SIEMENS

Datasheet

3VA1080-2ED42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 100 BREAKING CAPACITY CLASS B ICU=16KA @ 415 V 4-POLE, LINE PROTECTION TM210, FTFM, IN=80A OVERLOAD PROTECTION IR=80A FIXED SHORT CIRCUIT PROTECTION II=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	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		
Protective function of the overcurrent release		Li
Switching capacity	_	
Switching capacity class of the circuit breaker		В
Dissipation		
Active power loss	1 0/	40.0
• maximum	W	19.2
Electricity		
Operating current / at 45 °C / Rated value	Α	80
Continuous current / Rated value / maximum	Α	100
Continuous current		
Rated value	Α	80
Adjustable response value current		
of the current-dependent overload release / Full scale solver	Α	1
Full-scale value	Δ.	40
 of the instantaneous short-circuit release / initial value 	Α	10
Net weight	g	1 200
1.00.00	9	1-20
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	Α	80
• at 50 °C / Rated value	Α	80
• at 55 °C / Rated value	Α	78
● at 60 °C / Rated value	Α	77
● at 65 °C / Rated value	Α	75
• at 70 °C / Rated value	Α	74
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	Α	10
• for N-conductor protection / initial value	Α	0
• for N-conductor protection / Full-scale value	Α	0

Appearance Product details Product component Trip indicator display Voltage trigger undervoltage release undervoltage release with leading contact Product property for neutral conductors / ugradeable/retrofitable / Short-circuit and overload proof Product expansion optional — motor drive No Product function Product function Product function Product function Optional — motor drive No Accessories Manufacturer article number / of the suppiled basic switch Short circuit Operational short-circuit current breaking capacity (Ica) at 240 V / Rated value at 500 V / Rated value at 690 V / Rated value	esponse value current / of the current- overload release / initial value	1
Product component Trip indicator display Voltage trigger undervoltage release undervoltage release with leading contact Product property for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof Product expansion optional — motor drive Product function Product function Product function Product function Product function Product function Intrinsic device protection other measurement function No Accessories Manufacturer article number / of the supplied basic switch Short circuit Operational short-circuit current breaking capacity (Ics) at 240 V / Rated value at 440 V / Rated value at 440 V / Rated value at 440 V / Rated value at 4500 V / Rated value at 690 V / Rated value capacity (Icu) Maximum short-circuit current breaking capacity (Icu)		
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Manufacturer article number / of the supplied basic switch Short circuit Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu)	measurement function	No
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at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value kA at 690 V / Rated value kA 5 Maximum short-circuit current breaking capacity (Icu)	V / Rated value	25
 at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value kA tA <	7710100 70100	
at 500 V / Rated value at 690 V / Rated value kA 5 Maximum short-circuit current breaking capacity (Icu)		
at 690 V / Rated value KA 5	V / Hatoa Valao	
Maximum short-circuit current breaking capacity (Icu)	. , , , , , , , , , , , , , , , , , , ,	
S. = . S. / / 1.0100 F0100		25
at 415 V / Rated value kA 16	. , , , , , , , , , , , , , , , , , , ,	
at 440 V / Rated value kA 8		8
• at 500 V / Rated value kA 5	T / Titalou Taliao	
• at 690 V / Rated value kA 5	7710100 70100	
Short-circuit current making capacity (Icm)		

• at 240 V / Rated value	kA	52.5
• at 415 V / Rated value	kA	32
• 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			
• for flat-bar terminal connection / minimum	12 x 0		
• for flat-bar terminal connection / maximum	17 x 6.5		
Design of the 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				
Reference code				
• acc. to DIN EN 61346-2	Q			
• acc. to DIN EN 81346-2	Q			

General Produc	t Approval	EMC	Declaration of Conformity	Shipping Approval	other	
		other			other	









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/3VA10802ED420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3VA10802ED420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA10802ED420AA0

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

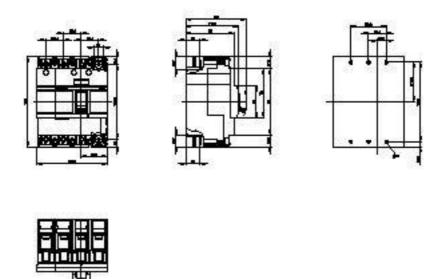


Figure similar

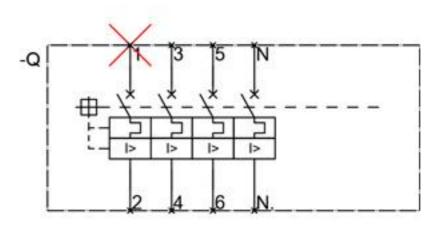


Figure similar

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