# **SIEMENS**

## Datasheet

# 3VA1150-5EE46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4-POLE, LINE PROTECTION TM220, ATFM, IN=50A OVERLOAD PROTECTION IR=35A ...50A SHORT CIRCUIT PROTECTION II=10 X IN NEUTRAL UNPROTECTED CABLE CONNECTION

Figure similar

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
/oltage		
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	14.6
• maximum	VV	14.0
Electricity		
Operating current / at 45 °C / Rated value	А	50
Continuous current / Rated value / maximum	А	160
Continuous current		
Rated value	А	50
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	50
• at 50 °C / Rated value	А	50
• at 55 °C / Rated value	А	49
● at 60 °C / Rated value	А	48
● at 65 °C / Rated value	А	46
● at 70 °C / Rated value	А	45
Auviliant aircuit	_	
Auxiliary circuit Number of CO contacts	_	
for auxiliary contacts		0
-		
Suitability		
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
• for N-conductor protection / Full-scale value	А	0
·		

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
<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		
• 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		3VA1150-5EE46-0AA0
Short circuit		
Operational short-circuit current breaking capacity		
Operational short-circuit current breaking capacity (Ics)		05
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value	kA	85
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value	kA	55
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value	kA kA	55 30
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value	kA kA kA	55 30 15
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value	kA kA	55 30
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu)	kA kA kA kA	55 30 15 5
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value	kA kA kA	55 30 15
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu)	kA kA kA kA	55 30 15 5
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) • at 240 V / Rated value	kA kA kA kA kA	55 30 15 5 85
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) • at 240 V / Rated value • at 415 V / Rated value	kA kA kA kA kA	55 30 15 5 85 55

acc. to DIN EN     acc. to DIN EN     General		Declaration			2 2	other	
Reference code							
Certificates							
<ul> <li>during storage</li> </ul>	e / maximum		°C	8	30		
<ul> <li>during storage</li> </ul>			°C	-	-40		
during operation / maximum		°C	7	70			
<ul> <li>during operation</li> </ul>			°C	-	-25		
nvironmental concentration of Ambient temperatur					_	_	_
					ixed mount		
Depth Mounting type			mm		70 'ixed mounti	ing	
Width			mm		101.6		
Height			mm		130		
lechanical Design							
<ul> <li>for main curre</li> </ul>	nt circuit			E	Box termina	l	
Design of the electri	ical connection						
• of the round conductor terminal / stranded			1	1 x (1.5 - 70 mm²)			
ype of connectable conductor cross-section							
• for main current circuit			F	Front terminal			
Arrangement of elec	ctrical connectors				_		
connections							
• at 690 V / Rate	ed value		kA	1	17		
<ul> <li>at 415 V / Rate</li> </ul>	ed value		kA	1	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/3VA11505EE460AA0

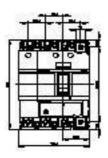
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11505EE460AA0/all

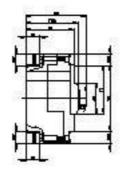
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11505EE460AA0

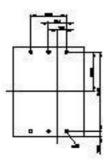
# CAx-Online-Generator

http://www.siemens.com/cax

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







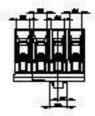


Figure similar

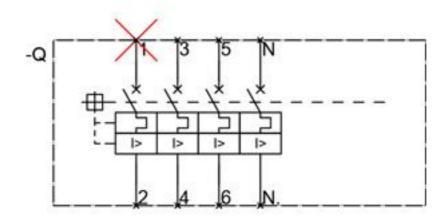


Figure similar

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