SIEMENS

Data sheet

3VA2063-8HN32-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 100 BREAKING CAPACITY CLASS L ICU=150KA @ 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

Figure similar

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 datas IP / on the front IP40 Switching capacity Status IP / on the front Switching capacity IP40 Continuous current / Rated value / maximum A Adjustable response value current / of the instantaneous short-circuit release / initial value A Operating current at 40° C / Rated value A • 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 <th>Protection class IP</th> <th>-</th> <th>IP40</th>	Protection class IP	-	IP40
Protective function of the overcurrent release LSI Switching capacity E Switching capacity class of the circuit breaker L Dissipation E Active power loss • • maximum W 3 Electricity Continuous current / Rated value / maximum A 100 Continuous current / Rated value A 63 Adjustable response value current / of the instantaneous short-circuit release / initial value A 12 Main circuit Operating voltage • 690 • with AC / at 50/60 Hz / Rated value V 690 Operating voltage • 63 63 • at 40 °C / Rated value A 63 63 • at 65 °C / Rated value A 63 63 • at 65 °C / Rated value A 63 63 • at 65 °C / Rated value A 63 63 • at 65 °C / Rated value A 63 3 • at 65 °C / Rated value A 63 3 • at 65 °C / Rated value A 63 3 •			
Switching capacity Switching capacity class of the circuit breaker L Dissipation Adive power loss Image: Continuous current / Rated value / maximum Adive power loss Image: Continuous current / Rated value / maximum A 100 Continuous current / Rated value / maximum A 100 Continuous current / Rated value / maximum A 100 Continuous current / Rated value A 63 Adjustable response value current / of the instantaneous short-circuit release / initial value A 12 Main circuit Coperating voltage V 690 Operating outrant A 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 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 12			
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Dissipation Active power loss w • maximum W 3 Electricity Continuous current / Rated value / maximum A 100 Continuous current / Rated value / maximum A 63 Adjustable response value current / of the instantaneous short-circuit release / initial value A 63 Main circuit Operating voltage • 690 Operating voltage • with AC / at 50/60 Hz / Rated value V 690 690 Operating current • at 40 °C / Rated value A 63 63 • at 50 °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 10 10 Number of NO contacts / for auxiliary contacts 0 1.5	Switching capacity		
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Main circuit Operating voltage • with AC / at 50/60 Hz / Rated value V 690 Operating current	Adjustable response value current / of the	А	12
Operating voltage v 690 Operating current	instantaneous short-circuit release / initial value		
• 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 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 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 • of I-trip / Full-scale value A 12 • of the short-time delayed short-circuit release / initial value A 10 • of the short-time delayed short-circuit release / Full-scale value A 10 Adjustable delay time s 0.02 0.4	Main circuit		
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• 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 Auxiliary circuit A 63 Auxiliary circuit 0 0 Number of NC contacts / for auxiliary contacts 0 0 Suitability 0 0 Suitability or use system protection 0 Adjustable parameters A 12 • of 1-trip / Full-scale value A 1.5 • of the short-time delayed short-circuit release / initial value A 10 • of the short-time delayed short-circuit release / Full-scale value A 10 • of the short-time delayed short-circuit release / initial value A 0.02 • of S-trip / with 12t characteristic / initial value S 0.02 • of S-trip / with 12t characteristic / Full-scale S 0.4	● at 40 °C / Rated value	А	63
• at 65 °C / Rated value A 63 • at 70 °C / Rated value A 63 • 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 • of the short-time delayed short-circuit release / initial value A • of the short-time delayed short-circuit release / Full-scale value A • of the short-time delayed short-circuit release / Full-scale value A • of S-trip / with 12t characteristic / initial value s 0.02 • of S-trip / with 12t characteristic / Full-scale s 0.4	● at 50 °C / Rated value	А	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 0 Suitability system protection Adjustable parameters 4 Adjustable response value current A • of the short-time delayed short-circuit release / initial value A • of the short-time delayed short-circuit release / Full-scale value A • of the short-time delayed short-circuit release / initial value A • of the short-time delayed short-circuit release / Full-scale value A • of the short-time delayed short-circuit release / Full-scale value A • of the short-time delayed short-circuit release / Full-scale value A • of the short-time delayed short-circuit release / Full-scale value A • of the short-time delayed short-circuit release / Full-scale value A • of the short-time delayed short-circuit release / Full-scale value A • of S-trip / with 12t characteristic / initial value s 0.02 • of S-trip / with 12t characteristic / Full-scale s 0.4	● at 60 °C / Rated value	А	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 0 Suitability system protection Adjustable parameters 4 Adjustable response value current A • of the short-time delayed short-circuit release / initial value A • of the short-time delayed short-circuit release / Full-scale value A • of the short-time delayed short-circuit release / initial value A • of the short-time delayed short-circuit release / Full-scale value A • of the short-time delayed short-circuit release / Full-scale value A • of the short-time delayed short-circuit release / Full-scale value A • of the short-time delayed short-circuit release / Full-scale value A • of the short-time delayed short-circuit release / Full-scale value A • of the short-time delayed short-circuit release / Full-scale value A • of S-trip / with 12t characteristic / initial value s 0.02 • of S-trip / with 12t characteristic / Full-scale s 0.4	• at 65 °C / Rated value	А	63
Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Suitability 0 Suitability system protection Adjustable parameters Adjustable parameters Adjustable response value current A • of 1-trip / Full-scale value A • of the short-time delayed short-circuit release / initial value A • of the short-time delayed short-circuit release / Full-scale value A • of strip / with 12t characteristic / initial value S • of S-trip / with 12t characteristic / Full-scale S • of S-trip / with 12t characteristic / Full-scale S	• at 70 °C / Rated value	А	63
Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Suitability 0 Suitability system protection Adjustable parameters Adjustable parameters Adjustable response value current A • of 1-trip / Full-scale value A • of the short-time delayed short-circuit release / initial value A • of the short-time delayed short-circuit release / Full-scale value A • of strip / with 12t characteristic / initial value S • of S-trip / with 12t characteristic / Full-scale S • of S-trip / with 12t characteristic / Full-scale S	Auxiliary circuit	_	
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Full-scale value s 0.02 • of S-trip / with I2t characteristic / Full-scale s 0.4		A	1.5
of S-trip / with 12t characteristic / initial value of S-trip / with 12t characteristic / Full-scale s 0.02 0.4	-	A	10
• of S-trip / with I2t characteristic / Full-scale s 0.4	Adjustable delay time		
	• of S-trip / with I2t characteristic / initial value	S	0.02
		S	0.4
Adjustable response value current / of the current- A 0.397 dependent overload release / initial value A 0.397		A	0.397

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>3VA2063-8HN32-0AA0</u>
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)		
• at 240 V / Rated value	kA	200
• at 415 V / Rated value	kA	150
• at 440 V / Rated value	kA	150
• at 500 V / Rated value	kA	100
• at 690 V / Rated value	kA	18
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	200
• at 415 V / Rated value	kA	150
 at 440 V / Rated value 	kA	150
• at 500 V / Rated value	kA	100
• at 690 V / Rated value	kA	24
Short-circuit current making capacity (Icm)		
• at 240 V / Rated value	kA	440
• at 415 V / Rated value	kA	330
• at 440 V / Rated value	kA	330
● at 500 V / Rated value	kA	220
• at 690 V / Rated value	kA	48
Connections		

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Acchanical Design Height mm 181 Width mm 105 Depth mm 107 Mounting type fixed mounting Environmental conditions C -25 Ambient temperature -25 • during operation / minimum °C -25 • during operation / maximum °C -25 • during storage / minimum °C -40 • during storage / maximum °C 80 Certificates Equipment marking Q	25 x 8.5 Lug terminal mm 181 mm 105 mm 107 fixed mounting °C -25 °C 70 °C 70 °C 40 °C 80 EMC Q Q Q Declaration of Conformity Shipping Approval	25 x 8.5 Lug terminal 181 105 107		
• for flat-bar terminal connection / maximum 25 x 8.5 Type of electrical connection / for main current circuit Lug terminal Aechanical Design mm 181 Width mm 105 Depth mm 107 Mounting type fixed mounting environmental conditions fixed mounting Amblent temperature °C -25 • during operation / minimum °C 70 • during storage / minimum °C 40 • during storage / maximum °C 80	25 x 8.5 Lug terminal mm 181 mm 105 mm 107 fixed mounting °C -25 °C 70 °C -40 °C 80 Peclaration of Conformity Q Q Q Conformity Approval	25 x 8.5 Lug terminal 181 105 107	1	
Type of electrical connection / for main current circuit Lug terminal Aechanical Design mm 181 Width mm 105 Depth mm 107 Mounting type fixed mounting Environmental conditions C -25 Ambient temperature °C -25 • during operation / minimum °C 70 • during storage / minimum °C -40 • during storage / maximum °C 80 Certificates Q	Imm 181 mm 105 mm 107 fixed mounting °C -25 °C 70 °C 70 °C 40 °C 80	Lug terminal 181 105 107		
Acchanical Design Height mm 181 Width mm 105 Depth mm 107 Mounting type fixed mounting Environmental conditions C -25 Ambient temperature -25 • during operation / minimum °C -25 • during operation / maximum °C -25 • during storage / minimum °C -40 • during storage / maximum °C 80 Certificates Equipment marking Q	mm 181 mm 105 mm 107 fixed mounting °C -25 °C 70 °C -40 °C -40 °C 80	181 105 107	l 	
Height mm 181 Width mm 105 Depth mm 107 Mounting type fixed mounting Environmental conditions fixed mounting Ambient temperature °C -25 • during operation / minimum °C 70 • during storage / minimum °C -40 • during storage / minimum °C 80 Certificates Equipment marking Q	mm 105 mm 107 fixed mounting fixed mounting °C -25 °C 70 °C -40 °C 80 Q	105 107		
Widthmm105Depthmm107Mounting typefixed mountingEnvironmental conditionsfixed mountingEnvironmental conditions°C-25Ambient temperature • during operation / minimum°C70• during operation / maximum°C70• during storage / minimum°C80• curtificatesEquipment marking • acc. to DIN EN 61346-2Q	mm 105 mm 107 fixed mounting fixed mounting °C -25 °C 70 °C 70 °C -40 °C 80	105 107		
Depthmm107Mounting typefixed mountingEnvironmental conditionsAmbient temperature• during operation / minimum°C• during operation / maximum°C• during storage / minimum°C• during storage / minimum°C• during storage / maximum°C• during storage / maximum• during storage / maximu	mm 107 fixed mounting °C -25 °C 70 °C -40 °C 80 Q Q Q EMC Declaration of Conformity Shipping Approval €ther € € €	107		
Mounting typefixed mountingEnvironmental conditionsAmbient temperature• during operation / minimum°C• during operation / maximum°C• during storage / minimum°C• during storage / maximum°C• during storage / maxi	fixed mounting °C -25 °C 70 °C -40 °C 80			
Environmental conditions Ambient temperature °C -25 • during operation / minimum °C 70 • during operation / maximum °C 70 • during storage / minimum °C -40 • during storage / maximum °C 80	°C -25 °C 70 °C -40 °C 80 °C 80 Q Q Q EMC Declaration of Shipping Approval Conformity Approval	fixed mount		
Ambient temperature °C -25 • during operation / minimum °C 70 • during operation / maximum °C 70 • during storage / minimum °C -40 • during storage / maximum °C 80 Certificates Equipment marking Q	°C 70 °C -40 °C 80	lixed mountil	ng	
• during operation / minimum°C-25• during operation / maximum°C70• during storage / minimum°C-40• during storage / maximum°C80• certificates	°C 70 °C -40 °C 80			
 during operation / maximum during operation / maximum °C 70 °C -40 °C 80 Certificates Equipment marking acc. to DIN EN 61346-2 Q 	°C 70 °C -40 °C 80			
 during storage / minimum during storage / maximum °C -40 °C 80 Certificates Equipment marking acc. to DIN EN 61346-2 Q 	°C -40 °C 80 Q Q Q EMC Declaration of Shipping Approval Other € € € €	-25		
• during storage / maximum • during storage / maximum • C 80 Certificates Equipment marking • acc. to DIN EN 61346-2 Q	°C 80 Q Q Q C O C O C O C O C O C O C O C O C	70		
Certificates Equipment marking • acc. to DIN EN 61346-2 Q	Q Q Q EMC Declaration of Conformity Approval other C C C C	-40		
Equipment marking Q • acc. to DIN EN 61346-2 Q	Q EMC Declaration of Conformity Shipping Approval other Conformity Approval	80		
• acc. to DIN EN 61346-2 Q	Q Declaration of Conformity Shipping Approval other Conformity Approval			
	Q Declaration of Conformity Shipping Approval other Conformity Approval			
	EMC Declaration of Conformity Approval	Q		
• acc. to DIN EN 81346-2 Q	Conformity Approval other Cefee Other Image: Cefee	Q		
General Product Approval EMC Declaration of Shipping	other CE	MC	Declaration of	Shipping
Conformity Approva			Conformity	Approval
(\mathfrak{m}) \mathcal{M}_{E} $[\mathrm{H}]$ (\mathfrak{m}) (\mathfrak{m})	EG-KONT. DNV	other	EG-Konf.	
Shipping other				

GL

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/3VA20638HN320AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA20638HN320AA0/all

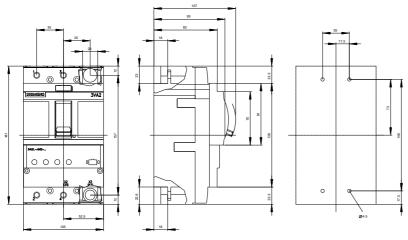
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA20638HN320AA0

CAx-Online-Generator

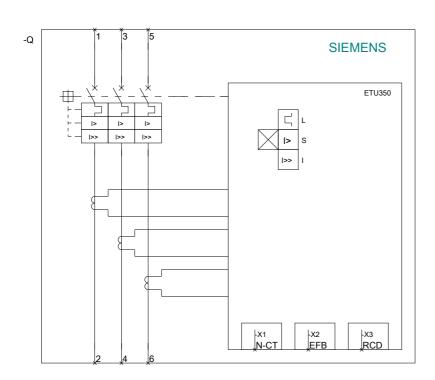
http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv







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11.03.2015