## **SIEMENS**

## Datasheet

## 3VA1180-4EF42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS S ICU=36KA @ 415 V 4-POLE, LINE PROTECTION TM240, ATAM, IN=80A OVERLOAD PROTECTION IR=56A ...80A SHORT CIRCUIT PROTECTION II=5...10 X IN NEUTRAL UNPROTECTED BUSBAR CONNECTION

Figure similar

aduat brand name					
roduct brand name		SENTRON			
roduct designation		Molded case circuit breaker			
esign of the product		Line protection			
roduct variations		General Applications			
round fault monitoring version		Without			
esign of the auxiliary release		Without auxiliary release			
esign of the auxiliary switch		Without			
esign of the operating mechanism		toggle handle			
ype of the driving mechanism / motor drive		No			
esign of the overcurrent release		TM240			
General technical data					
umber of poles		4			
rip class / of the L-trip / with I2t characteristic / initial alue		1			
rip class / of the L-trip / with I2t characteristic / Full-		1			
lectrical endurance (switching cycles)					
• at AC-1 / at 380/415 V / at 50/60 Hz		8 000			
rcuit-breaker / Design		3VA			
lechanical service life (switching cycles) / typical		15 000			
Itage					
sulation voltage					
Rated value	V	800			

Protection class		
Protective function of the overcurrent release		LI
Quitaking equality	_	
Switching capacity Switching capacity class of the circuit breaker	_	S
		č
Dissipation		
Active power loss		
• maximum	W	19.2
Electricity		
Operating current / at 45 °C / Rated value	А	80
Continuous current / Rated value / maximum	А	160
Continuous current	-	
Rated value	А	80
Adjustable response value current		
<ul> <li>of the current-dependent overload release /</li> </ul>	А	1
Full-scale value		
• of the instantaneous short-circuit release / initial	A	5
value		4 600
Net weight	g	1 200
Main circuit		
Operating voltage		
• with AC / at 50/60 Hz / Rated value	V	690
<ul> <li>for DC / Rated value</li> </ul>	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		
<ul> <li>for auxiliary contacts</li> </ul>		0
Suitability		
Suitability for use		system protection
Adjustable parameters		
Adjustable parameters Adjustable response value current		
of I-trip / Full-scale value	А	10
<ul> <li>for N-conductor protection / initial value</li> </ul>	A	0
	A	0
<ul> <li>for N-conductor protection / Full-scale value</li> </ul>	~	U Contraction of the second se

Adjustable response value current / of the current- dependent overload release / initial value	A	0.7
•		
Appearance		
Product details		
Product component		
Trip indicator		No
• display		No
Voltage trigger		No
<ul> <li>undervoltage release</li> </ul>		No
<ul> <li>undervoltage release with leading contact</li> </ul>		No
Product property	-	
<ul> <li>for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof</li> </ul>		No
Product expansion		
• optional		
— motor drive		Yes
Product function		
Product function		
<ul> <li>Intrinsic device protection</li> </ul>		Yes
<ul> <li>communication function</li> </ul>		No
Phase failure detection		No
<ul> <li>other measurement function</li> </ul>		No
Accessories		
Manufacturer article number / of the supplied basic switch		3VA1180-4EF42-0AA0
Short circuit		
Operational short-circuit current breaking capacity		
(lcs)		
• at 240 V / Rated value	kA	55
• at 415 V / Rated value	kA	36
• at 440 V / Rated value	kA	25
• 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	55
• at 415 V / Rated value	kA	36
• at 440 V / Rated value	kA	25
• at 500 V / Rated value	kA	16
• at 690 V / Rated value	kA	7
Short-circuit current making capacity (Icm)	-	

• at 240 V / Rated value	kA	121			
• at 415 V / Rated value	kA	75.6			
• at 690 V / Rated value	kA	7.5			
Connections					
Arrangement of electrical connectors					
<ul> <li>for main current circuit</li> </ul>		Front termin	nal		
Type of connectable conductor cross-section					
<ul> <li>for flat-bar terminal connection / minimum</li> </ul>		12 x 0			
<ul> <li>for flat-bar terminal connection / maximum</li> </ul>		17 x 6.5	17 x 6.5		
Design of the electrical connection					
• for main current circuit		Lug terminal			
lechanical Design					
Height	mm	130			
Width	mm	101.6			
Depth	mm	70			
Mounting type		fixed mounting			
Environmental conditions					
Ambient temperature					
<ul> <li>during operation / minimum</li> </ul>	°C	-25			
<ul> <li>during operation / maximum</li> </ul>	°C	70			
<ul> <li>during storage / minimum</li> </ul>	°C	-40			
• during storage / maximum	°C	80			
Certificates					
Reference code					
• acc. to DIN EN 61346-2		Q			
• acc. to DIN EN 81346-2		Q			
General Product Approval EMC		eclaration of onformity	Shipping Approval	other	
	her			other	
		t	GL		

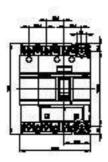
Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

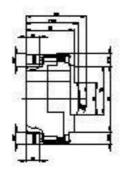
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11804EF420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11804EF420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11804EF420AA0

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





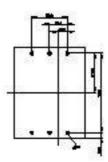




Figure similar

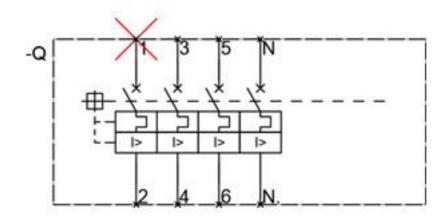


Figure similar

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