SIEMENS

Data sheet

3VA2225-6HM42-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 250 BREAKING CAPACITY CLASS H ICU=85KA @ 415 V 4POLE, LINE PROTECTION ETU330, LIG, IN=250A OVERLOAD PROTECTION IR=100A ...250A SHORT CIRCUIT PROTECTION II=1,5...10 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		10 000		
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		Н
Dissipation		
Active power loss		
• maximum	W	48
Electricity		
Continuous current / Rated value / maximum	A	250
Continuous current / Rated value	A	250
Adjustable response value current / of the	Α	1.5
instantaneous short-circuit release / initial value		
Marin day of		
Main circuit Operating voltage		
with AC / at 50/60 Hz / Rated value	V	690
Operating current		000
• at 40 °C / Rated value	Α	250
	A	250
• at 50 °C / Rated value		
• at 60 °C / Rated value	A	250
● at 65 °C / Rated value	A	250
● at 70 °C / Rated value	Α	250
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	^	0.2
 for G-tripping / with standard characteristic / initial value 	Α	0.2
 for G-tripping / with standard characteristic / Full-scale value 	Α	1
• of I-trip / Full-scale value	Α	10
Adjustable response value current / of the current-	А	0.4
dependent overload release / initial 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)		
• at 240 V / Rated value	kA	110
at 415 V / Rated value	kA	85
	kA	85
at 440 V / Rated valueat 500 V / Rated value	kA	55
at 690 V / Rated value at 690 V / Rated value	kA	3
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	110
at 415 V / Rated value	kA	85
at 440 V / Rated value	kA	85
at 500 V / Rated value	kA	55
at 690 V / Rated value at 690 V / Rated value	kA	3
Short-circuit current making capacity (Icm)	10 (
at 240 V / Rated value	kA	242
at 415 V / Rated value	kA	187
at 440 V / Rated value	kA	187
at 500 V / Rated value	kA	121
at 690 V / Rated value	kA	4.5

Connections				
Front terminal				
13 x 1 mm				
25 x 8.5				
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			

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/3VA22256HM420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA22256HM420AA0/all

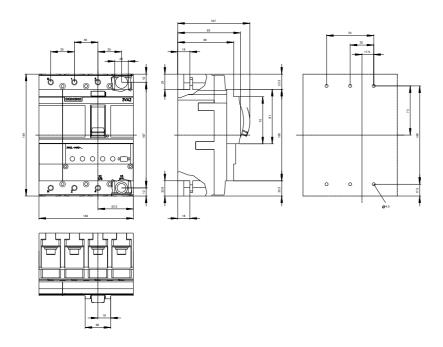
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA22256HM420AA0

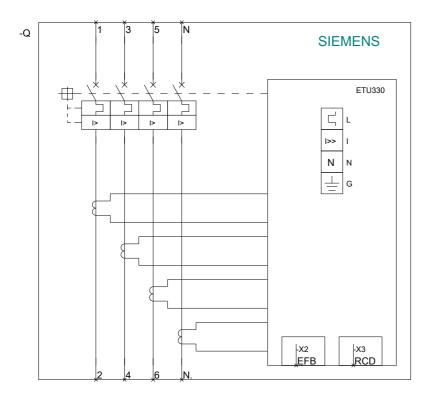
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv





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