# **SIEMENS**

## Datasheet

# 3VA1110-3FF46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 4-POLE, LINE PROTECTION TM240, ATAM, IN=100A OVERLOAD PROTECTION IR=70A ...100A SHORT CIRCUIT PROTECTION II=5...10 X IN NEUTRAL PROTECTION 50% 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		TM240
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		N
	_	
Dissipation	_	
Active power loss	W	25
• maximum	vv	23
Electricity		
Operating current / at 45 °C / Rated value	А	100
Continuous current / Rated value / maximum	А	160
Continuous current		
Rated value	А	100
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		
Net weight	g	1 200
Main circuit		
Operating voltage		
<ul> <li>with AC / at 50/60 Hz / Rated value</li> </ul>	V	690
<ul> <li>for DC / Rated value</li> </ul>	V	600
Operating current		
● at 40 °C / Rated value	А	100
● at 50 °C / Rated value	А	100
• at 55 °C / Rated value	А	98
• at 60 °C / Rated value	А	96
• at 65 °C / Rated value	А	94
• at 70 °C / Rated value	А	91
Auxiliary circuit		
Number of CO contacts		
<ul> <li>for auxiliary contacts</li> </ul>		0
	_	
Suitability	_	system protection
Suitability for use		system protection
Adjustable parameters		
Adjustable response value current		
<ul> <li>of I-trip / Full-scale value</li> </ul>	А	10
<ul> <li>for N-conductor protection / initial value</li> </ul>	А	0.5
<ul> <li>for N-conductor protection / Full-scale value</li> </ul>	А	0.5

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
<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
<ul> <li>Phase failure detection</li> </ul>		No
<ul> <li>other measurement function</li> </ul>		No
Accessories		
Manufacturer article number / of the supplied basic switch		3VA1110-3FF46-0AA0
	_	
Short circuit Operational short-circuit current breaking capacity		
(lcs)		
• at 240 V / Rated value	kA	36
• at 415 V / Rated value	kA	25
• at 440 V / Rated value	kA	16
• at 500 V / Rated value	kA	8
● at 690 V / Rated value	kA	5
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	36
● at 415 V / Rated value	kA	25
• at 440 V / Rated value	kA	16
• at 500 V / Rated value	kA	8
	kA kA	8 7

EHC		EG-Konf.		GL			
General Product Approval	EMC other	Declaration Conformity			oping roval	other	
acc. to DIN EN		_			Q		
<ul> <li>acc. to DIN EN</li> </ul>					Q		
Reference code							
Certificates							
<ul> <li>during storage / maximum</li> </ul>		Ĵ	°C 80				
<ul> <li>during storage / minimum</li> </ul>		°C		-40			
<ul> <li>during operation / maximum</li> </ul>		°C		70			
<ul> <li>during operatio</li> </ul>	n / minimum		°C		-25		
Ambient temperature	•						
Environmental cond	itions						
Mounting type					fixed mounti	ng	
Depth			mm		70		
Width			mm		101.6		
Mechanical Design Height			mm		130		
• for main curren					Box terminal		
Design of the electric					(1.5 - 70 mm)		
Type of connectable conductor cross-section • of the round conductor terminal / stranded				1 x (1.5 - 70 mm²)			
	• for main current circuit				Front terminal		
Arrangement of elect					<b>-</b>		
Connections			_				
• at 690 V / Rate	d value		kA		7.5		
• at 415 V / Rate	d value		kA		52.5		

### 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/3VA11103FF460AA0

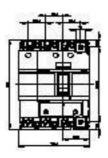
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11103FF460AA0/all

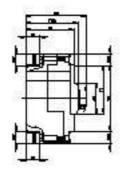
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11103FF460AA0

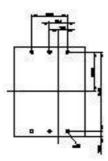
# CAx-Online-Generator

http://www.siemens.com/cax

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







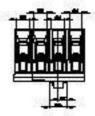


Figure similar

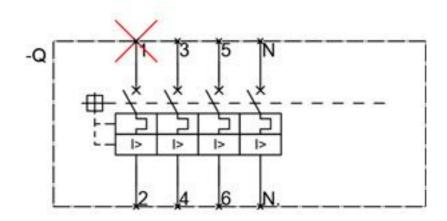


Figure similar

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