SIEMENS

Data sheet

3VA2116-7KQ36-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS C ICU=110KA @ 415 V 3POLE, LINE PROTECTION ETU860, LSIG, IN=160A OVERLOAD PROTECTION IR=64A ...160A SHORT CIRCUIT PROTECTION ISD=0,6..10X IN, II=1,5..10X IN NEUTRAL PROTECTION OPTIONAL WITH EXT. CT,UPTO 160% GROUNDFAULT, SWITCHABLE IG=0,2... 1 X IN, TG=0,050,8MS CABLE 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			

Voltage V 800 Protection class Protection class IP IP40 Protection class IP / on the front IP40 Protection class IP / on the front IP40 Protective function of the overcurrent release LSIG Switching capacity Switching capacity class of the circuit breaker C Dissipation Active power loss maximum W 25.5 Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value / of the instantaneous short-circuit release / initial value A 1.5	
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Adjustable response value current / of the A 1.5	
Main circuit	
Operating voltage	
• with AC / at 50/60 Hz / Rated value V 690	
Operating current	
• at 40 °C / Rated value A 160	
• at 50 °C / Rated value A 160	
• at 60 °C / Rated value A 160	
• at 65 °C / Rated value A 160	
• at 70 °C / Rated value A 160	
Auxiliary circuit Number of NC contacts / for auxiliary contacts 0	
Number of NO contacts / for auxiliary contacts 0 0 0	
Suitability	
Suitability for use system protection	
Adjustable parameters	
Adjustable response value current	
for G-tripping / with I2t characteristic / initial A O.2 value	
for G-tripping / with I2t characteristic / Full-scale A 1 value	
• for G-tripping / with standard characteristic / A 0.2 initial value	
• for G-tripping / with standard characteristic / A 1 Full-scale value	

 of I-trip / Full-scale value 	А	12
 of the short-time delayed short-circuit release / initial value 	A	0.6
 of the short-time delayed short-circuit release / Full-scale value 	A	10
 of S-trip / with standard characteristic / initial value 	A	0.6
 of S-trip / with standard characteristic / Full- scale value 	A	10
Adjustable delay time	-	
 for G-tripping / with l2t 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 /		Yes
upgradeable/retrofittable / Short-circuit and overload proof		
Product expansion / optional / motor drive		Yes
Product function		
Product function		
 Intrinsic device protection 		Yes
• • • • • • • • • • • • • • • • • • •		Yes
 communication function 		Tes
Communication functionPhase failure detection		No

Accessories

Manufacturer article number / of the supplied basic switch

Short circuit		
Operational short-circuit current breaking capacity		
(Ics)		
• at 240 V / Rated value	kA	150
• at 415 V / Rated value	kA	110
• at 440 V / Rated value	kA	110
• at 500 V / Rated value	kA	85
• at 690 V / Rated value	kA	2.5
Maximum short-circuit current breaking capacity (Icu)	-	
• at 240 V / Rated value	kA	150
• at 415 V / Rated value	kA	110
• at 440 V / Rated value	kA	110
• at 500 V / Rated value	kA	85
• at 690 V / Rated value	kA	2.5
Short-circuit current making capacity (Icm)		
• at 240 V / Rated value	kA	330
• at 415 V / Rated value	kA	242
• at 440 V / Rated value	kA	242
• at 500 V / Rated value	kA	187
• at 690 V / Rated value	kA	3.75

Connections	
Arrangement of electrical connectors / for main	Front terminal
current circuit	
Type of connectable conductor cross-section	
 of the round conductor terminal / stranded 	1 x (6-120 mm²)
Type of electrical connection / for main current circuit	Box 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 / minimum 	C	-25
 during operation / maximum 	°C	70
• during storage / minimum	°C	-40
 during storage / maximum 	°C	80

Certificates

Equipment marking

acc. to DINacc. to DIN				Q Q		
General Prod	uct Approval		EM	С	Declaration of Conformity	Shipping Approval
	VDE	EAC		other	EG-Konf.	
Shipping Approval	other					
	other					

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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/3VA21167KQ360AA0

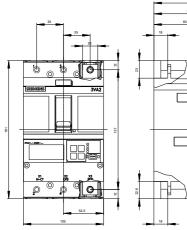
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21167KQ360AA0/all

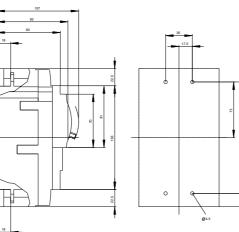
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA21167KQ360AA0

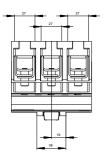
CAx-Online-Generator http://www.siemens.com/cax

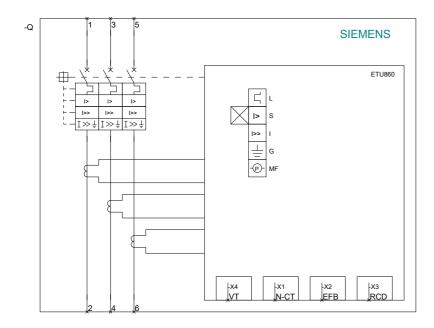
Tender specifications

http://ausschreibungstexte.siemens.com/tiplv









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