Data sheet



CIRCUIT BREAKER 3VA2 IEC FRAME 100 BREAKING CAPACITY CLASS M ICU=55KA @ 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
Drataction class		
Protection class Protection class IP		IP40
Protection class IP / on the front		IP40
Protective function of the overcurrent release		LIG
. 101001110 1411011011011011011011110111		
Switching capacity		
Switching capacity class of the circuit breaker		M
Dissipation		
Active power loss		
• maximum	W	2.2
Floatricity		
Electricity Continuous current / Rated value / maximum	A	100
Continuous current / Rated value	A	40
Adjustable response value current / of the		1.5
instantaneous short-circuit release / initial value	, (1.0
Main circuit		
Operating voltage	V	000
• with AC / at 50/60 Hz / Rated value	V	690
Operating current		40
• at 40 °C / Rated value	A	40
● at 50 °C / Rated value	Α	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
0.761.77	_	
Suitability Suitability for use		system protection
Calability for add		ojotom protoction
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- dependent overload release / initial value	А	0.4
•		

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
Product expansion / optional / motor drive		Tes
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)	kA	85
• at 240 V / Rated value	kA kA	55
• at 415 V / Rated value	kA	55
at 440 V / Rated value at 500 V / Rated value	kA	36
at 500 V / Rated value at 600 V / Rated value	kA	2
at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu)	- 10-1	2
• 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 at 690 V / Rated value	kA	2
Short-circuit current making capacity (Icm)	10.1	
• at 240 V / Rated value	kA	187
at 415 V / Rated value	kA	121
at 440 V / Rated value	kA	121
	kA	
• at 500 V / Rated Value		19
at 500 V / Rated valueat 690 V / Rated value	kA	79 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			
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	

C	Certificates					
Τ	Equipment marking					
	• acc. to DIN EN 61346-2		Q			
	• acc. to DIN EN 81346-2		Q			
	General Product Approval	EM	С	Declaration of	other	



other

EG-Konf.

Conformity

other

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/3VA20405HM320AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA20405HM320AA0/all

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

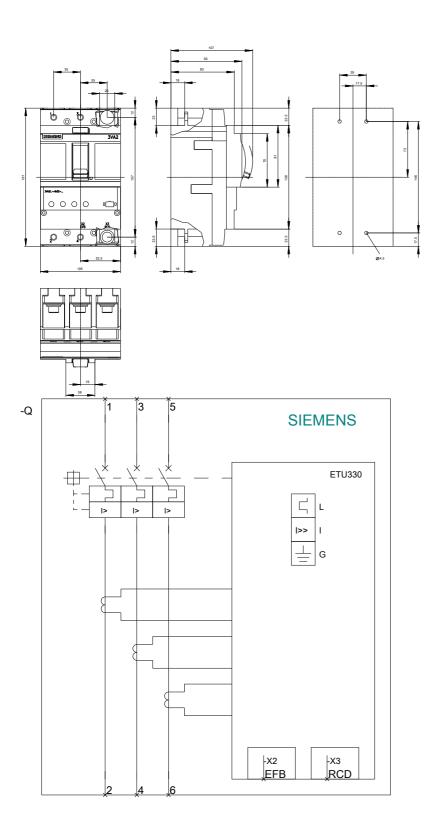
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA20405HM320AA0

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv



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