SIEMENS

Data sheet

3VA2140-7KQ36-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS C ICU=110KA @ 415 V 3POLE, LINE PROTECTION ETU860, LSIG, IN=40A OVERLOAD PROTECTION IR=16A ...40A 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 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		
Insulation voltage / Rated value	V	800
Protection class		
Protection class IP	_	IP40
Protection class IP / on the front	-	IP40
Protective function of the overcurrent release	_	LSIG
	_	
Switching capacity Switching capacity class of the circuit breaker	_	С
		5
Dissipation	_	
Active power loss	10/	4.0
• maximum	W	1.6
Electricity		
Continuous current / Rated value / maximum	А	160
Continuous current / Rated value	А	40
Adjustable response value current / of the	A	1.5
instantaneous short-circuit release / initial value		
Main circuit		
Operating voltage		
• with AC / at 50/60 Hz / Rated value	V	690
Operating current		
• at 40 °C / Rated value	A	40
• at 50 °C / Rated value	A	40
• at 60 °C / Rated value	A	40
• at 65 °C / Rated value	A	40
● at 70 °C / Rated value	A	40
Auxiliary circuit		
Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts		0
Suitability		
Suitability for use		system protection
Adjustable parameters		
Adjustable response value current		
• for G-tripping / with I2t characteristic / initial	А	0.4
value		
 for G-tripping / with I2t characteristic / Full-scale value 	A	1
 for G-tripping / with standard characteristic / initial value 	A	0.4
 for G-tripping / with standard characteristic / Full-scale value 	А	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 	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 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 /		Yes
upgradeable/retrofittable / Short-circuit and overload proof		
Product expansion / optional / motor drive		Yes
Product function		
Product function		
 Intrinsic device protection 		Yes
 communication function 		Yes
 Phase 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 / 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	luct Approval		EMC	Declaration of Conformity	Shipping Approval
	UDE VDE	EHC	other	CE EG-Konf.	
Shipping Approval	other				
	other				



GL

Eurthor	into	rmation
-uriner		

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/3VA21407KQ360AA0

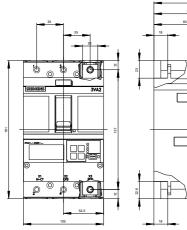
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21407KQ360AA0/all

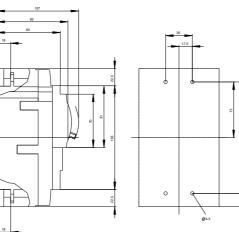
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA21407KQ360AA0

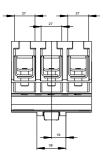
CAx-Online-Generator http://www.siemens.com/cax

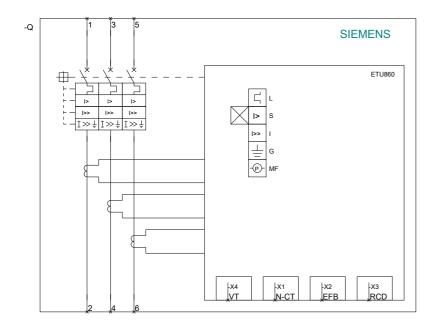
Tender specifications

http://ausschreibungstexte.siemens.com/tiplv









last modified:

11.03.2015