Data sheet

3VA2116-7HM36-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS C ICU=110KA @ 415 V 3POLE, LINE PROTECTION ETU330, LIG, IN=160A OVERLOAD PROTECTION IR=64A ...160A SHORT CIRCUIT PROTECTION II=1,5...10 X IN 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-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		3	
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 141101101 01 1110 01010111 1010111 101011		
Switching capacity		
Switching capacity class of the circuit breaker		C
Dissipation		
Active power loss		
• maximum	W	25.5
Floatricity		
Electricity Continuous current / Rated value / maximum	A	160
Continuous current / Rated value	A	160
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
		050
Operating current • at 40 °C / Rated value	Α	160
• at 50 °C / Rated value	A	160
● at 60 °C / Rated value	A	160
● at 65 °C / Rated value	Α	160
● at 70 °C / Rated value	Α	160
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		0.0
 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-dependent overload release / initial value	Α	0.394
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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
		00
• at 690 V / Rated value		25
at 690 V / Rated value Short-circuit current making capacity (Icm)	kA	2.5
Short-circuit current making capacity (lcm)	kA	
Short-circuit current making capacity (lcm) • at 240 V / Rated value	kA kA	330
Short-circuit current making capacity (Icm) • at 240 V / Rated value • at 415 V / Rated value	kA kA kA	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	330 242 242
Short-circuit current making capacity (Icm) • at 240 V / Rated value • at 415 V / Rated value	kA kA kA	330 242

Connections		
Arrangement of electrical connectors / for main		Front terminal
current circuit		
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
Moderated Boots		
Mechanical Design		
Height	mm	181

Mechanical Design			
Height	mm	181	
Width	mm	105	
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	other







other



Conformity

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/3VA21167HM360AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21167HM360AA0/all

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

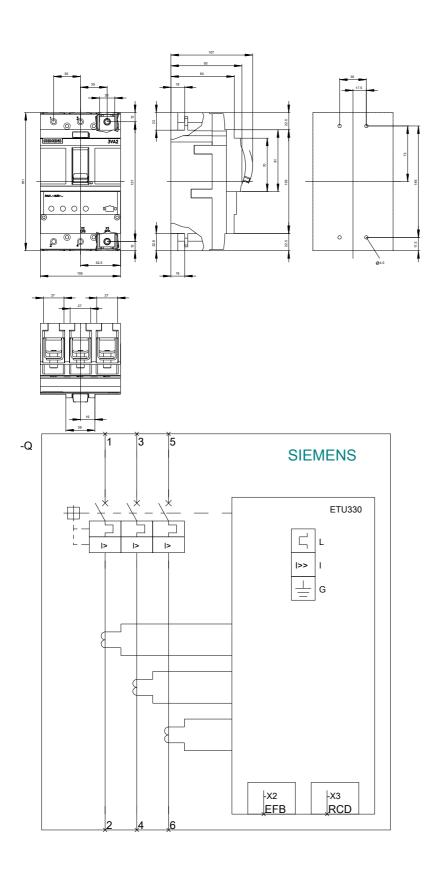
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA21167HM360AA0

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv



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