SIEMENS

Data sheet

3VA2140-8HM32-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS L ICU=150KA @ 415 V 3POLE, LINE PROTECTION ETU330, LIG, IN=40A OVERLOAD PROTECTION IR=16A ...40A SHORT CIRCUIT PROTECTION II=1,5...12 X IN 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-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
Switching capacity		· ·
Switching capacity class of the circuit breaker		L
Dissipation		
Active power loss		
• maximum	W	1.2
Electricity		
Continuous current / Rated value / maximum	A	160
Continuous current / Rated value	А	40
Adjustable response value current / of the	А	1.5
instantaneous short-circuit release / initial value		
Main circuit		
Operating voltage		
• with AC / at 50/60 Hz / Rated value	V	690
Operating current		
● at 40 °C / Rated value	А	40
● at 50 °C / Rated value	А	40
● at 60 °C / Rated value	А	40
● at 65 °C / Rated value	А	40
● at 70 °C / Rated value	А	40
A sufficient alteration	_	
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 / initial value 	A	0.4
 for G-tripping / with standard characteristic / 	А	1
Full-scale value		
• of I-trip / Full-scale value	А	12
Adjustable response value current / of the current- dependent overload release / initial value	A	0.4

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
Product expansion? optional? motor drive		Tes
Product function		
Product function		
 Intrinsic device protection 		Yes
 communication function 		No
 Phase failure detection 		No
 other measurement function 		No
Accessories		
Manufacturer article number / of the supplied basic		3VA2140-8HM32-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity		
(lcs)		
• at 240 V / Rated value	kA	200
• at 415 V / Rated value	kA	150
● at 440 V / Rated value	kA	150
● at 500 V / Rated value	kA	100
• at 690 V / Rated value	kA	18
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	200
• at 415 V / Rated value		
• at 440 V / Rated value	kA	150
	kA kA	
• at 500 V / Rated value		150
 at 500 V / Rated value at 690 V / Rated value 	kA	150 150
	kA kA	150 150 100
• at 690 V / Rated value	kA kA	150 150 100
• at 690 V / Rated value Short-circuit current making capacity (Icm)	kA kA kA	150 150 100 24
 at 690 V / Rated value Short-circuit current making capacity (Icm) at 240 V / Rated value 	kA kA kA kA	150 150 100 24 440
 at 690 V / Rated value Short-circuit current making capacity (Icm) at 240 V / Rated value at 415 V / Rated value 	kA kA kA kA	150 150 100 24 440 330

 acc. to DIN EN 61346-2 acc. to DIN EN 81346-2 		Q Q				
Equipment marking						
Certificates						
 during storage / maximum 	°C	80	80			
 during storage / minimum 	°C	-40				
 during operation / maximum 	°C	70				
• during operation / minimum	°C	-25				
Ambient temperature						
Environmental conditions						
Mounting type	_	fixed moun	fixed mounting			
Depth	mm	107	107			
Width	mm	105	105			
Height	mm	181				
Aechanical Design	_		_			
Type of electrical connection / for main current circuit	-	Lug termin	Lug terminal			
for flat-bar terminal connection / maximum		25 x 8.5				
for flat-bar terminal connection / minimum		13 x 1 mm				
current circuit Type of connectable conductor cross-section	_					
Arrangement of electrical connectors / for main		Front termi				

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/3VA21408HM320AA0

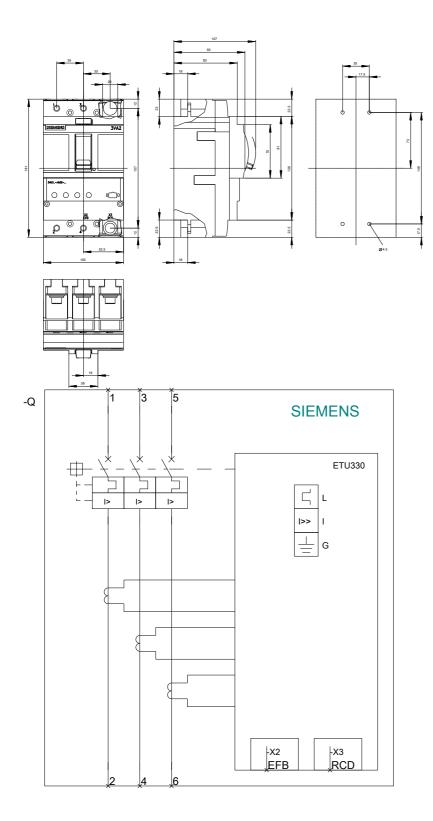
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21408HM320AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA21408HM320AA0

CAx-Online-Generator http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv



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