SIEMENS

Data sheet

3VA2040-7HL42-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 100 BREAKING CAPACITY CLASS C ICU=110KA @ 415 V 4POLE, LINE PROTECTION ETU320, LI, IN=40A OVERLOAD PROTECTION IR=16A ...40A SHORT CIRCUIT PROTECTION 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		ETU320
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	_	LI
	_	
Switching capacity Switching capacity class of the circuit breaker		C
		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	А	1.5
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
Adjustable response value current / of the current-	А	0.4
dependent overload release / initial value		
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>3VA2040-7HL42-0AA0</u>
Short 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
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 terminal
Type of connectable conductor cross-section		
 for flat-bar terminal connection / minimum 		13 x 1 mm
 for flat-bar terminal connection / maximum 		25 x 8.5
Type of electrical connection / for main current circuit		Lug terminal
Mechanical Design		

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Height	m				
Width	m	m	140		
Depth	m	m	107		
Mounting type			fixed mour	nting	
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		EMC	;	Declaration of	Shipping
				Conformity	Approval
			other		ቶ &
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	IIL			EG-Konf.	
Shipping other					

Shipping Approval	other
GL	other

Further information

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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/3VA20407HL420AA0

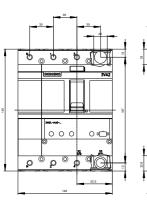
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA20407HL420AA0/all

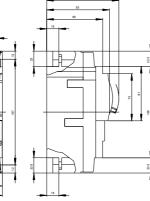
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA20407HL420AA0

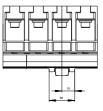
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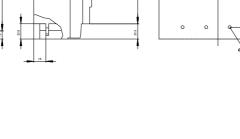
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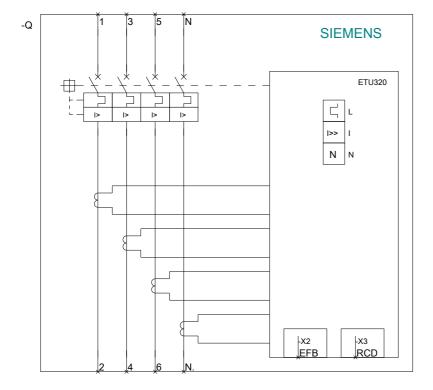
Tender specifications http://ausschreibungstexte.siemens.com/tiplv











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