## **SIEMENS**

## Data sheet

## 3VA1150-6EF46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS H ICU=70KA @ 415 V 4-POLE, LINE PROTECTION TM240, ATAM, IN=50A OVERLOAD PROTECTION IR=35A ...50A SHORT CIRCUIT PROTECTION II=5...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		TM240			
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	
	_		
Switching capacity Switching capacity class of the circuit breaker	-	Н	_
Dissipation			
Active power loss	10/	44.0	
• maximum	W	14.6	
Electricity			
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 / Full-scale value</li> </ul>	A	1	
<ul> <li>of the instantaneous short-circuit release / initial value</li> </ul>	A	5	
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	
Auxiliary circuit			
Number of CO contacts / for auxiliary contacts		0	
Suitability			
Suitability for use		system protection	
Adjustable parameters			
Adjustable response value current			
• of I-trip / Full-scale value	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		3VA1150-6EF46-0AA0
switch		
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
Short-circuit current making capacity (Icm)		
• 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 / for main		Front terminal
current circuit		

Type of connectable conductor cross-section

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

## Further information

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

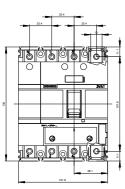
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11506EF460AA0

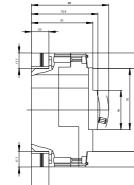
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11506EF460AA0/all

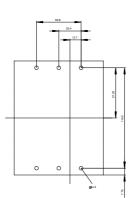
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11506EF460AA0

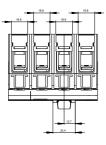
**CAx-Online-Generator** http://www.siemens.com/cax

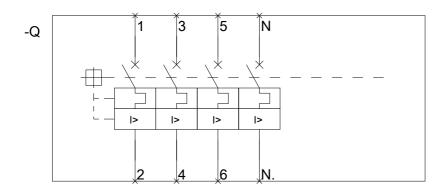
**Tender specifications** http://ausschreibungstexte.siemens.com/tiplv











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