SIEMENS

Data sheet



3VA2125-8HN42-0AA0

CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS L ICU=150KA @ 415 V 4POLE, LINE PROTECTION ETU350, LSI, IN=25A OVERLOAD PROTECTION IR=10A ...25A SHORT CIRCUIT PROTECTION ISD=1,5... 10 X IR, II=12 X IN NEUTRAL PROTECTION ADJUSTABLE(OFF,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
		201
Switching capacity		
Switching capacity class of the circuit breaker		L
Dissipation		
Active power loss		
• maximum	W	0.5
Electricity		
Continuous current / Rated value / maximum	А	160
Continuous current / Rated value	А	25
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	25
● at 50 °C / Rated value	А	25
● at 60 °C / Rated value	А	25
● at 65 °C / Rated value	А	25
• at 70 °C / Rated value	А	25
Auxiliary circuit		
Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts		0
0.26122		
Suitability Suitability for use		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>3VA2125-8HN42-0AA0</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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International DesignHeightmm181Widthmm140Depthmm107Mounting typefixed mountingInvironmental conditionsSecond Second Se	
• for flat-bar terminal connection / maximum25 x 8.5Type of electrical connection / for main current circuitLug terminalAcchanical Designmm181Widthmm140Depthmm107Mounting typefixed mountingcirvironmental conditionssAmbient temperature°C-25• during operation / minimum°C70• during storage / minimum°C40• during storage / maximum°C80	
Type of electrical connection / for main current circuitLug terminalMechanical Designmm181Heightmm140Widthmm107Depthmm107Mounting typefixed mountingEnvironmental conditions	
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Heightmm181Widthmm140Depthmm107Mounting typefixed mountingEnvironmental conditionsfixed mountingAmbient temperature • during operation / minimum°C-25• during operation / maximum°C70• during storage / minimum°C-40• during storage / maximum°C80	
Widthmm140Depthmm107Mounting typefixed mountinginvironmental conditionsfixed mountingAmbient temperature • during operation / minimum°C-25• during operation / maximum°C70• during storage / minimum°C-40• during storage / maximum°C80	
Depthmm107Mounting typefixed mountingInvironmental conditionsfixed mountingAmbient temperature°C• during operation / minimum°C• during operation / maximum°C• during storage / minimum°C• during storage / maximum°C• during storage / maximum°C• C80	
Mounting type fixed mounting nvironmental conditions nvironmental conditions Ambient temperature °C -25 • during operation / minimum °C 70 • during storage / minimum °C -40 • during storage / maximum °C 80	
Invironmental 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	
Ambient temperature°C-25• during operation / minimum°C70• during operation / maximum°C70• during storage / minimum°C-40• during storage / maximum°C80	
• during operation / minimum°C-25• during operation / maximum°C70• during storage / minimum°C-40• during storage / maximum°C80	
 during operation / maximum during operation / maximum during storage / minimum during storage / maximum °C 80 	
 during storage / minimum during storage / maximum °C -40 °C 80 	
• during storage / maximum °C 80	
Certificates	
Equipment marking	
• acc. to DIN EN 61346-2 Q	
• acc. to DIN EN 81346-2 Q	
General Product Approval EMC Declaration of S	Shipping
Conformity A	Approval
CCC VDE EFFC other CFC	

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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/3VA21258HN420AA0

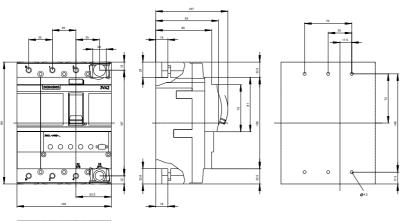
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21258HN420AA0/all

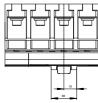
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA21258HN420AA0

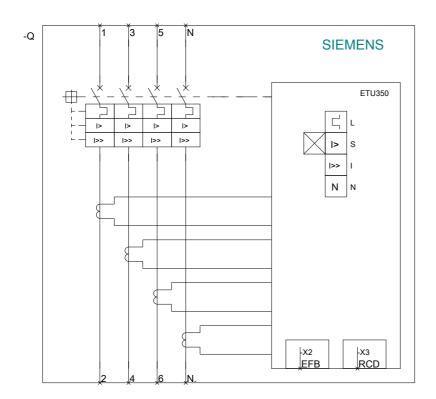
CAx-Online-Generator

http://www.siemens.com/cax

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







last modified:

11.03.2015