SIEMENS

Data sheet

3VA2116-7HN46-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS C ICU=110KA @ 415 V 4POLE, LINE PROTECTION ETU350, LSI, IN=160A OVERLOAD PROTECTION IR=64A ...160A SHORT CIRCUIT PROTECTION ISD=1,5... 10 X IR, II=10 X IN **NEUTRAL PROTECTION** ADJUSTABLE(OFF,50%,100%) CABLE CONNECTION

Model		
product brand name	SENTRON	
Product designation	Molded case circuit b	reaker
Design of the product	Line protection	
Product variations	Selective Applications	5
Ground fault monitoring version	Without	
Design of the auxiliary release	without auxiliaryrelea	se
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		

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 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		С
Dissipation		
Active power loss		
• maximum	W	25.5
Electricity		
Continuous current / Rated value / maximum	Α	160
Continuous current / Rated value	Α	160
Adjustable response value current / of the	Α	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	Α	160
• at 50 °C / Rated value	Α	160
• at 60 °C / Rated value	Α	160
• at 65 °C / Rated value	Α	160
• at 70 °C / Rated value	Α	160
Auxiliary circuit		
Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts		0
Suitability		
Suitability for use		system protection
Adjustable parameters		
Adjustable response value current		
• of I-trip / Full-scale value	Α	10
of the short-time delayed short-circuit release / initial value	Α	1.5
• of the short-time delayed short-circuit release / Full-scale value	Α	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

roduct details Product component		
•		No
• Trip indicator		No
• display		No
undervoltage release		No
Product property		No
 for neutral conductors / upgradeable/retrofittable / Short-circuit and 		No
overload proof		
Product expansion / optional / motor drive		Yes
roduct function		
Product function		
Intrinsic device protection		Yes
• communication function		No
Phase failure detection		No
• other measurement function		No
ccessories		
Manufacturer article number / of the supplied basic		3VA2116-7HN46-0AA0
switch		
hort 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	2.5
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 (lcm)		
● at 240 V / Rated value	kA	330
• at 415 V / Rated value	kA	242
• at 440 V / Rated value	kA	242
	kA	187
• at 500 V / Rated value	IV t	
at 500 V / Rated valueat 690 V / Rated value	kA	3.75

Mechanical Design	
Type of electrical connection / for main current circuit	Box terminal
• of the round conductor terminal / stranded	1 x (6-120 mm²)
Type of connectable conductor cross-section	
Arrangement of electrical connectors / for main current circuit	Front terminal

Mechanical Design		
Height	mm	181
Width	mm	140
Depth	mm	107
Mounting type		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		
0 10 1 (4	E140	D	6 611 1

General Product Approval	EMC	Declaration of	Shipping
		Conformity	Approval











Shipping	other
Approval	



other

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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/3VA21167HN460AA0

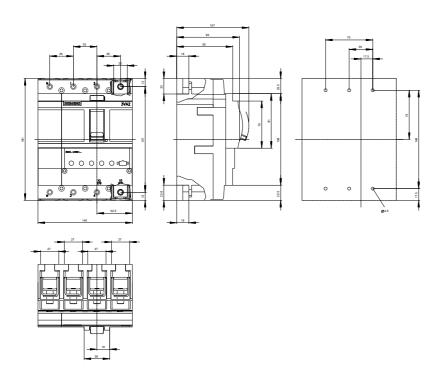
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

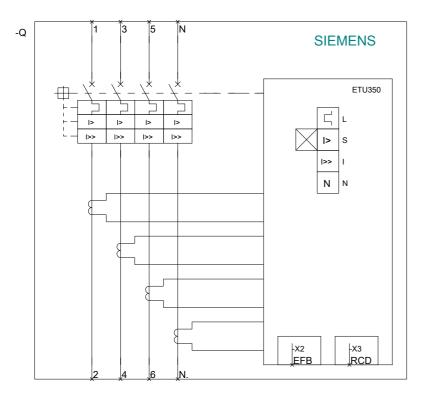
http://support.automation.siemens.com/WW/view/en/3VA21167HN460AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA21167HN460AA0

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





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