SIEMENS

Data sheet



3VA2125-5HM46-0AA0

CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4POLE, LINE PROTECTION ETU330, LIG, IN=25A OVERLOAD PROTECTION IR=10A ...25A 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
Drotaction class	_	
Protection class Protection class IP	_	IP40
Protection class IP / on the front		IP40
Protective function of the overcurrent release		LIG
		2.0
Switching capacity	_	
Switching capacity class of the circuit breaker		Μ
Dissipation		
Active power loss		
• maximum	W	0.6
Electricity		
Continuous current / Rated value / maximum	A	160
Continuous current / Rated value	А	25
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	25
• at 50 °C / Rated value	А	25
• at 60 °C / Rated value	А	25
● at 65 °C / Rated value	А	25
● at 70 °C / Rated value	А	25
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	٨	0.0
 for G-tripping / with standard characteristic / initial value 	A	0.6
 for G-tripping / with standard characteristic / Full-scale value 	А	1
 of I-trip / Full-scale value 	А	12
Adjustable response value current / of the current- dependent overload release / initial value	A	0.4
apprindent overlead 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
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	_	3VA2125-5HM46-0AA0
switch		
Chart aires it	_	
Short circuit Operational short-circuit current breaking capacity	_	
(lcs)		
• 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	kA	2.5
Maximum short-circuit current breaking capacity (Icu)		
• 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	kA	2.5
Short-circuit current making capacity (Icm)		
• at 240 V / Rated value	kA	187
• at 415 V / Rated value	kA	121
at 440 V / Rated value	kA	121
at 500 V / Rated value	kA	79
at 690 V / Rated value	kA	3.75

		Front termin	al		
		1 x (6-120 mm²)			
_		Box terminal			
mm	m 181				
mm		140			
mm		107			
_		fixed mounting			
°C		-25			
°C		70			
°C		-40			
°C		80			
-					
	Q				
		Q			
	FM		Declaration of	other	
			Conformity		
		other		other	
			EG-Konf		
	°C °C °C	mm mm °C °C °C °C	mm 1 x (6-120 m Box terminal mm 181 mm 140 mm 107 fixed mounti °C -25 °C 70 °C -40 °C -40 °C 80	mm 181 mm 140 mm 107 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/3VA21255HM460AA0

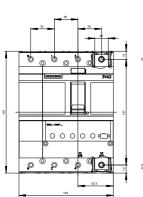
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21255HM460AA0/all

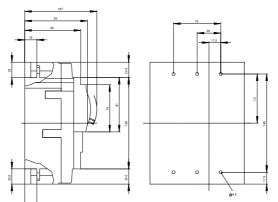
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA21255HM460AA0

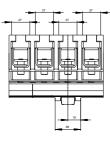
CAx-Online-Generator http://www.siemens.com/cax

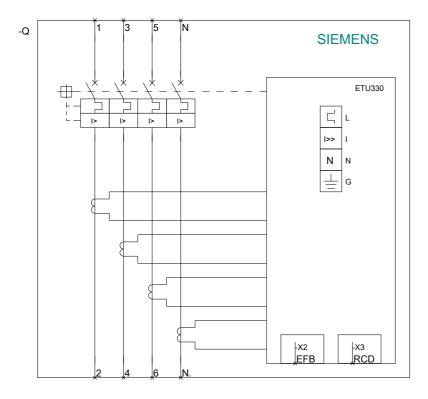
Tender specifications

http://ausschreibungstexte.siemens.com/tiplv









last modified:

11.03.2015