# **SIEMENS**

## **Datasheet**

## 3VA1110-3EE46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 4-POLE, LINE PROTECTION TM220, ATFM, IN=100A OVERLOAD PROTECTION IR=70A ...100A 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		LI
Switching capacity		
Switching capacity class of the circuit breaker		N
Dissipation		
Active power loss	147	25
• maximum	W	25
Electricity		
Operating current / at 45 °C / Rated value	Α	100
Continuous current / Rated value / maximum	Α	160
Continuous current		
Rated value	Α	100
Adjustable response value current		
• of the current-dependent overload release /	Α	1
Full-scale value		
of the instantaneous short-circuit release / initial	Α	10
value		4.000
Net weight	g	1 200
Main circuit		
Operating voltage		
<ul><li>with AC / at 50/60 Hz / Rated value</li></ul>	V	690
• for DC / Rated value	V	600
Operating current		
• at 40 °C / Rated value	Α	100
● at 50 °C / Rated value	Α	100
● at 55 °C / Rated value	Α	98
• at 60 °C / Rated value	Α	96
• at 65 °C / Rated value	Α	94
● at 70 °C / Rated value	Α	91
Auxiliary circuit		
Number of CO contacts		
• for auxiliary contacts		0
Suitability		
Suitability     Suitability for use		system protection
		,
Adjustable parameters		
Adjustable response value current		40
of I-trip / Full-scale value	A	10
<ul> <li>for N-conductor protection / initial value</li> </ul>	A	0
<ul> <li>for N-conductor protection / Full-scale value</li> </ul>	Α	0

Adjustable response value current / of the current- dependent overload release / initial value	А	0.7		
Appearance				
Product details				
Product component				
Trip indicator		No		
● display		No		
<ul> <li>Voltage trigger</li> </ul>		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				
<ul><li>optional</li></ul>				
— motor drive		Yes		
Product function				
Product function				
<ul> <li>Intrinsic device protection</li> </ul>		Yes		
communication function		No		
Phase failure detection		No		
other measurement function		No		
Accessories				
Manufacturer article number / of the supplied basic switch		3VA1110-3EE46-0AA0		
Short circuit				
Operational short-circuit current breaking capacity				
(Ics)				
• 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		
• at 690 V / Rated value	kA	7		
Short-circuit current making capacity (lcm)				

• at 240 V / Rated value	kA	75.6
● at 415 V / Rated value	kA	52.5
● at 690 V / Rated value	kA	7.5

Connections					
Arrangement of electrical connectors					
• for main current circuit		Front terminal			
Type of connectable conductor cross-section					
<ul> <li>of the round conductor terminal / stranded</li> </ul>		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					
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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		
<ul> <li>during storage / maximum</li> </ul>	°C	80		

	Certificates						
_	Reference code						
	<ul> <li>acc. to DIN EN</li> </ul>	61346-2			Q		
	• acc. to DIN EN 81346-2				Q		
	General	FMC.	Declaration of	Shir	nning	other	

**Product** Conformity **Approval Approval** 



other





GL

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/3VA11103EE460AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11103EE460AA0/all

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11103EE460AA0

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

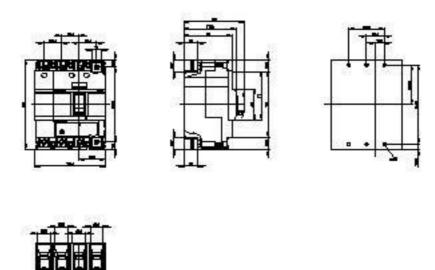


Figure similar

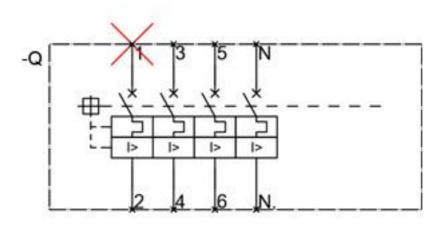


Figure similar

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