts / for auxiliary contacts 0 0 Number of NO contacts / for auxiliary contacts 0 0 Suitability system	W 4 A 160 A 63
Active power loss W 4 Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value A 63 Adjustable response value current / of the instantaneous short-circuit release / initial value A 12 Main circuit Operating voltage V 690 • with AC / at 50/60 Hz / Rated value V 690 Operating current at 40 °C / Rated value V 690 • at 40 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • Demoter of NC contacts / for auxiliary contacts 0 Number of NC contacts / for auxiliary contacts 0 Suitability Suitability for use system protection Adjustable parameters Adjustable response value current A 12 <td>A 160 A 63</td>	A 160 A 63
• maximum W 4 Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value A 63 Adjustable response value current / of the instantaneous short-circuit release / initial value A 12 Main circuit Operating voltage • • with AC / at 50/60 Hz / Rated value V 690 Operating current 63 • at 40 °C / Rated value A 63 • at 40 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 65 °C / Rated value A 63 • at 65 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 67 °C / Rated value A 63 • at 67 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value B <	A 160 A 63
Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value A 63 Adjustable response value current / of the instantaneous short-circuit release / initial value A 12 Main circuit V 690 Operating voltage v 690 • with AC / at 50/60 Hz / Rated value V 690 Operating current - - • at 40 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 65 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • Suitability O O Suitability Suitability for use system protection Adjustable response value current A 12	A 160 A 63
Continuous current / Rated value / maximum A 160 Continuous current / Rated value A 63 Adjustable response value current / of the instantaneous short-circuit release / initial value A 12 Main circuit Operating voltage Image: Contend of the contend	A 63
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Adjustable response value current / of the instantaneous short-circuit release / initial value A 12 Main circuit Operating voltage v 690 Operating oursent V 690 • at 40 °C / Rated value V 690 Operating current A 63 • at 40 °C / Rated value A 63 • at 50 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value O Number of NC contacts / for auxiliary contacts O Number of NO contacts / for auxiliary contacts O O Suitability Sustem protection Adjustable parameters Adjustable response value current A 12	
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Main circuit Operating voltage 690 • with AC / at 50/60 Hz / Rated value V 690 Operating current 63 • at 40 °C / Rated value A 63 • at 50 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 65 °C / Rated value A 63 • at 65 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • Dumber of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Suitability Sustable parameters Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A 12	
Operating voltage V 690 • with AC / at 50/60 Hz / Rated value V 690 Operating current	
• with AC / at 50/60 Hz / Rated value V 690 Operating current - • at 40 °C / Rated value A 63 • at 50 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 65 °C / Rated value A 63 • at 65 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • Description 0 0 Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Suitability system protection Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A 12	
Operating current A 63 • at 40 °C / Rated value A 63 • at 50 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 65 °C / Rated value A 63 • at 65 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value O O Number of NC contacts / for auxiliary contacts 0 Suitability Suitability Suitability Suitability system protection Adjustable parameters A 12	
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• at 50 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 65 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 Auxiliary circuit 0 0 Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Suitability Suitability for use system protection Adjustable parameters A 12	
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e at 65 °C / Rated value A 63 e at 70 °C / Rated value A 63 Auxiliary circuit A 63 Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Suitability 0 Suitability system protection Adjustable parameters A Adjustable response value current A • of I-trip / Full-scale value A	A 63
• at 70 °C / Rated value A 63 Auxiliary circuit 0 Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Suitability system protection Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A 12	A 63
• at 70 °C / Rated value A 63 Auxiliary circuit 0 Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Suitability system protection Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A 12	A 63
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Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Suitability 0 Suitability for use system protection Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A	
Number of NO contacts / for auxiliary contacts 0 Suitability Suitability for use Suitability for use system protection Adjustable parameters Adjustable response value current of I-trip / Full-scale value A 12 	0
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Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A	
Adjustable response value current A 12	system protection
of I-trip / Full-scale value A 12	
	A 12
of the short-time delayed short-circuit release / A 1.5 initial value	ase / A 1.5
of the short-time delayed short-circuit release / A 10 Full-scale value	ase / A 10
Adjustable delay time	
• of S-trip / with I2t characteristic / initial value s 0.02	ie s 0.02
of S-trip / with I2t characteristic / Full-scale s 0.4 value	
Adjustable response value current / of the current- A 0.397 dependent overload release / initial value A 0.397	

Product details		
Product component		
Trip indicator		No
● display		No
 undervoltage release 		No
Product property		
 for neutral conductors / 		No
upgradeable/retrofittable / Short-circuit and		
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		3VA2163-7HN32-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)		450
• 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	2.5
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	2.5
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	3.75
Connections		

		<u>other</u>	EG-Konf.		
		- 11	Conformity	Approval	
General Product Approval		EMC	Declaration of	Shipping	
• acc. to DIN EN 81346-2		Q			
• acc. to DIN EN 61346-2		Q			
Equipment marking					
ertificates					
 during storage / maximum 	°C	80			
 during storage / minimum 	°C	-40			
 during operation / maximum 	°C	70			
 during operation / minimum 	°C	-25			
Ambient temperature					
nvironmental conditions					
Mounting type		fixed mount	ung		
Depth Mounting type	mm	107 fixed mount	line		
Width	mm	105			
Height	mm	181			
lechanical Design					
Type of electrical connection / for main current circuit		Lug termina	al		
for flat-bar terminal connection / maximum	_		25 x 8.5		
 for flat-bar terminal connection / minimum 			13 x 1 mm		
Type of connectable conductor cross-section					
current circuit					

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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/3VA21637HN320AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21637HN320AA0/all

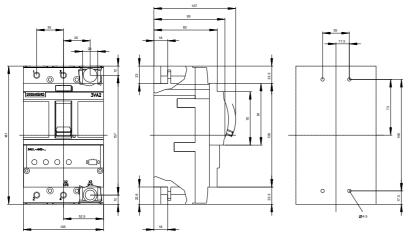
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA21637HN320AA0

CAx-Online-Generator

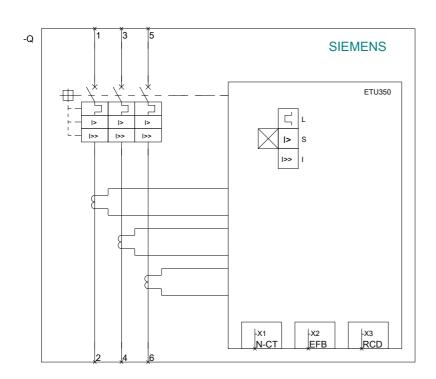
http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv







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