SIEMENS

Data sheet

3VA2110-5HM46-0AA0



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 CABLE CONNECTION

Model 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
Troduct expansion / optional / motor drive		100
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	85
at 415 V / Rated value	kA	55
	kA	55
at 440 V / Rated valueat 500 V / Rated value	kA	36
at 690 V / Rated value at 690 V / Rated value	kA	2.5
Maximum short-circuit current breaking capacity (Icu)	10 (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	kA	2.5
Short-circuit current making capacity (Icm)		
• 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
and a district the second of t		
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				
 of the round conductor terminal / stranded 		1 x (6-120 mm²)		
Type of electrical connection / for main current circuit		Box terminal		
Mechanical Design				
Hoight	mm	101		

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	
	=1.10	 41

General Prod	luct Approval	EMC	Declaration of Conformity	other
	^	 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/3VA21105HM460AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21105HM460AA0/all

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

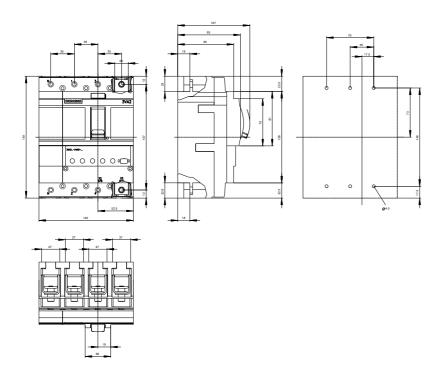
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA21105HM460AA0

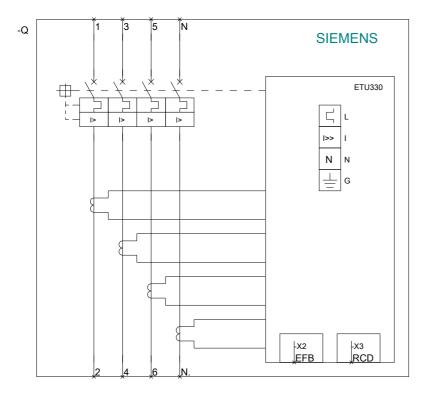
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv





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