SIEMENS

Data sheet

3VA2163-7HM46-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS C ICU=110KA @ 415 V 4POLE, LINE PROTECTION ETU330, LIG, IN=63A OVERLOAD PROTECTION IR=25A ...63A SHORT CIRCUIT PROTECTION II=1,5...12 X IN NEUTRAL PROTECTION ADJUSTABLE(OFF,100%) GROUNDFAULTPROTECTION IG=0,2... 1 X IN, TG=0,1/0,3MS CABLE 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 IP		IP40
Protection class IP / on the front		IP40
Protective function of the overcurrent release		LIG
Trotodivo funcion of the overeun on trotode		
Switching capacity		
Switching capacity class of the circuit breaker		С
Dissipation		
Active power loss		
• maximum	W	4
Floatriaity		
Continuous current / Rated value / maximum	A	160
Continuous current / Rated value	A	63
Adjustable response value current / of the	A	1.5
instantaneous short-circuit release / initial value	, ,	
Main circuit		
Operating voltage	V	000
• with AC / at 50/60 Hz / Rated value	V	690
Operating current		
• at 40 °C / Rated value	A	63
● at 50 °C / Rated value	Α	63
• at 60 °C / Rated value	Α	63
● at 65 °C / Rated value	Α	63
● at 70 °C / Rated value	Α	63
Auxiliary circuit		
Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts	_	0
C. ita-bilita		
Suitability Suitability for use		system protection
Canability for doo		System protocolori
Adjustable parameters		
Adjustable response value current		
 for G-tripping / with standard characteristic / initial value 	Α	0.25
 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	0.397
aspendent eveneda reledes / ilitidi 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)	kA	150
at 240 V / Rated value	kA	110
at 415 V / Rated value	kA	110
at 440 V / Rated value at 500 V / Rated value	kA	85
at 500 V / Rated valueat 690 V / Rated value	kA	2.5
Maximum short-circuit current breaking capacity (Icu)	- 10-1	2.0
• at 240 V / Rated value	kA	150
at 415 V / Rated value	kA	110
at 440 V / Rated value	kA	110
at 500 V / Rated value	kA	85
• at 690 V / Rated value		
at 690 V / Rated value Short-circuit current making capacity (Icm)	kA	2.5
Short-circuit current making capacity (lcm)	kA	2.5
Short-circuit current making capacity (lcm) • at 240 V / Rated value	kA kA	2.5 330
Short-circuit current making capacity (Icm) • at 240 V / Rated value • at 415 V / Rated value	kA kA kA	2.5 330 242
Short-circuit current making capacity (Icm) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value	kA kA kA	2.5 330 242 242
Short-circuit current making capacity (Icm) • at 240 V / Rated value • at 415 V / Rated value	kA kA kA	2.5 330 242

Connections		
Arrangement of electrical connectors / for main current circuit		Front terminal
Type of connectable conductor cross-section		
••		1 x (6-120 mm²)
of the round conductor terminal / stranded		· ·
Type of electrical connection / for main current circuit		Box terminal
Mechanical Design		
Height	mm	181

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			
Conoral Product Approval	EMC	Declaration of	othor	

General Prod	luct Approval	EMC	Declaration of Conformity	other
	\triangle	 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/3VA21637HM460AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21637HM460AA0/all

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

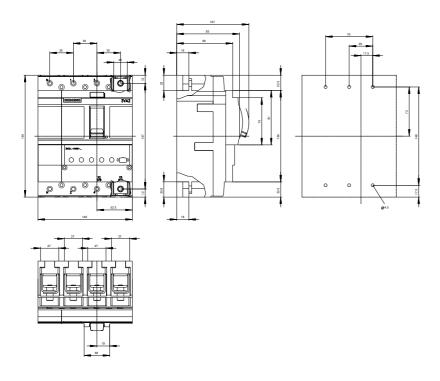
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA21637HM460AA0

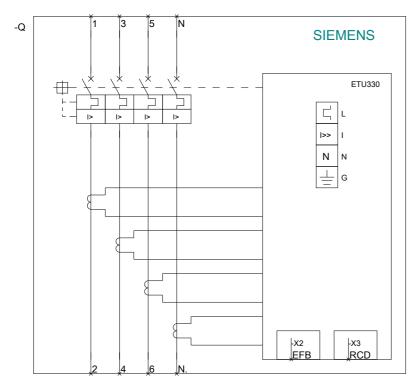
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv





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