SIEMENS

Data sheet

3VA2163-5HM46-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 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
Protection class		
Protection class IP		IP40
Protection class IP / on the front		IP40
Protective function of the overcurrent release		LIG
. 10100110 14110101 01 1110 0101011 0111 01010		
Switching capacity		
Switching capacity class of the circuit breaker		M
Dissipation		
Active power loss		
• maximum	W	4
Floatricity		
Electricity 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		
with AC / at 50/60 Hz / Rated value	V	690
		030
Operating current	Α	63
• at 40 °C / Rated value		
• at 50 °C / Rated value	A	63
● at 60 °C / Rated value	A	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
Suitability		
Suitability for use		system protection
·		,
Adjustable parameters		
Adjustable response value current		0.05
 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	A	0.397
dependent ovendad release / Illitial 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		163
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	55
at 415 V / Rated value	kA	55
at 440 V / Rated value at 500 V / Rated value	kA	36
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	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)	10.1	
at 240 V / Rated value	kA	187
at 415 V / Rated value		
	kA	121
	kA kA	121
• at 440 V / Rated value	kA	121

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					
Llatak4		404			

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		
	 _	 	

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/3VA21635HM460AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21635HM460AA0/all

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

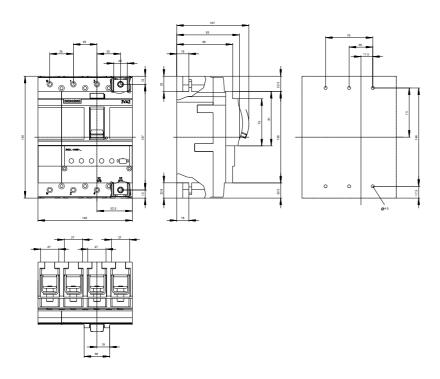
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA21635HM460AA0

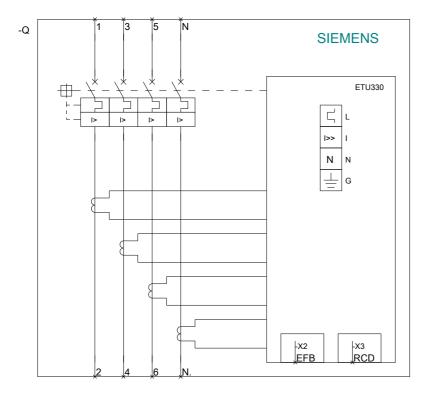
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv





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