## **SIEMENS**

## Data sheet

## 3VA1163-5EE46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4-POLE, LINE PROTECTION TM220, ATFM, IN=63A OVERLOAD PROTECTION IR=44,1A ...63A 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					

Protection class IP		IP40
Protection class IP / on the front	-	IP40
Protective function of the overcurrent release	-	LI
Quitching conscitu	_	
Switching capacity Switching capacity class of the circuit breaker	_	M
Dissipation		
Active power loss	14/	47.0
• maximum	W	17.3
Electricity		
Continuous current / Rated value / maximum	A	160
Continuous current / Rated value	A	63
Adjustable response value current		
<ul> <li>of the current-dependent overload release / Full-scale value</li> </ul>	A	1
<ul> <li>of the instantaneous short-circuit release / initial value</li> </ul>	A	10
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	63
• at 50 °C / Rated value	А	63
● at 55 °C / Rated value	А	62
• at 60 °C / Rated value	А	61
• at 65 °C / Rated value	А	60
• at 70 °C / Rated value	А	58
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
<ul> <li>for N-conductor protection / Full-scale value</li> </ul>	А	0
Adjustable response value current / of the current- dependent overload release / initial value	A	0.7
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		<u>3VA1163-5EE46-0AA0</u>
Short circuit		
Operational short-circuit current breaking capacity (Ics)		
• 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)	-	
• at 240 V / Rated value	kA	187
• at 415 V / Rated value	kA	121
• at 690 V / Rated value	kA	17
Connections		
Arrangement of electrical connectors / for main current circuit		Front terminal
Type of connectable conductor cross section	-	

Type of connectable conductor cross-section

• of the round co	onductor terminal / str	anded		1 x (1.5 - 70 mm²)		
Type of electrical co	nnection / for main cu	irrent circuit		Box terminal		
Mechanical Design						
Height			mm	130		
Width			mm	101.6		
Depth	Depth		mm	70		
Mounting type				fixed mounting		
Environmental cond	litions					
Ambient temperature	)					
<ul> <li>during operation</li> </ul>	on / minimum		°C	-25		
<ul> <li>during operation</li> </ul>	on / maximum		°C	70		
<ul> <li>during storage</li> </ul>	/ minimum		°C	-40		
<ul> <li>during storage</li> </ul>	<ul> <li>during storage / maximum</li> </ul>		°C	80		
Certificates						
Equipment marking						
<ul> <li>acc. to DIN EN</li> </ul>	61346-2			Q		
<ul> <li>acc. to DIN EN</li> </ul>	81346-2			Q		
General Product Approval	EMC	Declaration Conformity		pping Approval	other	
EHC	<u>other</u>	EG-Konf.			other	

## Further information

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

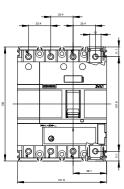
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11635EE460AA0

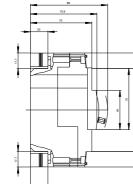
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11635EE460AA0/all

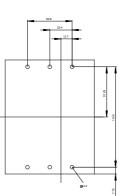
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11635EE460AA0

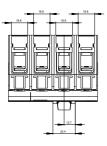
**CAx-Online-Generator** http://www.siemens.com/cax

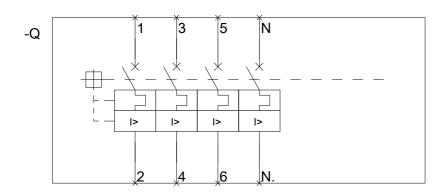
**Tender specifications** http://ausschreibungstexte.siemens.com/tiplv











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