SIEMENS

Data sheet

3VA1150-4EE36-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS S ICU=36KA @ 415 V 3-POLE, LINE PROTECTION TM220, ATFM, IN=50A OVERLOAD PROTECTION IR=35A ...50A SHORT CIRCUIT PROTECTION II=10 X IN CABLE CONNECTION

Figure similar

Model		
product brand name	SEN ⁻	TRON
Product designation	Mold	led case circuit breaker
Design of the product	Line	protection
Product variations	Gene	eral Applications
Ground fault monitoring version	With	out
Design of the auxiliary release	With	out auxiliary release
Design of the auxiliary switch	With	out
Design of the operating mechanism	toggl	le handle
Type of the driving mechanism / motor drive	No	
Design of the overcurrent release	TM2	20

General technical data			
Number of poles		3	
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 Switching capacity class of the circuit breaker S Dissipation Active power loss • maximum W 14.6 Electricity Confinuous current / Rated value / maximum A 160 Continuous current / Rated value / maximum • of the current-dependent overload release / A Full-scale value • of the instantaneous short-circuit release / initial A value Main circuit Operating voltage • with AC / at 50/60 Hz / Rated value • for DC / Rated value • at 40 °C / Rated value • at 60 °C / Rated value • at 65 °C / Rated value • at 70 °C / Rated value • at 7	Protection class IP		IP40
Switching capacity Switching capacity class of the circuit breaker S Dissipation Active power loss • maximum W 14.6 Electricity Continuous current / Rated value / maximum	Protection class IP / on the front		IP40
Switching capacity class of the circuit breaker Active power loss • maximum * maximum	Protective function of the overcurrent release	-	Ц
Switching capacity class of the circuit breaker Active power loss • maximum * maximum	Switching capacity		
Active power loss			S
Active power loss • maximum Maximum Maxi	Dissipation		
Continuous current / Rated value / maximum	Active power loss		
Continuous current / Rated value / maximum	• maximum	W	14.6
Continuous current / Rated value Adjustable response value current of the current-dependent overload release / Full-scale value of the instantaneous short-circuit release / initial value Main circuit Operating voltage with AC / at 50/60 Hz / Rated value of or DC / Rated value of C / Rated value A 50 Operating current of at 50 °C / Rated value A 50 of A 48 of 60 °C / Rated value A 48 of 60 °C / Rated value A 48 of 60 °C / Rated value A 46 of 70 °C / Rated value A 45 Auxiliary circuit Number of CO contacts / for auxiliary contacts Osustability Suitability Suitability For use Adjustable parameters Adjustable parameters Adjustable response value current of I-trip / Full-scale value A 10	Electricity		
Adjustable response value current • of the current-dependent overload release / Full-scale value • of the instantaneous short-circuit release / initial value Main circuit Operating voltage • with AC / at 50/60 Hz / Rated value • for DC / Rated value Operating current • at 40 °C / Rated value • at 50 °C / Rated value • at 50 °C / Rated value • at 50 °C / Rated value • at 60 °C / Rated value • at 70 °C / Rated value • at 70 °C / Rated value A 45 Auxiliary circuit Number of CO contacts / for auxiliary contacts O Suitability Suitability for use system protection Adjustable parameters Adjustable response value current • of l-trip / Full-scale value • for N-conductor protection / initial value A 10	Continuous current / Rated value / maximum	Α	160
of the current-dependent overload release / Full-scale value of the instantaneous short-circuit release / initial value Main circuit Operating voltage with AC / at 50/60 Hz / Rated value of or DC / Rated value voluments Operating current at 40 °C / Rated value voluments at 50 °C / Rated value at 50 °C / Rated value at 50 °C / Rated value at 60 °C / Rated value at 60 °C / Rated value at 60 °C / Rated value at 65 °C / Rated value at 70 °C / Rated value A 46 at 70 °C / Rated value A 45 Auxiliary circuit Number of CO contacts / for auxiliary contacts O Suitability Suitability Suitability for use system protection Adjustable parameters Adjustable response value current of I-trip / Full-scale value of I-t	Continuous current / Rated value	Α	50
Full-scale value • of the instantaneous short-circuit release / initial value Main circuit Operating voltage • with AC / at 50/60 Hz / Rated value • for DC / Rated value Operating current • at 40 °C / Rated value A 50 • at 55 °C / Rated value • at 55 °C / Rated value • at 60 °C / Rated value • at 65 °C / Rated value A 48 • at 65 °C / Rated value A 46 • at 70 °C / Rated value A 45 Auxiliary circuit Number of CO contacts / for auxiliary contacts O Suitability Suitability Suitable parameters Adjustable response value current • of I-trip / Full-scale value A 10 • for N-conductor protection / initial value A 0	Adjustable response value current		
Main circuit Operating voltage • with AC / at 50/60 Hz / Rated value • for DC / Rated value • at 40 °C / Rated value • at 40 °C / Rated value • at 50 °C / Rated value • at 60 °C / Rated value • at 60 °C / Rated value • at 60 °C / Rated value • at 65 °C / Rated value • at 70 °C / Rated value A 45 Auxiliary circuit Number of CO contacts / for auxiliary contacts 0 Suitability Suitability Suitabile parameters Adjustable parameters Adjustable parameters Adjustable response value current • of I-trip / Full-scale value • for N-conductor protection / initial value A 10		Α	1
Operating voltage • with AC / at 50/60 Hz / Rated value • for DC / Rated value V 500 Operating current • at 40 °C / Rated value A 50 • at 55 °C / Rated value A 49 • at 60 °C / Rated value A 48 • at 65 °C / Rated value A 46 • at 70 °C / Rated value A 45 Auxiliary circuit Number of CO contacts / for auxiliary contacts O Suitability Suitabile parameters Adjustable response value current • of I-trip / Full-scale value • for N-conductor protection / initial value A 40 • o 0		Α	10
with AC / at 50/60 Hz / Rated value for DC / Rated value for DC / Rated value	Main circuit		
for DC / Rated value Operating current at 40 °C / Rated value at 50 °C / Rated value at 55 °C / Rated value at 65 °C / Rated value at 60 °C / Rated value at 66 °C / Rated value at 65 °C / Rated value at 65 °C / Rated value at 67 °C / Rated value at 67 °C / Rated value A 46 at 70 °C / Rated value A 45 Auxiliary circuit Number of CO contacts / for auxiliary contacts O Suitability Suitability for use Adjustable parameters Adjustable response value current of I-trip / Full-scale value for N-conductor protection / initial value A 0	Operating voltage		
Operating current • at 40 °C / Rated value • at 50 °C / Rated value • at 55 °C / Rated value • at 60 °C / Rated value • at 65 °C / Rated value • at 65 °C / Rated value • at 65 °C / Rated value • at 70 °C / Rated value A 45 Auxiliary circuit Number of CO contacts / for auxiliary contacts O Suitability Suitability Suitabile parameters Adjustable parameters Adjustable response value current • of I-trip / Full-scale value • for N-conductor protection / initial value A 50 A 48 A 46 A 46 B 45 A 45 A 45 A 45 A 45 A 40 A 45 A 40	• with AC / at 50/60 Hz / Rated value	V	690
at 40 °C / Rated value at 50 °C / Rated value at 55 °C / Rated value at 60 °C / Rated value at 65 °C / Rated value at 65 °C / Rated value at 65 °C / Rated value At 48 at 65 °C / Rated value At 46 at 70 °C / Rated value At 45 Auxiliary circuit Number of CO contacts / for auxiliary contacts Suitability Suitability Suitabile parameters Adjustable parameters Adjustable response value current of I-trip / Full-scale value for N-conductor protection / initial value At 50 At 49 At 48 At 48 At 46 At 50 At 45 At 50	• for DC / Rated value	V	500
at 50 °C / Rated value at 55 °C / Rated value at 60 °C / Rated value at 60 °C / Rated value at 65 °C / Rated value at 65 °C / Rated value at 70 °C / Rated value A 45 Auxiliary circuit Number of CO contacts / for auxiliary contacts Suitability Suitability Suitabile parameters Adjustable parameters Adjustable response value current of I-trip / Full-scale value for N-conductor protection / initial value A 50 A 49 48 48 40 40 45 A 40 A	Operating current		
at 55 °C / Rated value at 60 °C / Rated value at 60 °C / Rated value at 65 °C / Rated value At 48 at 65 °C / Rated value At 45 Auxiliary circuit Number of CO contacts / for auxiliary contacts Suitability Suitability for use Adjustable parameters Adjustable response value current of I-trip / Full-scale value At 49 At 48 At 48 At 46 At 45 Auxiliary circuit Suitability Suitability Adjustable parameters Adjustable parameters Adjustable response value current of I-trip / Full-scale value At 10 For N-conductor protection / initial value At 0	• at 40 °C / Rated value	Α	50
at 60 °C / Rated value at 65 °C / Rated value at 70 °C / Rated value A 46 at 70 °C / Rated value A 45 Auxiliary circuit Number of CO contacts / for auxiliary contacts Suitability Suitability for use Adjustable parameters Adjustable response value current of I-trip / Full-scale value for N-conductor protection / initial value A 48 A 46 A 45 A 45	• at 50 °C / Rated value	Α	50
at 65 °C / Rated value at 70 °C / Rated value A 45 Auxiliary circuit Number of CO contacts / for auxiliary contacts Suitability Suitability for use Adjustable parameters Adjustable response value current of I-trip / Full-scale value for N-conductor protection / initial value A 46 A 45 Auxiliary circuit O Suitability Suitability A 10 of I-trip / Full-scale value A 0	• at 55 °C / Rated value	Α	49
at 70 °C / Rated value A 45 Auxiliary circuit Number of CO contacts / for auxiliary contacts 0 Suitability Suitability for use Adjustable parameters Adjustable response value current • of I-trip / Full-scale value • for N-conductor protection / initial value A 45	• at 60 °C / Rated value	Α	48
Auxiliary circuit Number of CO contacts / for auxiliary contacts Suitability Suitability for use Adjustable parameters Adjustable response value current • of I-trip / Full-scale value • for N-conductor protection / initial value A 0	• at 65 °C / Rated value	Α	46
Number of CO contacts / for auxiliary contacts Suitability Suitability for use Adjustable parameters Adjustable response value current • of I-trip / Full-scale value • for N-conductor protection / initial value O System protection A 10 A 0	• at 70 °C / Rated value	Α	45
Number of CO contacts / for auxiliary contacts Suitability Suitability for use Adjustable parameters Adjustable response value current • of I-trip / Full-scale value • for N-conductor protection / initial value O System protection A 10 A 0	Auxiliary circuit		
Suitability for use system protection Adjustable parameters Adjustable response value current • of I-trip / Full-scale value • for N-conductor protection / initial value System protection A 10			0
Suitability for use system protection Adjustable parameters Adjustable response value current • of I-trip / Full-scale value • for N-conductor protection / initial value System protection A 10	Suitability		
Adjustable response value current • of I-trip / Full-scale value • for N-conductor protection / initial value A 10 A 0			system protection
 of I-trip / Full-scale value for N-conductor protection / initial value A 0 	Adjustable parameters		
• for N-conductor protection / initial value A 0	Adjustable response value current		
	• of I-trip / Full-scale value	Α	10
• for N-conductor protection / Full-scale value A 0	• for N-conductor protection / initial value	Α	0
	• for N-conductor protection / Full-scale value	Α	0
Adjustable response value current / of the current- A 0.7 dependent overload release / initial value	-	Α	0.7
Product details	Product details		
Product component			

		N-
• Trip indicator		No
display		No
Voltage trigger		No
undervoltage release		No
 undervoltage release with leading contact 		No
Product property		
 for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof 		No
Product expansion / optional / motor drive		Yes
Product function		
Product function		
Intrinsic device protection		Yes
• communication function		No
Phase failure detection		No
 other measurement function 		No
Accessories		
Manufacturer article number / of the supplied basic		3VA1150-4EE36-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity		
(lcs)		
• 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 (lcm)		
• at 240 V / Rated value		121
	kA	
at 415 V / Rated value	kA kA	75.6
at 415 V / Rated valueat 690 V / Rated value		
	kA	75.6
at 690 V / Rated value Connections Arrangement of electrical connectors / for main	kA	75.6
at 690 V / Rated value Connections	kA	75.6 7.5

- 60			1 \(/ 1 \)	70 mm²)	
of the round conductor terminal / str			·	5 - 70 mm²)	
Type of electrical connection / for main cu	irrent circuit		Box ter	minal	
Mechanical Design					
Height		mm	130		
Width		mm	76.2		
Depth		mm	70		
Mounting type			fixed m	ounting	
Environmental conditions					
Ambient temperature					
during operation / minimum		°C	-25		
during operation / maximum		°C	70		
• during storage / minimum		°C	-40		
during storage / maximum		°C	80		
Certificates					
Equipment marking					
• acc. to DIN EN 61346-2			Q		
• acc. to DIN EN 81346-2			Q		
General EMC	Declaration	n of	Shipping Ap	proval	other
Product	Conformity	,			
Approval					
other			2 8		other
LHI	(+		$\Phi \nabla$	GL	
LIIL	EG-Konf.		DNV	GL	

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/3VA11504EE360AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11504EE360AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11504EE360AA0

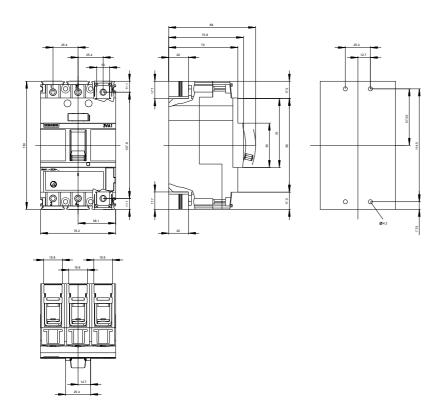
CAx-Online-Generator

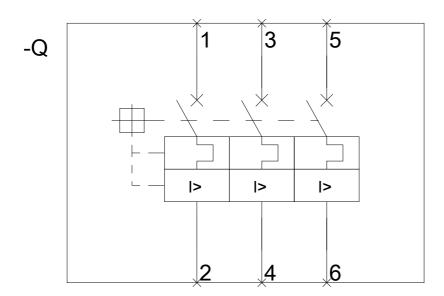
http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv

GL





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