SIEMENS

Data sheet

3VA1132-6ED42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS H ICU=70KA @ 415 V 4-POLE, LINE PROTECTION TM210, FTFM, IN=32A OVERLOAD PROTECTION IR=32A FIXED SHORT CIRCUIT PROTECTION II=10 X IN NEUTRAL UNPROTECTED BUSBAR CONNECTION

Figure similar

Model				
product brand name	SENTRON			
Product designation	Molded case circu	iit breaker		
Design of the product	Line protection			
Product variations	General Application	ons		
Ground fault monitoring version	Without			
Design of the auxiliary release	Without auxiliary r	elease		
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	TM210			

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 / on the front Protective function of the overcurrent release LI Switching capacity Switching capacity Switching capacity class of the circuit breaker H Dissipation Active power loss • maximum W 10.6 Electricity Continuous current / Rated value / maximum A Continuous current / Rated value A 32 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 • at 40 °C / Rated value • at 50 °C / Rated value	
Switching capacity Switching capacity class of the circuit breaker Dissipation Active power loss • maximum W 10.6 Electricity Continuous current / Rated value / maximum Continuous current / Rated value A 32 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 A 32	
Switching capacity class of the circuit breaker Dissipation Active power loss • maximum W 10.6 Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value A 32 Adjustable response value current • of the current-dependent overload release / A 1 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 32	
Switching capacity class of the circuit breaker Dissipation Active power loss • maximum W 10.6 Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value A 32 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 A 32	
Active power loss • maximum W 10.6 Electricity Continuous current / Rated value / maximum Continuous current / Rated value A 32 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 A 10 A 32	
Active power loss • maximum W 10.6 Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value A 32 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 A 32	
Continuous current / Rated value / maximum A 160 Continuous current / Rated value A 32 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 V 690 • for DC / Rated value V 600 Operating current • at 40 °C / Rated value A 32	
Continuous current / Rated value / maximum A 160 Continuous current / Rated value A 32 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 V 690 of or DC / Rated value V 600 Operating current at 40 °C / Rated value A 32	
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 tor DC / Rated value Operating current at 40 °C / Rated value A 32	
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 A 1 10 10 10 10 10 10 10 10 10	
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 A 10 V 690 V 690 A 32	
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 10 V 690 A 32	
Value Main circuit Operating voltage ● with AC / at 50/60 Hz / Rated value V ● for DC / Rated value V Operating current ● at 40 °C / Rated value A 32	
Operating voltage • with AC / at 50/60 Hz / Rated value • for DC / Rated value Operating current • at 40 °C / Rated value V 690 V 600	
 with AC / at 50/60 Hz / Rated value for DC / Rated value Operating current at 40 °C / Rated value A 32 	
for DC / Rated value Operating current at 40 °C / Rated value V 600 A 32	
Operating current • at 40 °C / Rated value A 32	
• at 40 °C / Rated value A 32	
• at 50 °C / Pated value	
at 50 G / Nation value	
• at 55 °C / Rated value A 31.04	
• at 60 °C / Rated value A 31	
• at 65 °C / Rated value A 30	
• at 70 °C / Rated value A 30	
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 A 10	
• for N-conductor protection / initial value A 0	
• for N-conductor protection / Full-scale value A 0	
Adjustable response value current / of the current- A 1 dependent overload release / initial value	
Product details	
Product component	

● Trip indicator		No
• Trip indicator		No
• display		No
Voltage trigger		
undervoltage release		No
undervoltage release with leading contact		No
Product property		
• for neutral conductors /		No
upgradeable/retrofittable / Short-circuit and overload proof		
Product expansion / optional / motor drive		Yes
Troduct expansion, optional, motor and		1.00
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		3VA1132-6ED42-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)		
• 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		
Connections Arrangement of electrical connectors / for main		Front terminal
current circuit		
Type of connectable conductor cross-section		
Type of confidence confidence cross coolien		

• for flat-bar terminal connection / minimum	12 x 0
• for flat-bar terminal connection / maximum	17 x 6.5
Type of electrical connection / for main current circuit	Lug terminal

Mechanical Design				
Height	mm	130		
Width	mm	101.6		
Depth	mm	70		
Mounting type		fixed mounting		

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

Q • acc. to DIN EN 61346-2 Q • acc. to DIN EN 81346-2

General Product Approval	EMC	Declaration of	Shipping Approval
		Conformity	











other

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/3VA11326ED420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11326ED420AA0/all

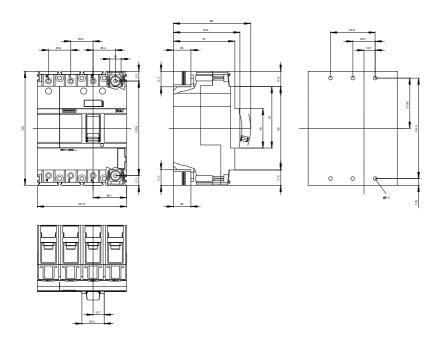
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11326ED420AA0

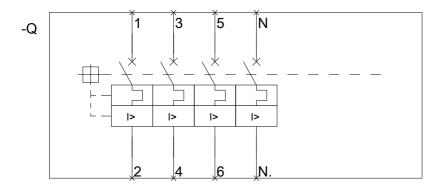
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv





last modified: 11.03.2015