SIEMENS

Data sheet

3VA2025-6KQ32-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 100 BREAKING CAPACITY CLASS H ICU=85KA @ 415 V 3POLE, LINE PROTECTION ETU860, LSIG, IN=25A OVERLOAD PROTECTION IR=10A ...25A SHORT CIRCUIT PROTECTION ISD=0,6..10X IN, II=1,5..12X IN NEUTRAL PROTECTION OPTIONAL WITH EXT. CT,UPTO 160% GROUNDFAULT, SWITCHABLE IG=0,2... 1 X IN, TG=0,050,8MS BUSBAR CONNECTION

Model		
product brand name		SENTRON
Product designation	-	Molded case circuit breaker
Design of the product		Line protection
Product variations		Selective Applications
Ground fault monitoring version	-	Summation current formation L-conductor
Design of the auxiliary release	-	without auxiliaryrelease
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	-	ETU860
General technical data		
Number of poles		3
Trip class / of the L-trip / with I2t characteristic / initial value		0.5
Trip class / of the L-trip / with I2t characteristic / Full- scale value		25
Electrical endurance (switching cycles)		
• at AC-1 / at 380/415 V / at 50/60 Hz		12 000
Total disconnection time / for G-tripping / with standard characteristic / initial value	s	0.05
Total disconnection time / for G-tripping / with standard characteristic / Full-scale value	S	0.8
circuit-breaker / Design		3VA
Mechanical service life (switching cycles) / typical		20 000

Insulation voltage / Rated value V 800 Protection class IP IP40 Protection class IP / on the front IP40 Switching capacity Edited Switching capacity Switching capacity IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Voltage		
Protection class IP IP40 Protection class IP / on the front IP40 Protective function of the overcurrent release LSIG Switching capacity Switching capacity Switching capacity class of the circuit breaker H Dissipation Active power loss • maximum W 0.84 Electricity Continuous current / Rated value / maximum A 100 Continuous current / Rated value A 25 Adjustable response value current / of the instantaneous short-circuit release / initial value A 1.5 Operating voltage • with AC / at 50/60 Hz / Rated value V 690 Operating voltage • with AC / at 50/60 Hz / Rated value V 690 Operating voltage a 40 °C / Rated value A 25 at 60 °C / Rated value A 25 • at 60 °C / Rated value A 25 A 25 at 60 °C / Rated value A 25 • at 70 °C / Rated value A 25 A 25 Auxiliary contacts 0 Number of NC contacts / for auxiliary contacts 0 0 Number of NC contacts / for auxiliary contacts 0 Suitability Suitability for use </td <td></td> <td>V</td> <td>800</td>		V	800
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Auxiliary circuit 0 Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Suitability 0 Suitability system protection Adjustable parameters Adjustable response value current • for G-tripping / with l2t characteristic / initial value A 0.6 • for G-tripping / with l2t characteristic / Full-scale value A 1 • for G-tripping / with standard characteristic / A 0.6 0.6 • for G-tripping / with standard characteristic / A 1 1	• at 65 °C / Rated value	A	25
Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Suitability 0 Suitability for use system protection Adjustable parameters Adjustable response value current • for G-tripping / with 12t characteristic / initial value A • for G-tripping / with 12t characteristic / Full-scale value A • for G-tripping / with standard characteristic / Full-scale value A • for G-tripping / with standard characteristic / A 0.6	• at 70 °C / Rated value	А	25
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Suitability for use system protection Adjustable parameters Adjustable response value current • for G-tripping / with l2t characteristic / initial value A • for G-tripping / with l2t characteristic / Full-scale value A • for G-tripping / with standard characteristic / Full-scale value A • for G-tripping / with standard characteristic / Full-scale value A • for G-tripping / with standard characteristic / A 0.6 • for G-tripping / with standard characteristic / A 0.6	Suitability		
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 for G-tripping / with 12t characteristic / initial value for G-tripping / with 12t characteristic / Full-scale value for G-tripping / with standard characteristic / A 			
value A 1 • for G-tripping / with 12t characteristic / Full-scale value A 0.6 • for G-tripping / with standard characteristic / initial value A 0.6 • for G-tripping / with standard characteristic / initial value A 1	•		
 value for G-tripping / with standard characteristic / initial value for G-tripping / with standard characteristic / A 1 		A	0.6
 initial value for G-tripping / with standard characteristic / A 1 		A	1
		A	0.6
Full-scale value	 for G-tripping / with standard characteristic / Full-scale value 	A	1

 of I-trip / Full-scale value 	А	12
 of the short-time delayed short-circuit release / initial value 	А	0.6
 of the short-time delayed short-circuit release / Full-scale value 	А	10
 of S-trip / with standard characteristic / initial value 	A	0.6
 of S-trip / with standard characteristic / Full- scale value 	А	10
Adjustable delay time	_	
 for G-tripping / with I2t characteristic / initial value 	S	0.05
 for G-tripping / with I2t characteristic / Full-scale value 	S	0.8
• of S-trip / with I2t characteristic / initial value	s	0.05
 of S-trip / with I2t characteristic / Full-scale value 	S	0.5
 of S-trip / with standard characteristic / initial value 	S	0.05
 of S-trip / with standard characteristic / Full- scale value 	S	0.5
Adjustable response value current / of the current- dependent overload release / initial value	A	0.4
Product details		
Product component		
• Trip indicator		No
● display		Yes
 undervoltage release 		No
Product property	-	
 of the circuit breaker with tripping unit / Tripping characteristic adjustable 		Yes
 for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof 		Yes
Product expansion / optional / motor drive		Yes
Product function		
Product function		
 Intrinsic device protection 		Yes
 communication function 		Yes
 Phase failure detection 		No
 other measurement function 		Yes

Accessories

Manufacturer article number / of the supplied basic switch

Short circuit				
Operational short-circuit current breaking capacity				
(lcs)				
• at 240 V / Rated value	kA	110		
• at 415 V / Rated value	kA	85		
• at 440 V / Rated value	kA	85		
• at 500 V / Rated value	kA	55		
• at 690 V / Rated value	kA	2		
Maximum short-circuit current breaking capacity (Icu)	Maximum short-circuit current breaking capacity (Icu)			
• at 240 V / Rated value	kA	110		
• at 415 V / Rated value	kA	85		
• at 440 V / Rated value	kA	85		
• at 500 V / Rated value	kA	55		
• at 690 V / Rated value	kA	2		
Short-circuit current making capacity (Icm)				
• at 240 V / Rated value	kA	242		
• at 415 V / Rated value	kA	187		
• at 440 V / Rated value	kA	187		
• at 500 V / Rated value	kA	121		
• at 690 V / Rated value	kA	3		

Connections	
Arrangement of electrical connectors / for main	Front terminal
current circuit	
Type of connectable conductor cross-section	
 for flat-bar terminal connection / minimum 	13 x 1 mm
 for flat-bar terminal connection / maximum 	25 x 8.5
Type of electrical connection / for main current circuit	Lug terminal

Mechanical Design		
Height	mm	181
Width	mm	105
Depth	mm	107
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 mark	ing					
 acc. to DIN 	I EN 61346-2			Q		
● acc. to DIN	I EN 81346-2			Q		
General Proc	duct Approval		EM	С	Declaration of	Shipping
					Conformity	Approval
	VDE	EAC		other	EG-Konf.	ĴÅ DNV DNV

Shipping	other
Approval	
	other
GL	

GL

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

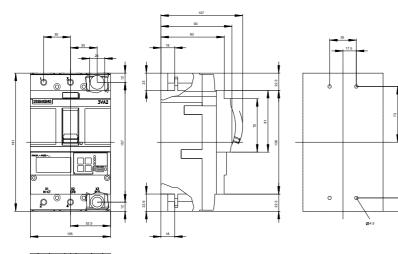
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA20256KQ320AA0

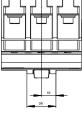
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA20256KQ320AA0/all

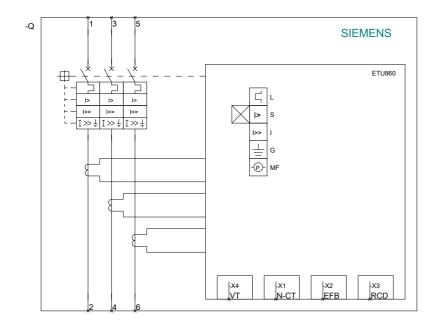
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA20256KQ320AA0

CAx-Online-Generator http://www.siemens.com/cax

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







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