## **SIEMENS**

## Datasheet

## 3VA1110-6FE42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS H ICU=70KA @ 415 V 4-POLE, LINE PROTECTION TM220, ATFM, IN=100A OVERLOAD PROTECTION IR=70A ...100A SHORT CIRCUIT PROTECTION II=10 X IN NEUTRAL PROTECTION 50% BUSBAR CONNECTION

Figure similar

roduct brand name	SENTRON
	SENTION
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	TM220
neral 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- cale value	1
lectrical endurance (switching cycles)	
• at AC-1 / at 380/415 V / at 50/60 Hz	8 000
rcuit-breaker / Design	3VA
echanical service life (switching cycles) / typical	15 000
Itage	
sulation voltage	
Rated value     V	· 800

Protection class		
Protective function of the overcurrent release		LI
Switching capacity		
Switching capacity class of the circuit breaker		Н
	_	
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	10
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	_	
• for auxiliary contacts		0
Suitability		system protection
Suitability for use		
Adjustable parameters		
Adjustable response value current		
• of I-trip / Full-scale value	A	10
<ul> <li>for N-conductor protection / initial value</li> </ul>	A	0.5
<ul> <li>for N-conductor protection / Full-scale value</li> </ul>	A	0.5

Adjustable response value current / of the current-	A	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		3VA1110-6FE42-0AA0
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

• 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				
<ul> <li>for main current circuit</li> </ul>		Front terminal		
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		
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	9	
Invironmental 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				
• acc. to DIN EN 61346-2		Q		
• acc. to DIN EN 81346-2		Q		
General Product Approval EMC		claration of	Shipping Approval	other
	ther			other
		E	GL	

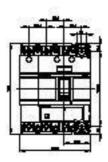
Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

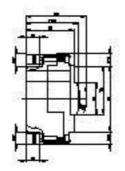
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11106FE420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11106FE420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11106FE420AA0

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





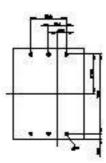




Figure similar

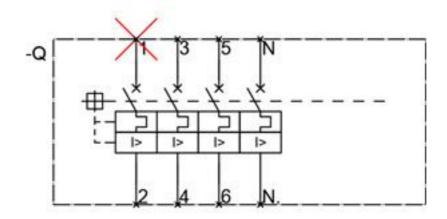


Figure similar

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