

CIRCUIT BREAKER 3VA2 IEC FRAME 160 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...10 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
Dratastian slags		
Protection class Protection class IP		IP40
Protection class IP / on the front		IP40
Protective function of the overcurrent release		LIG
Total and an		
Switching capacity		
Switching capacity class of the circuit breaker		M
Dissipation		
Active power loss		
• maximum	W	25.5
Electricity		
Electricity  Continuous current / Rated value / maximum	A	160
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	V	600
• with AC / at 50/60 Hz / Rated value	V	690
Operating current		400
● at 40 °C / Rated value	A	160
• at 50 °C / Rated value	Α	160
• at 60 °C / Rated value	Α	160
• at 65 °C / Rated value	Α	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
0 11 1111		
Suitability Suitability for use	_	system protection
Cultability for use		System protection
Adjustable parameters		
Adjustable response value current		
<ul> <li>for G-tripping / with standard characteristic / initial value</li> </ul>	Α	0.2
<ul> <li>for G-tripping / with standard characteristic / Full-scale value</li> </ul>	Α	1
• of I-trip / Full-scale value	Α	10
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
Troduct expansion / optional / motor drive		163
Product function		
Product function		
Intrinsic device protection		Yes
communication function		No
Phase failure detection		No
<ul> <li>other measurement function</li> </ul>		No
Accessories		
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)	kA	85
at 240 V / Rated value	kA	55
at 415 V / Rated value	kA	55
at 440 V / Rated value     at 500 V / Rated value	kA	36
<ul><li>at 500 V / Rated value</li><li>at 690 V / Rated value</li></ul>	kA	2.5
Maximum short-circuit current breaking capacity (Icu)		2.0
• 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	2.5
Short-circuit current making capacity (Icm)	-	2.0
at 240 V / Rated value	kA	187
at 415 V / Rated value	kA	121
at 440 V / Rated value	kA	121
at 500 V / Rated value	kA	79
at 500 v / itatou valuo		
<ul><li>at 690 V / Rated value</li></ul>	kA	3.75

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			
<ul><li>during operation / minimum</li></ul>	°C	-25	
<ul><li>during operation / maximum</li></ul>	°C	70	
• during storage / minimum	°C	-40	
<ul><li>during storage / maximum</li></ul>	°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	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/3VA21165HM320AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21165HM320AA0/all

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

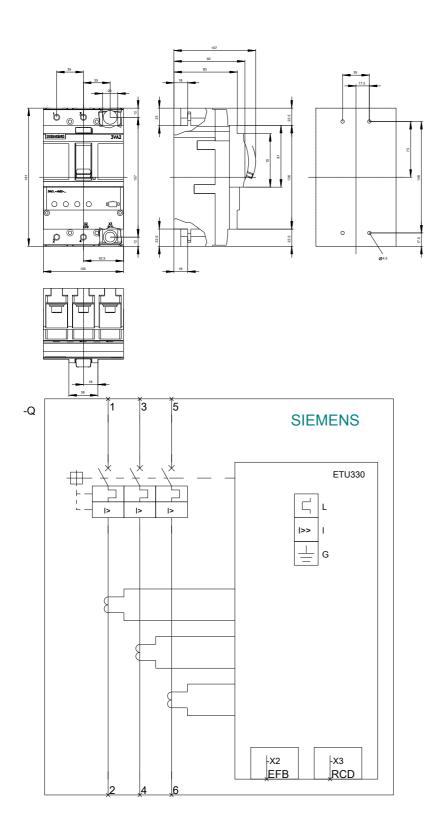
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA21165HM320AA0

**CAx-Online-Generator** 

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv



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