SIEMENS

Datasheet

3VA1180-5EE42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4-POLE, LINE PROTECTION TM220, ATFM, IN=80A OVERLOAD PROTECTION IR=56A ...80A SHORT CIRCUIT PROTECTION II=10 X IN NEUTRAL UNPROTECTED 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		M
	_	
Dissipation	_	
Active power loss	W	19.2
• maximum	VV	19.2
Electricity		
Operating current / at 45 °C / Rated value	A	80
Continuous current / Rated value / maximum	А	160
Continuous current		
Rated value	А	80
Adjustable response value current		
 of the current-dependent overload release / 	А	1
Full-scale value		
• of the instantaneous short-circuit release / initial	A	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	80
• at 50 °C / Rated value	А	80
• at 55 °C / Rated value	А	78
● at 60 °C / Rated value	А	77
● at 65 °C / Rated value	А	75
• at 70 °C / Rated value	А	74
Auxiliary circuit		
Number of CO contacts	_	
 for auxiliary contacts 		0
-		
Suitability		system 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 	A	0
 for N-conductor protection / Full-scale value 	А	0

Adjustable response value current / of the current-	А	0.7
dependent overload release / initial value		
Appearance		
Product details		
Product component		
Trip indicator		No
● display		No
 Voltage trigger 		No
 undervoltage release 		No
 undervoltage release with leading contact 		No
Product property	-	
 for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof 		No
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 switch		3VA1180-5EE42-0AA0
Short circuit	_	
Operational short-circuit current breaking capacity		
(Ics)		
(Ics) ● at 240 V / Rated value	kA	85
 (Ics) • at 240 V / Rated value • at 415 V / Rated value 	kA	55
(Ics) ● at 240 V / Rated value	kA kA	55 30
 (Ics) • at 240 V / Rated value • at 415 V / Rated value 	kA kA kA	55 30 15
(Ics) • 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	55 30
(Ics) • 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 Maximum short-circuit current breaking capacity (Icu)	kA kA kA kA	55 30 15 5
(Ics) • 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	55 30 15
(Ics) • 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 Maximum short-circuit current breaking capacity (Icu)	kA kA kA kA	55 30 15 5
(Ics) • 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 Maximum short-circuit current breaking capacity (Icu) • at 240 V / Rated value	kA kA kA kA kA	55 30 15 5 85
<pre>(lcs)</pre>	kA kA kA kA kA	55 30 15 5 85 55

	other	_	$\mathbf{C}\mathbf{\epsilon}$	GL	other
General Product Approval	EMC		Declaration of Conformity	Shipping Approval	other
• acc. to DIN EN 81346-2			Q		
• acc. to DIN EN 61346-2			Q		
Reference code					
Certificates					
 during storage / maximum 		°C	80		
• during storage / minimum		°C	-40		
during operation / maximum		°C	70		
during operation / minimum		°C	-25		
Ambient temperature		*	05		
nvironmental conditions					
Mounting type			lixed moun		
Depth Mounting type		mm	fixed mount	ting	
Width		mm	101.6 70		
Height		mm	130		
lechanical Design			400		
• for main current circuit			Lug terminal		
Design of the electrical connection			Luc torming		
for flat-bar terminal connection / m.	aximum		17 x 6.5		
• for flat-bar terminal connection / m			12 x 0		
Type of connectable conductor cross-se			10 0		
• for main current circuit			Front termi	nal	
Arrangement of electrical connectors					
Connections					
• at 690 V / Rated value		kA	17		
• at 415 V / Rated value		kA	121		
• at 240 V / Rated value		kA	187		

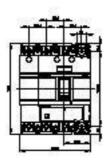
Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

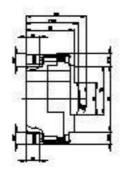
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11805EE420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11805EE420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11805EE420AA0

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





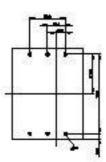




Figure similar

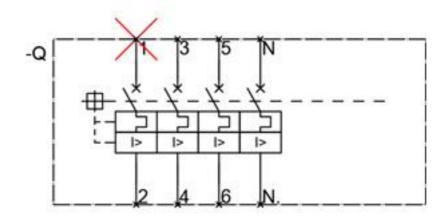


Figure similar

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