SIEMENS

Datasheet

3VA1116-5GE42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4-POLE, LINE PROTECTION TM220, ATFM, IN=160A OVERLOAD PROTECTION IR=112A ...160A SHORT CIRCUIT PROTECTION II=10 X IN NEUTRAL PROTECTION 100% BUSBAR CONNECTION

Figure similar

Model		
product brand name		SENTRON
Product designation		Molded case circuit breaker
Design of the product		Line protection
Product variations		General Applications
Ground fault monitoring version		Without
Design of the auxiliary release		Without auxiliary release
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		TM220
General technical data		
Number of poles		4
Trip class / of the L-trip / with I2t characteristic / initial value		1
Trip class / of the L-trip / with I2t characteristic / Full- scale value		1
Electrical endurance (switching cycles)		
• at AC-1 / at 380/415 V / at 50/60 Hz		8 000
circuit-breaker / Design		3VA
Mechanical service life (switching cycles) / typical		15 000
Voltage		
Insulation voltage		
Rated value	V	800

Protection class		
Protective function of the overcurrent release		LI
Switching capacity		
Switching capacity class of the circuit breaker		Μ
Dissipation		
Active power loss	14/	20
• maximum	W	38
Electricity		
Operating current / at 45 °C / Rated value	А	160
Continuous current / Rated value / maximum	А	160
Continuous current	_	
Rated value	А	160
Adjustable response value current		
 of the current-dependent overload release / 	А	1
Full-scale value		
• of the instantaneous short-circuit release / initial	А	10
value		
Net weight	g	1 200
Main circuit		
Operating voltage		
 with AC / at 50/60 Hz / Rated value 	V	690
 for DC / Rated value 	V	600
Operating current	-	
• at 40 °C / Rated value	А	160
• at 50 °C / Rated value	А	160
● at 55 °C / Rated value	А	158
● at 60 °C / Rated value	А	155
● at 65 °C / Rated value	А	153
● at 70 °C / Rated value	А	150
Auxiliary circuit		
Number of CO contacts		
for auxiliary contacts		0
- -		
Suitability		evetem protection
Suitability for use		system protection
Adjustable parameters		
Adjustable response value current		
 of I-trip / Full-scale value 	A	10
 for N-conductor protection / initial value 	А	100
 for N-conductor protection / Full-scale value 	А	100

А	0.7		
_			
No			
	No		
-			
	No		
	Yes		
	Yes		
	No		
	No		
	No		
_			
	3VA1116-5GE42-0AA0		
_			
kA	85		
	55		
kA	55		
kA kA	55 30		
kA	30		
kA kA	30 15		
kA kA	30 15		
kA kA kA	30 15 5		
kA kA kA kA	30 15 5 85		
kA kA kA kA kA	30 15 5 85 55		
	A		

• at 240 V / Rated value		kA ka	187		
• at 415 V / Rated value		kA	121		
• at 690 V / Rated value	ŀ	kA	17		
Connections					
Arrangement of electrical connectors					
 for main current circuit 			Front termin	al	
Type of connectable conductor cross-section					
 for flat-bar terminal connection / minimum 	n		12 x 0		
 for flat-bar terminal connection / maximu 	m		17 x 6.5		
Design of the electrical connection					
• for main current circuit		Lug terminal			
lechanical Design					
Height	r	mm	130		
Width	r	mm	101.6		
Depth	r	mm	70		
Mounting type			fixed mounting		
invironmental conditions					
Ambient temperature					
 during operation / minimum 	c	°C	-25		
 during operation / maximum 	c	°C	70		
 during storage / minimum 	c	°C	-40		
 during storage / maximum 	c	°C	80		
Certificates					
Reference code					
• acc. to DIN EN 61346-2			Q		
• acc. to DIN EN 81346-2			Q		
General Product Approval El	МС		claration of	Shipping	other
		Co	nformity	Approval	
ста ГПГ	other				other
			t	GL	
		EG			

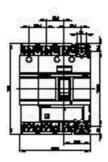
Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

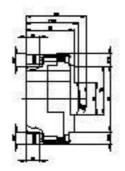
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11165GE420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11165GE420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11165GE420AA0

Tender specifications http://ausschreibungstexte.siemens.com/tiplv





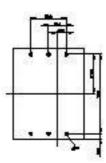




Figure similar

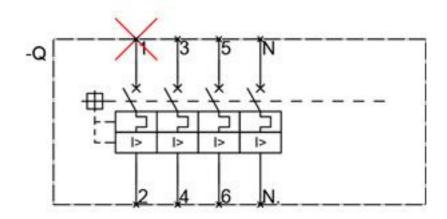


Figure similar

last modified:

21.10.2014