SIEMENS

Data sheet

3VA2116-5HN36-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 3POLE, LINE PROTECTION ETU350, LSI, IN=160A OVERLOAD PROTECTION IR=64A ...160A SHORT CIRCUIT PROTECTION ISD=1,5... 10 X IR, II=10 X IN CABLE 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	-	IP40
Protection class IP / on the front	_	IP40
Protective function of the overcurrent release		LSI
Switching capacity		
Switching capacity class of the circuit breaker		Μ
Dissipation		
Active power loss		
• maximum	W	25.5
Electricity		
Continuous current / Rated value / maximum	А	160
Continuous current / Rated value	А	160
Adjustable response value current / of the	А	10
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	160
● at 50 °C / Rated value	А	160
● at 60 °C / Rated value	А	160
• at 65 °C / Rated value	А	160
• at 70 °C / Rated value	A	160
Auxiliary circuit	_	
Number of NC contacts / for auxiliary contacts	_	0
Number of NO contacts / for auxiliary contacts	_	0
		0
Suitability		
Suitability for use		system protection
Adjustable parameters		
Adjustable response value current		
 of I-trip / Full-scale value 	А	10
 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	0.394

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	_	3VA2116-5HN36-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity		
(lcs)		65
• at 240 V / Rated value	kA	85
• at 415 V / Rated value	kA	55
• at 440 V / Rated value	kA	55
• at 500 V / Rated value	kA	36
• at 690 V / Rated value	kA	2.5
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	85
• at 415 V / Rated value	kA	55
• at 440 V / Rated value	kA	55
• at 500 V / Rated value	kA	36
• at 690 V / Rated value	kA	2.5
Short-circuit current making capacity (Icm)		
• at 240 V / Rated value	kA	187
● at 415 V / Rated value	kA	121
• at 440 V / Rated value	kA	121
 at 500 V / Rated value 	kA	79
• at 690 V / Rated value	kA	3.75

Arrangement of electrical connectors / for main current circuit		Front termin	al		
Type of connectable conductor cross-section					
 of the round conductor terminal / stranded 		1 x (6-120 m	nm²)		
Type of electrical connection / for main current circuit		Box termina	Box terminal		
Mechanical Design					
Height	mm	181			
Width	mm	105			
Depth	mm	107			
Mounting type		fixed mounti	fixed mounting		
Environmental conditions					
Ambient temperature					
 during operation / minimum 	°C	-25			
 during operation / maximum 	°C	70			
 during storage / minimum 	°C	-40			
 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	E	MC	Declaration of Conformity	Shipping Approval	
		<u>other</u>	EG-Konf.	ĴÅ DNV DNV	
Shipping other Approval					

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Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

other

Industry Mall (Online ordering system)

https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA21165HN360AA0

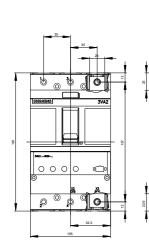
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21165HN360AA0/all

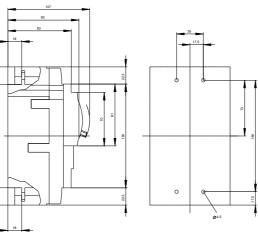
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA21165HN360AA0

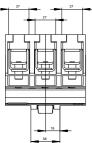
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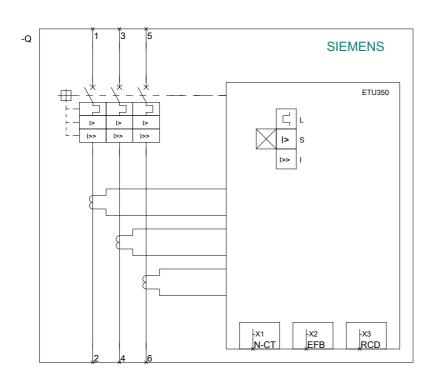
http://www.siemens.com/cax

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









last modified:

11.03.2015