# **SIEMENS**

## Datasheet

# 3VA1140-4EF46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS S ICU=36KA @ 415 V 4-POLE, LINE PROTECTION TM240, ATAM, IN=40A OVERLOAD PROTECTION IR=28A ...40A 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		
Protective function of the overcurrent release		LI
Switching capacity		
Switching capacity class of the circuit breaker		S
	_	
Dissipation	_	
Active power loss	W	10.8
• maximum	VV	10.0
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	5
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
Auviliant aircuit	_	
Auxiliary circuit Number of CO contacts	_	
for auxiliary contacts		0
		Ť
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	А	0.7
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		3VA1140-4EF46-0AA0
Short circuit	_	
Operational short-circuit current breaking capacity		
(Ics)		
	1. 4	FF
• at 240 V / Rated value	kA	55
• at 415 V / Rated value	kA	36
	kA kA	36 25
• at 415 V / Rated value	kA kA kA	36 25 15
<ul> <li>at 415 V / Rated value</li> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul>	kA kA	36 25
<ul> <li>at 415 V / Rated value</li> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul> Maximum short-circuit current breaking capacity (Icu)	kA kA kA kA	36 25 15 5
<ul> <li>at 415 V / Rated value</li> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul>	kA kA kA	36 25 15
<ul> <li>at 415 V / Rated value</li> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul> Maximum short-circuit current breaking capacity (Icu)	kA kA kA kA	36 25 15 5
<ul> <li>at 415 V / Rated value</li> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul> Maximum short-circuit current breaking capacity (Icu) <ul> <li>at 240 V / Rated value</li> </ul>	kA kA kA kA kA	36 25 15 5 55
<ul> <li>at 415 V / Rated value</li> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul> Maximum short-circuit current breaking capacity (Icu) <ul> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> </ul>	kA kA kA kA kA	36 25 15 5 55 36

• at 240 V / Rate	d value		kA		121		
<ul> <li>at 415 V / Rate</li> </ul>	d value		kA		75.6		
• at 690 V / Rate	d value		kA		7.5		
Connections							
Arrangement of elect	rical connectors						
<ul> <li>for main curren</li> </ul>	• for main current circuit				Front terminal		
Type of connectable	Type of connectable conductor cross-section						
<ul> <li>of the round co</li> </ul>	nductor terminal / stra	anded			1 x (1.5 - 70 mm²)		
Design of the electric	al connection						
<ul> <li>for main curren</li> </ul>	<ul> <li>for main current circuit</li> </ul>				Box terminal		
Mechanical Design							
Height			mm		130		
Width			mm		101.6		
Depth			mm		70		
Mounting type					fixed mounti	ng	
Environmental cond	itions						
Ambient temperature	)						
<ul> <li>during operatio</li> </ul>	n / minimum		°C		-25		
<ul> <li>during operatio</li> </ul>	<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	C 80			
Certificates							
Reference code							
• acc. to DIN EN 61346-2				Q			
• acc. to DIN EN 81346-2				Q			
General Product Approval	EMC	Declaration Conformity		Shipj Appr		other	
r 11 r	other					other	
EHC		CE		GL			
LIIL		EG-Konf.		GL			
				51			

### 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/3VA11404EF460AA0

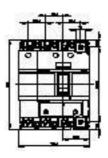
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11404EF460AA0/all

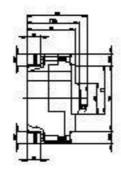
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11404EF460AA0

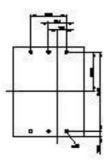
# CAx-Online-Generator

http://www.siemens.com/cax

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







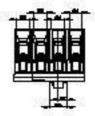


Figure similar

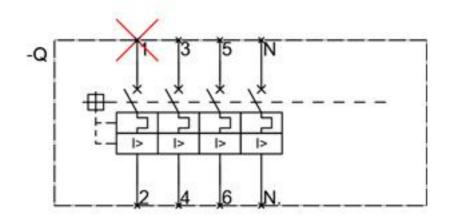


Figure similar

last modified:

21.10.2014