SIEMENS

Data sheet



3VA2040-5HM46-0AA0

CIRCUIT BREAKER 3VA2 IEC FRAME 100 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4POLE, LINE PROTECTION ETU330, LIG, IN=40A OVERLOAD PROTECTION IR=16A ...40A 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
Switching capacity	_	
Switching capacity class of the circuit breaker		Μ
Dissipation		
Active power loss		
• maximum	W	2.2
Electricity		
Continuous current / Rated value / maximum	A	100
Continuous current / Rated value	A	40
Adjustable response value current / of the	A	1.5
instantaneous short-circuit release / initial value		
Main aire it	_	
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	A	40
		40
• at 60 °C / Rated value	A	
• at 65 °C / Rated value	A	40
• at 70 °C / Rated value	A	40
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	_	
•	А	0.4
 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
		165
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		<u>3VA2040-5HM46-0AA0</u>
switch		
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)		
		a.
• at 240 V / Rated value	kA	85
• at 415 V / Rated value	kA	55
 at 415 V / Rated value at 440 V / Rated value 	kA kA	55 55
 at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value 	kA kA kA	55 55 36
 at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value 	kA kA	55 55
 at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu)	kA kA kA kA	55 55 36 2
 at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value 	kA kA kA kA kA	55 55 36 2 85
 at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value at 415 V / Rated value 	kA kA kA kA kA	55 55 36 2 85 55
 at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value 	kA kA kA kA kA kA	55 55 36 2 85 55 55
 at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value 	kA kA kA kA kA kA kA kA	55 55 36 2 85 55 55 36
 at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value 	kA kA kA kA kA kA	55 55 36 2 85 55 55
 at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value 	kA kA kA kA kA kA kA kA	55 55 36 2 85 55 55 55 36 2
 at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value 	kA kA kA kA kA kA kA kA kA	55 55 36 2 85 55 55 36 2
 at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Short-circuit current making capacity (Icm)	kA kA kA kA kA kA kA kA	55 55 36 2 85 55 55 36 2
 at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 500 V / Rated value at 690 V / Rated value 	kA kA kA kA kA kA kA kA kA	55 55 36 2 85 55 55 36 2
 at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value 	kA kA kA kA kA kA kA kA kA kA	55 55 36 2 85 55 55 36 2

	Front termir 1 x (6-120 n Box termina	nm²)			
		-			
_		-			
		-			
	Box termina	l			
		Box terminal			
mm	181	181			
mm	140	140			
mm	107	107			
	fixed mount	fixed mounting			
°C	-25				
°C	70	70			
°C	-40	-40			
°C	80	80			
	Q				
	Q	Q			
E	MC	Declaration of Conformity	other		
	other	CE	other		
	°C °C °C °C °C °C	mm 140 mm 107 fixed mount °C -25 °C 70 °C -40 °C 80	mm 140 mm 107 fixed mounting °C -25 °C 70 °C -40 °C 80		

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/3VA20405HM460AA0

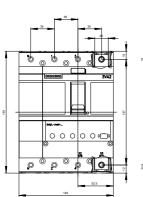
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA20405HM460AA0/all

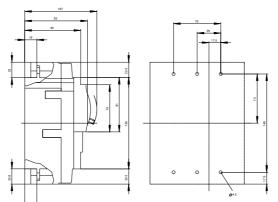
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA20405HM460AA0______

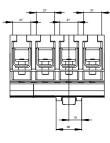
CAx-Online-Generator http://www.siemens.com/cax

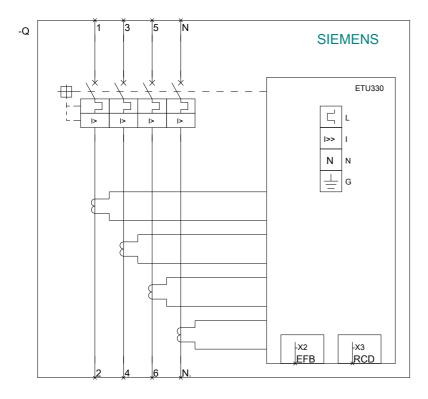
Tender specifications

http://ausschreibungstexte.siemens.com/tiplv









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