# **SIEMENS**

### Data sheet

## 3VA1150-4EF42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS S ICU=36KA @ 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 BUSBAR 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	-	S	
		5	
Dissipation			
Active power loss			
• 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	
• of the instantaneous short-circuit release / initial value	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
• Trip indicator		
• display		No
Voltage trigger		No
undervoltage release		No
undervoltage release with leading contact		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		3VA1150-4EF42-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity (Ics)		
• at 240 V / Rated value	kA	55
• at 415 V / Rated value	kA	36
• at 440 V / Rated value	kA	25
• 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	55
• at 415 V / Rated value	kA	36
• at 440 V / Rated value	kA	25
• at 500 V / Rated value	kA	16
• at 690 V / Rated value	kA	7
Short-circuit current making capacity (Icm)		
• at 240 V / Rated value	kA	121
• at 415 V / Rated value	kA	75.6
• at 690 V / Rated value	kA	7.5
Connections		
Arrangement of electrical connectors / for main current circuit		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	
Type of electrical connection / for main current circuit		Lug termina	1
echanical Design			
Height	mm	130	
Width	mm	101.6	
Depth	mm	70	
Mounting type		fixed mount	ing
nvironmental 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			
Equipment marking			
• acc. to DIN EN 61346-2		Q	
• acc. to DIN EN 81346-2		Q	
General Product Approval EMC		Declaration of Conformity	Shipping Approval
other other		EG-Konf.	GL DNV GL

<sup>-</sup> urther	intorm	ation
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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/3VA11504EF420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11504EF420AA0/all

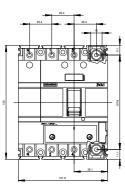
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11504EF420AA0

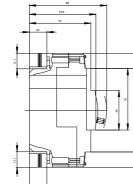
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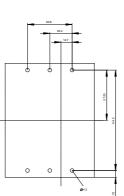
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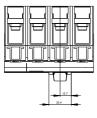
#### **Tender specifications**

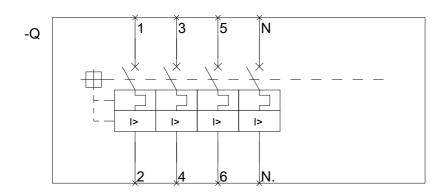
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last modified:

11.03.2015