Data sheet



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS C ICU=110KA @ 415 V 3POLE, LINE PROTECTION ETU330, LIG, IN=40A OVERLOAD PROTECTION IR=16A ...40A SHORT CIRCUIT PROTECTION II=1,5...12 X IN GROUNDFAULTPROTECTION IG=0,2... 1 X IN, TG=0,1/0,3MS 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	Summation current formation L-conductor
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	ETU330

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
Total disconnection time / for G-tripping / with standard characteristic / initial value	S	0.1
Total disconnection time / for G-tripping / with standard characteristic / Full-scale value	S	0.3
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		LIG
. 10100110 1411010110 14110 0101011101110		
Switching capacity		
Switching capacity class of the circuit breaker		C
Dissipation		
Active power loss		
• maximum	W	1.6
Floatricity		
Electricity Continuous current / Rated value / maximum	A	160
Continuous current / Rated value	A	40
Adjustable response value current / of the	A	1.5
instantaneous short-circuit release / initial value		
Main circuit		
Operating voltage	V	690
with AC / at 50/60 Hz / Rated value	·	090
Operating current	Δ.	40
• at 40 °C / Rated value	A	40
● at 50 °C / Rated value	A	40
● at 60 °C / Rated value	Α	40
● at 65 °C / Rated value	Α	40
● at 70 °C / Rated value	Α	40
Auxiliary circuit		
Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts		0
0.11.1111		
Suitability Suitability for use		system protection
Culturing for doo		Cyclem protocolor
Adjustable parameters		
Adjustable response value current		
 for G-tripping / with standard characteristic / initial value 	Α	0.4
 for G-tripping / with standard characteristic / Full-scale value 	Α	1
of I-trip / Full-scale value	Α	12
Adjustable response value current / of the current-	Α	0.4
dependent overload release / initial value		

Product details		
Product component		
Trip indicator		No
• display		No
undervoltage release		No
Product property		
• of the circuit breaker with tripping unit / Tripping		Yes
characteristic adjustable		
• for neutral conductors /		No
upgradeable/retrofittable / Short-circuit and overload proof		
Product expansion / optional / motor drive		Yes
Troduct expansion / optional / motor drive		163
Product function		
Product function		
Intrinsic device protection		Yes
communication function		No
Phase failure detection		No
 other measurement function 		No
Accessories		
Short circuit		
Operational short-circuit current breaking capacity		
(Ics) • at 240 V / Rated value	kA	150
at 415 V / Rated value	kA	110
	kA	110
at 440 V / Rated valueat 500 V / Rated value	kA	85
at 690 V / Rated value at 690 V / Rated value	kA	2.5
Maximum short-circuit current breaking capacity (Icu)	-	2.0
• 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 at 690 V / Rated value	kA	2.5
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	3.75

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			
Height	mm	181	
Width	mm	105	
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		









EG-Konf.

Further information

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/3VA21407HM320AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21407HM320AA0/all

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

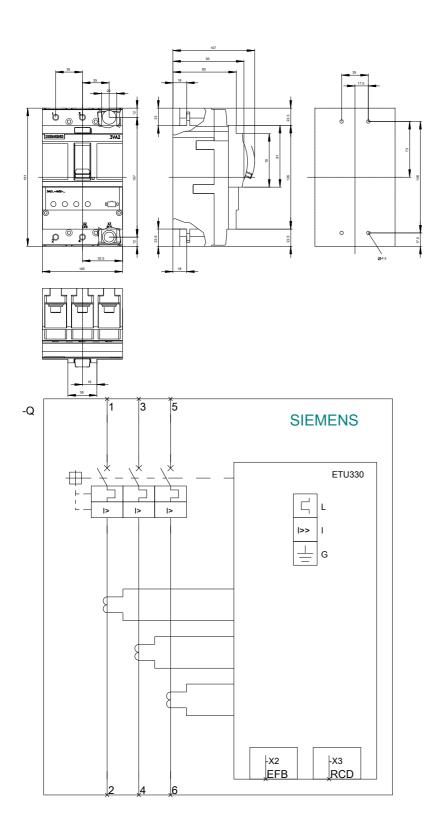
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA21407HM320AA0

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv



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