

CIRCUIT BREAKER 3VA2 IEC FRAME 250 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 3POLE, LINE PROTECTION ETU330, LIG, IN=160A OVERLOAD PROTECTION IR=64A ...160A 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		10 000		
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		
. 101001110 1111011011 01 1110 010 101111 01111		-		
Switching capacity				
Switching capacity class of the circuit breaker		M		
Dissipation				
Active power loss				
• maximum	W	19.7		
Floatricity				
Electricity Continuous current / Rated value / maximum	A	250		
Continuous current / Rated value	A	160		
Adjustable response value current / of the	A	1.5		
instantaneous short-circuit release / initial value	, .			
Main circuit Operating voltage				
• with AC / at 50/60 Hz / Rated value	V	690		
Operating current	_	000		
at 40 °C / Rated value	Α	160		
	A	160		
• at 50 °C / Rated value				
• at 60 °C / Rated value	A	160		
● at 65 °C / Rated value	A	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	^	0.2		
 for G-tripping / with standard characteristic / initial value 	Α	0.2		
 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	Α	0.394		

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		165
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	3
at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu)	- 10-1	
• 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	3
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
at TTO V / Natou value		· - ·
• at 500 V / Rated value	kA	79
at 500 V / Rated valueat 690 V / Rated value	kA kA	79 4.5

Front terminal
13 x 1 mm
25 x 8.5
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			

General Product	t Approval	EMC	Declaration of Conformity	other	
	•	other		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/3VA22165HM320AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA22165HM320AA0/all

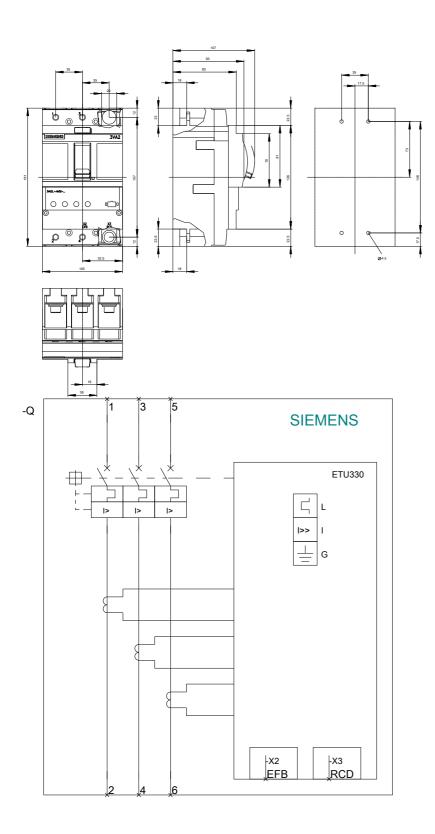
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA22165HM320AA0

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv



last modified: 11.03.2015