SIEMENS

Data sheet



3VA2040-7HN46-0AA0

CIRCUIT BREAKER 3VA2 IEC FRAME 100 BREAKING CAPACITY CLASS C ICU=110KA @ 415 V 4POLE, LINE PROTECTION ETU350, LSI, IN=40A OVERLOAD PROTECTION IR=16A ...40A SHORT CIRCUIT PROTECTION ISD=1,5... 10 X IR, II=12 X IN NEUTRAL PROTECTION ADJUSTABLE(OFF,100%) 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		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						

Decker (free shares ID	_	10.40
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		C
Dissipation		
Active power loss		
● maximum	W	2.2
Electricity		
Continuous current / Rated value / maximum	А	100
Continuous current / Rated value	А	40
Adjustable response value current / of the	A	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	40
● at 50 °C / Rated value	А	40
● at 60 °C / Rated value	А	40
● at 65 °C / Rated value	А	40
● at 70 °C / Rated value	А	40
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 	А	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 /		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		3VA2040-7HN46-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)		150
• 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
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
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
Connections		

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	1 x (6-120 mm²)		
Type of electrical connection / for main current circuit		Box termina	Box terminal		
Mechanical Design					
Height	mm	181			
Width	mm	140			
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.	J Å 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/3VA20407HN460AA0

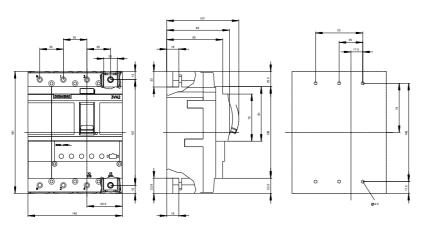
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA20407HN460AA0/all

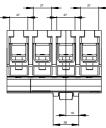
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA20407HN460AA0

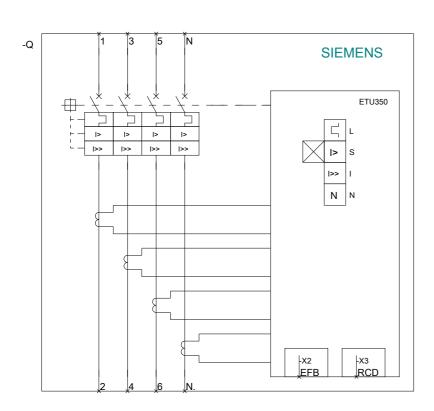
CAx-Online-Generator

http://www.siemens.com/cax

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







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