SIEMENS

Datasheet

3VA1180-6EE46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS H ICU=70KA @ 415 V 4-POLE, LINE PROTECTION TM220, ATFM, IN=80A OVERLOAD PROTECTION IR=56A ...80A SHORT CIRCUIT PROTECTION II=10 X IN NEUTRAL UNPROTECTED CABLE 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		Ц
Switching capacity		
Switching capacity class of the circuit breaker		Н
Dissipation		
Active power loss	W	19.2
• maximum	VV	19.2
Electricity		
Operating current / at 45 °C / Rated value	Α	80
Continuous current / Rated value / maximum	Α	160
Continuous current		
Rated value	Α	80
Adjustable response value current		
 of the current-dependent overload release / Full-scale value 	Α	1
 of the instantaneous short-circuit release / initial value 	Α	10
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	Α	80
● at 50 °C / Rated value	Α	80
• at 55 °C / Rated value	Α	78
• at 60 °C / Rated value	Α	77
• at 65 °C / Rated value	Α	75
• at 70 °C / Rated value	Α	74
Auxiliary circuit		
Number of CO contacts		
• for auxiliary contacts		0
Suitability		
Suitability for use		system protection
Adjustable parameters		
Adjustable response value current		40
of I-trip / Full-scale value	Α	10
• for N-conductor protection / initial value	Α	0
• for N-conductor protection / Full-scale value	Α	0

Adjustable response value current / of the current- dependent overload release / initial value	Α).7	
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		3VA1180-6EE46-0AA0	
Short circuit			
Operational short-circuit current breaking capacity			
(lcs)			
• at 240 V / Rated value	kA	100	
● at 415 V / Rated value	kA	70	
• at 440 V / Rated value	kA	36	
• at 500 V / Rated value	kA	15	
• at 690 V / Rated value	kA	5	
Maximum short-circuit current breaking capacity (Icu)			
• at 240 V / Rated value	kA	100	
• at 415 V / Rated value	kA	70	
• at 440 V / Rated value	kA	36	
• at 500 V / Rated value	kA	20	
• at 690 V / Rated value	kA	10	
Short-circuit current making capacity (Icm)			

• at 240 V / Rated value	kA	220
● at 415 V / Rated value	kA	154
● at 690 V / Rated value	kA	17

Connections		
Arrangement of electrical connectors		
• for main current circuit		Front terminal
Type of connectable conductor cross-section		
• of the round conductor terminal / stranded		1 x (1.5 - 70 mm²)
Design of the electrical connection		
• for main current circuit		Box terminal
Mechanical Design		
Height	mm	130
Width	mm	101.6
Depth	mm	70
Mounting type		fixed mounting

Environmental conditions				
Ambient temperature				
during operation / minimum	°C	-25		
during operation / maximum	°C	70		
during storage / minimum	°C	-40		
during storage / maximum	°C	80		

C	Certificates					
	Reference code					
	• acc. to DIN EN	61346-2		Q		
	• acc. to DIN EN	81346-2		Q		
	General	FMC.	Declaration of	Shinning	other	

General	EMC	Declaration of	Shipping	other
Product		Conformity	Approval	
Approval				



other





other

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/3VA11806EE460AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11806EE460AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11806EE460AA0

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

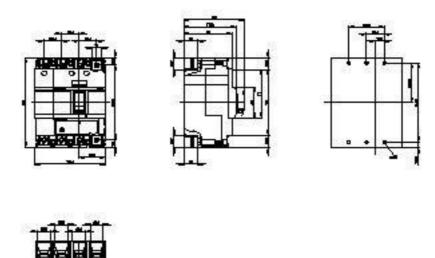


Figure similar

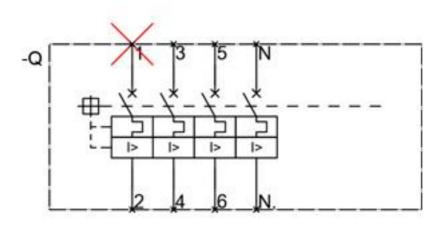


Figure similar

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