# **SIEMENS**

## Datasheet

# 3VA1140-5GE46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4-POLE, LINE PROTECTION TM220, ATFM, IN=40A OVERLOAD PROTECTION IR=28A ...40A SHORT CIRCUIT PROTECTION II=10 X IN NEUTRAL PROTECTION 100% CABLE CONNECTION

Figure similar

product brand nameSENTRONProduct designationMolded case circuit breakerDesign of the productLine protectionProduct variationsGeneral ApplicationsGround fault monitoring versionWithoutDesign of the auxiliary releaseWithout auxiliary releaseDesign of the auxiliary switchWithout	
Design of the productLine protectionProduct variationsGeneral ApplicationsGround fault monitoring versionWithoutDesign of the auxiliary releaseWithout auxiliary release	
Product variationsGeneral ApplicationsGround fault monitoring versionWithoutDesign of the auxiliary releaseWithout auxiliary release	
Ground fault monitoring version     Without       Design of the auxiliary release     Without auxiliary release	
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       1         value       1	
Trip class / of the L-trip / with I2t characteristic / Full-       1         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		M
	_	
Dissipation	_	
Active power loss	W	10.9
• maximum	vv	10.8
Electricity		
Operating current / at 45 °C / Rated value	А	40
Continuous current / Rated value / maximum	А	160
Continuous current		
Rated value	А	40
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	40
• at 50 °C / Rated value	А	40
• at 55 °C / Rated value	А	39
● at 60 °C / Rated value	А	39
● at 65 °C / Rated value	А	38
• at 70 °C / Rated value	А	37
Auxiliary circuit		
Number of CO contacts		
<ul> <li>for auxiliary contacts</li> </ul>		0
Suitability		
Suitability for use		system protection
Adjustable parameters		
Adjustable response value current	•	10
of I-trip / Full-scale value	A	10
<ul> <li>for N-conductor protection / initial value</li> </ul>	A	100
<ul> <li>for N-conductor protection / Full-scale value</li> </ul>	A	100

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
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		3VA1140-5GE46-0AA0
Short circuit	_	
Operational short-circuit current breaking capacity	_	
(lcs)		
• at 240 V / Rated value	kA	85
• at 415 V / Rated value	kA	55
• at 440 V / Rated value	kA	30
• 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	85
• at 415 V / Rated value	kA	55
• at 440 V / Rated value	kA	30
• at 500 V / Rated value	kA	20
• at 690 V / Rated value	kA	10
Short-circuit current making capacity (Icm)		

EHC	other	EG-Konf.		GL	<u>other</u>	
General Product Approval	EMC	Declaration Conformity		Shipping Approval	other	
• acc. to DIN E	N 81346-2			Q		
• acc. to DIN E	N 61346-2			Q		
Reference code						
Certificates						
• during storage / maximum		°C	80			
<ul> <li>during storage</li> </ul>	e / minimum		°C	-40		
<ul> <li>during operation / maximum</li> </ul>		°C	70			
<ul> <li>during operation</li> </ul>	on / minimum		°C	-25		
Ambient temperatur						
Environmental con	ditions					
Mounting type				fixed	mounting	
Depth			mm	70		
Width			mm	101.6	3	
Height			mm	130		
lechanical Design						
<ul> <li>for main curre</li> </ul>				Box t	erminal	
Design of the electri				,		
of the round conductor terminal / stranded			1 x (1	1 x (1.5 - 70 mm²)		
for main current circuit Type of connectable conductor cross-section			11011			
Arrangement of electrical connectors			Front	terminal		
Connections	trical connectors		_	_		
			_	_		
• at 690 V / Rat			kA	17		
<ul> <li>at 415 V / Rate</li> </ul>	ed value		kA	121		

### 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/3VA11405GE460AA0

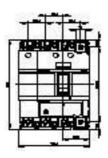
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11405GE460AA0/all

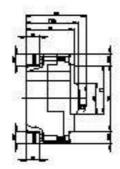
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11405GE460AA0

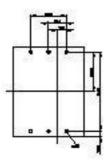
# CAx-Online-Generator

http://www.siemens.com/cax

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







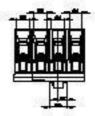


Figure similar

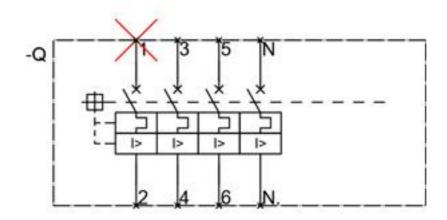


Figure similar

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