SIEMENS

Data sheet

3VA2110-5HM42-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4POLE, LINE PROTECTION ETU330, LIG, IN=100A OVERLOAD PROTECTION IR=40A ...100A SHORT CIRCUIT PROTECTION II=1,5...12 X IN NEUTRAL PROTECTION ADJUSTABLE(OFF,50%,100%) 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 + N 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		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	
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		
Drotaction class				
Protection class Protection class IP		IP40		
Protection class IP / on the front		IP40		
Protective function of the overcurrent release		LIG		
. 10100110 11110110110110110110110111011				
Switching capacity				
Switching capacity class of the circuit breaker		M		
Dissipation				
Active power loss				
• maximum	W	10		
Floatricity				
Electricity Continuous current / Rated value / maximum	A	160		
Continuous current / Rated value	A	100		
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	100		
	A	100		
• at 50 °C / Rated value				
• at 60 °C / Rated value	A	100		
• at 65 °C / Rated value	A	100		
● at 70 °C / Rated value	Α	100		
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				
for G-tripping / with standard characteristic /	Α	0.2		
initial value	A	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	0.4		
aspandent eveness release, militar 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
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	
• at 415 V / Rated value	kA kA	55
• at 440 V / Rated value		55
at 500 V / Rated value	kA kA	36
at 690 V / Rated value Maximum short sireuit current breaking conseits (lou)	kA	2.5
Maximum short-circuit current breaking capacity (Icu) ● at 240 V / Rated value	kA	85
	kA	55
at 440 V / Pated value at 440 V / Pated value	kA	55
at 440 V / Rated value at 500 V / Rated value	kA kA	36
at 600 V / Rated value at 600 V / Rated value	kA	2.5
at 690 V / Rated value Short-circuit current making capacity (lcm)	NA.	2.0
• at 240 V / Rated value	kA	187
at 240 V / Rated value at 415 V / Rated value	kA	121
at 440 V / Rated value at 440 V / Rated value	kA	121
▼ AL 44U V / BAIEO VAIDE	IV-1	16.1
	kΔ	
 at 500 V / Rated value at 690 V / Rated value 	kA kA	79 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	140		
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				
		1			

	General Product	: 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/3VA21105HM420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21105HM420AA0/all

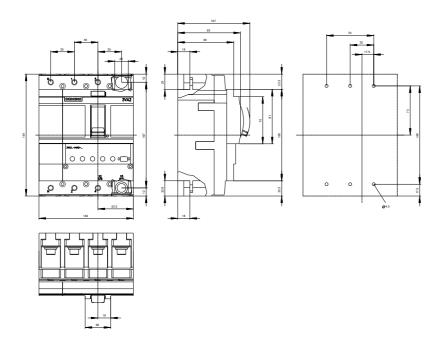
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA21105HM420AA0

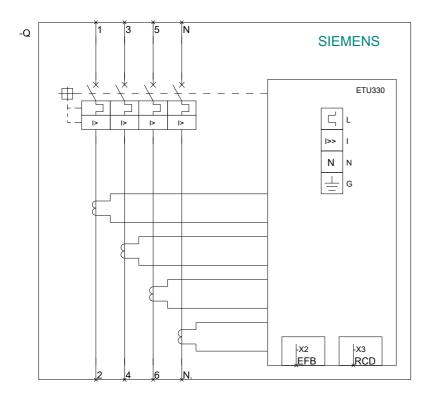
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv





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