SIEMENS

Data sheet

3VA2010-8HM36-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 100 BREAKING CAPACITY CLASS L ICU=150KA @ 415 V 3POLE, LINE PROTECTION ETU330, LIG, IN=100A OVERLOAD PROTECTION IR=40A ...100A SHORT CIRCUIT PROTECTION II=1,5...12 X IN GROUNDFAULTPROTECTION IG=0,2... 1 X IN, TG=0,1/0,3MS CABLE CONNECTION

Figure similar

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		ETU330			
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		17			
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	0.1			
Total disconnection time / for G-tripping / with standard characteristic / Full-scale value	S	0.3			
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		LIG
	_	
Switching capacity	_	
Switching capacity class of the circuit breaker		L
Dissipation		
Active power loss		
• maximum	W	7.7
Electricity		
Continuous current / Rated value / maximum	A	100
Continuous current / Rated value	А	100
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 	А	100
● at 50 °C / Rated value	А	100
• at 60 °C / Rated value	А	100
• at 65 °C / Rated value	А	100
• at 70 °C / Rated value	А	100
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 standard characteristic /	А	0.2
initial value		
• for G-tripping / with standard characteristic /	А	1
Full-scale value		
 of I-trip / Full-scale value 	А	12
Adjustable response value current / of the current-	А	0.4
dependent overload release / initial value		

Product component Trip indicator display No vundervoltage release No Product property of the circuit breaker with tripping unit / Tripping characteristic adjustable for neutral conductors / upgradeable/retrofitable / Short-circuit and overload proof Product function for neutral conductors / iupgradeable/retrofitable / Short-circuit and overload proof Product function Intrinsic device protection for measurement function other measurement function other measurement function No Accessories Short circuit Current breaking capacity (ics) at 240 V / Rated value kA 150 at 440 V / Rated value kA 150 <li< th=""><th>Product details</th><th></th><th></th></li<>	Product details		
display durdervoltage releaseNoProduct properly of the circuit breaker with tripping unit / Tripping otharacteristic adjustableYes• for neutral conductors / upgradeable/retrolittable / Short-circuit and overload proofYesProduct expansion / optional / motor driveYesProduct functionYesProduct functionNo• Intrinsic device protectionYes• Intrinsic device protectionNo• Or measurement functionNo• Other measurement functionNo• Other measurement functionNo• Other measurement functionSVA2010 atM36.0AAQ• at 240 V / Rated valueKA200• at 240 V / Rated valueKA150• at 415 V / Rated valueKA150• at 420 V / Rated			
undervoltage releaseNoProduct property• of the circuit breaker with tripping unit / Tripping characteristic adjustableYes• of the circuit breaker with tripping unit / Tripping characteristic adjustableNo• or neutral conductors / upgradeable/retrofittable / Short-circuit and overload proofYesProduct functionYes• Intrinsic device protectionYes• Intrinsic device protectionNo• Or phase failure detectionNo• orther measurement functionNo• other measurement functionNo• other measurement functionNo• other measurement functionShort-circuitProduct functionVacano-administripping• at 415 V / Rated valueKA200• at 440 V / Rated valueKA150• at 440 V / Rated valueKA150• at 450 V / Rated valueKA150• at 450 V / Rated valueKA150• at 450 V / Rated valueKA150• at 440 V / Rated valueKA	Trip indicator		No
Product properly of the circuit breaker with tripping unit / Tripping characteristic adjustable Yes • for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof No Product function Yes Product function Yes Product function Yes • Intrinsic device protection Yes • Intrinsic device protection No • other measurement function No • other measurement function No • other measurement function SVA2010-8HM366-0AA0 Short circuit Operational short-circuit current breaking capacity (ics) • at 240 V / Rated value KA 200 • at 415 V / Rated value KA 150 • at 420 V / Rated value KA 150 • at 420 V / Rated value KA 150 • at 420 V / Rated value KA 150 • at 420 V / Rated value KA 150 • at 440 V / Rated value KA 150 • at 440 V / Rated value KA 150 • at 440 V / Rated value KA 150 <td< td=""><td>• display</td><td></td><td>No</td></td<>	• display		No
• of the circuit breaker with tripping characteristic adjustableYes• for neutral conductors / upgradeable/introfittable / Short-circuit and overload proofNoProduct expansion / optional / motor driveYesProduct expansion / optional / motor driveYesProduct functionYes• Intrinsic device protectionYes• Intrinsic device protectionNo• Other measurement functionNo• other measurement functionNo• other measurement functionState State	 undervoltage release 		No
characteristic adjustableNo• or neutral conductors / upgradeable/retrofittable / Short-circuit and overlad proofYes• Product expansion / optional / motor driveYes• Product functionYes• Intrinsic device protectionNo• Intrinsic device protectionNo• Ormunication functionNo• Phase failure detectionNo• other measurement functionNo• Other measurement functionState Protection• other measurement functionKA• other measurement functionState Protection• other measurement functionKA• other measurement functionKA• other measurement functionState Protection• other measurement functionKA• other measurement functionKA• other measurement functionKA• other measurement functionKA<	Product property		
• for neutral conductors / upgradeable/retrofitable / Short-circuit and overload proofNoProduct expansion / optional / motor driveYesProduct functionYes• Intrinsic device protection • communication functionNo• Phase failure detection • other measurement functionNo• Other measurement functionNo• Other measurement functionNo• CoessoriesManufacturer article number / of the supplied basic witch• CoessoriesManufacturer article number / of the supplied basic witch• at 240 V / Rated valueKA• at 240 V / Rated value	 of the circuit breaker with tripping unit / Tripping 		Yes
Instruction Instruction Product expansion / optional / motor drive Yes Product function Intrinsic device protection Intrinsic device protection No Intrinsic device protection No Optional function No Product function No Optional function No Intrinsic device protection No Optional function No Accessories State detection Short circuit Ves Optional short-circuit current breaking capacity (ics) State device protection I at 240 V / Rated value KA 200 I at 240 V / Rated value KA 150 I at 350 V / Rated value KA 160 I at 420 V / Rated value KA 150 I at 420 V / Rated value KA 160 I at 430 V / Rated value KA 160 I at 440 V / Rated value KA 150 I at 440 V / Rated value KA 160 I at 450 V / Rated value KA 150 I at 450 V / Rated value KA 150 I	characteristic adjustable		
overload proofProduct expansion / optional / motor driveYesProduct function• Initrinsic device protectionNo• Ordnuct functionNo• Phase failure detectionNo• other measurement functionNo• other measurement functionKA• ot			No
Product expansion / optional / motor drive Yes Product function Product function Intrinsic device protection communication function Phase failure detection other measurement function No Product functor No Product random No Phase failure detection No other measurement function No Accessories 3VA2010-8HM36-0AA0 Short circuit Communication current breaking capacity (ics) at 240 V / Rated value KA 250 at 240 V / Rated value KA 150 at 440 V / Rated value KA 150 at 440 V / Rated value KA 150 at 450 V / Rated value KA 150 at 440 V / Rated value KA 150 at 450 V / Rated value KA 150 at 440 V / Rated value KA 150 at 440 V / Rated value KA 150 at 500 V / Rated value KA 150 at 690 V / Rated value			
Product function Product function Intrinsic device protection communication function Phase failure detection other measurement function No Accessories 3VA2010-8HM36-0AA0 Anufacturer article number / of the supplied basic switch 3VA2010-8HM36-0AA0 Anufacturer article number / of the supplied basic switch 3VA2010-8HM36-0AA0 Short circuit Operational short-circuit current breaking capacity (Ics) at 415 V / Rated value at 420 V / Rated value kA 150 at 440 V / Rated value kA 150 at 690 V / Rated value kA 150 at 440 V / Rated value kA 150 at 500 V / Rated value kA 150 at 690 V / Rated value kA 150 at 690 V / Rated value kA 150 at 690 V / Rated value kA 150 at 240 V / Rated value kA 150 at 440 V / Rated value kA 150 at 690 V / Rated value kA 150 at 240 V / Rated value kA 24 		-	Ver
Product function Yes Intrinsic device protection communication function Phase failure detection other measurement function No other measurement function other measurement function other measurement function No Accessories Manufacturer article number / of the supplied basic switch Short circuit Operational short-circuit current breaking capacity (los) at 240 V / Rated value kA tat 415 V / Rated value kA tat 400 V / Rated value kA tat 500 V / Rated value kA tat 500 V / Rated value kA tat 415 V / Rated value kA tat 415 V / Rated value kA tat 415 V / Rated value kA tat 500 V / Rated value kA tat 600 V / Rated value kA tat 600 V / Rated value kA tat 600 V / Rated value kA <litat 600="" li="" rated="" v="" value<=""> kA</litat>	Product expansion / optional / motor drive		Yes
Intrinsic device protectionYes.communication functionNoPhase failure detectionNo.other measurement functionNoAccessories3VA2010-8HM36-0AAOManufacturer article number / of the supplied basic switch3VA2010-8HM36-0AAOShort circuitStarting and the supplied basicShort circuitVersCircuitVersAccessoriesVersShort circuitKAShort circuitKAShort circuitKAShort at 415 V / Rated valueKA.at 415 V / Rated valueKA.at 440 V / Rated valueKA.at 680 V / Rated valueKA.at 690 V / Rated valueKA.at 240 V / Rated valueKA.at 240 V / Rated valueKA.at 690 V / Rated valueKA.at 240 V / Rated valueKA.at 240 V / Rated valueKA.at 240 V / Rated value<	Product function		
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Phase failure detectionNo• other measurement functionNoAccessoriesManufacturer article number / of the supplied basic switchSVA2010-8HIM36-0AA0Shore circuitStream of the supplied basic switchSVA2010-8HIM36-0AA0Operational short-circuit current breaking capacity (tcs)Image: CircuitOperational short-circuit current breaking capacity (tcs)KA200at 240 V / Rated valueKA150at 415 V / Rated valueKA150at 440 V / Rated valueKA150at 440 V / Rated valueKA150at 690 V / Rated valueKA150at 240 V / Rated valueKA150at 440 V / Rated valueKA150at 440 V / Rated valueKA150at 240 V / Rated valueKA200at 240 V / Rated valueKA150at 240 V / Rated valueKA150at 440 V / Rated valueKA150at 440 V / Rated valueKA150at 440 V / Rated valueKA150at 450 V / Rated valueKA130at 400 V / Rated valueKA330at 440 V / Rated value </td <td> Intrinsic device protection </td> <td></td> <td></td>	 Intrinsic device protection 		
• other measurement functionNoAncessoriesSVA2010-BHM36-0AA0Manufacturer article number / of the supplied basic switchSVA2010-BHM36-0AA0Short circuitSVA2010-BHM36-0AA0Operational short-circuit current breaking capacity (tcs)SVA2010-BHM36-0AA0• at 240 V / Rated valueKA200• at 240 V / Rated valueKA150• at 415 V / Rated valueKA150• at 440 V / Rated valueKA150• at 690 V / Rated valueKA150• at 690 V / Rated valueKA150• at 690 V / Rated valueKA150• at 240 V / Rated valueKA200• at 240 V / Rated valueKA200• at 240 V / Rated valueKA150• at 240 V / Rated valueKA200• at 415 V / Rated valueKA300• at 400 V / Rated valueKA330• at 240 V / Rated valueKA330• at 240 V / Rated valueKA330• at 240 V / Rated valueKA330• at 440 V / Rated va	 communication function 		No
Accessories Manufacturer article number / of the supplied basic switch 3VA2010-BHM36-0AA0 Short circuit Short circuit current breaking capacity (ics) at 240 V / Rated value kA • at 240 V / Rated value kA 150 • at 415 V / Rated value kA 150 • at 440 V / Rated value kA 150 • at 400 V / Rated value kA 150 • at 400 V / Rated value kA 150 • at 500 V / Rated value kA 160 • at 690 V / Rated value kA 160 • at 240 V / Rated value kA 100 • at 690 V / Rated value kA 150 • at 400 V / Rated value kA 150 • at 415 V / Rated value kA 150 • at 400 V / Rated value kA 150 • at 400 V / Rated value kA 100 • at 690 V / Rated value kA 24 Short-circuit current making capacity (Icm)	 Phase failure detection 		No
Manufacturer article number / of the supplied basic switch 3VA2010-8HM36-0AA0 Short circuit Operational short-circuit current breaking capacity (ics) 4 • at 240 V / Rated value kA 200 • at 415 V / Rated value kA 150 • at 440 V / Rated value kA 150 • at 440 V / Rated value kA 100 • at 690 V / Rated value kA 100 • at 690 V / Rated value kA 100 • at 240 V / Rated value kA 100 • at 690 V / Rated value kA 100 • at 240 V / Rated value kA 100 • at 400 V / Rated value kA 100 • at 400 V / Rated value kA 150 • at 415 V / Rated value kA 150 • at 415 V / Rated value kA 100 • at 400 V / Rated value kA 100 • at 690 V / Rated value kA 300 • at 400 V / Rated value kA 330 • at 400 V / Rated value kA 330 • at 400 V / Rated value kA 330 • at 440 V / Rated val	 other measurement function 		No
Manufacturer article number / of the supplied basic switch 3VA2010-8HM36-0AA0 Short circuit Operational short-circuit current breaking capacity (ics) 4 • at 240 V / Rated value kA 200 • at 415 V / Rated value kA 150 • at 440 V / Rated value kA 150 • at 440 V / Rated value kA 100 • at 690 V / Rated value kA 100 • at 690 V / Rated value kA 100 • at 240 V / Rated value kA 100 • at 690 V / Rated value kA 100 • at 240 V / Rated value kA 100 • at 400 V / Rated value kA 100 • at 400 V / Rated value kA 150 • at 415 V / Rated value kA 150 • at 415 V / Rated value kA 100 • at 400 V / Rated value kA 100 • at 690 V / Rated value kA 300 • at 400 V / Rated value kA 330 • at 400 V / Rated value kA 330 • at 400 V / Rated value kA 330 • at 440 V / Rated val	Accessories		
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Operational short-circuit current breaking capacity (Ics)KA200• at 240 V / Rated valueKA150• at 415 V / Rated valueKA150• at 440 V / Rated valueKA100• at 500 V / Rated valueKA100• at 690 V / Rated valueKA150• at 240 V / Rated valueKA150• at 240 V / Rated valueKA150• at 415 V / Rated valueKA150• at 400 V / Rated valueKA150• at 690 V / Rated valueKA100• at 690 V / Rated valueKA100• at 690 V / Rated valueKA300• at 240 V / Rated valueKA24Short-circuit current making capacity (Icm)• at 240 V / Rated valueKA330• at 240 V / Rated valueKA330• at 440 V / Rated valueKA220	switch		
Operational short-circuit current breaking capacity (Ics)KA200• at 240 V / Rated valueKA150• at 415 V / Rated valueKA150• at 440 V / Rated valueKA100• at 500 V / Rated valueKA100• at 690 V / Rated valueKA150• at 240 V / Rated valueKA150• at 240 V / Rated valueKA150• at 415 V / Rated valueKA150• at 400 V / Rated valueKA150• at 690 V / Rated valueKA100• at 690 V / Rated valueKA100• at 690 V / Rated valueKA300• at 240 V / Rated valueKA24Short-circuit current making capacity (Icm)• at 240 V / Rated valueKA330• at 240 V / Rated valueKA330• at 440 V / Rated valueKA220	Short circuit		
• at 240 V / Rated value KA 200 • at 415 V / Rated value KA 150 • at 440 V / Rated value KA 150 • at 440 V / Rated value KA 100 • at 500 V / Rated value KA 18 • at 690 V / Rated value KA 200 • at 240 V / Rated value KA 200 • at 240 V / Rated value KA 200 • at 240 V / Rated value KA 150 • at 240 V / Rated value KA 150 • at 440 V / Rated value KA 150 • at 440 V / Rated value KA 150 • at 450 V / Rated value KA 160 • at 500 V / Rated value KA 24 • at 450 V / Rated value KA 100 • at 240 V / Rated value KA 440 • at 240 V / Rated value KA 300 • at 440 V / Rated value KA 330 • at 440 V / Rated value KA 320 • at 440 V / Rated value KA 320			
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 at 440 V / Rated value at 440 V / Rated value kA 150 at 500 V / Rated value kA 100 at 690 V / Rated value kA 18 Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value kA 200 at 415 V / Rated value kA 150 at 440 V / Rated value kA 150 at 690 V / Rated value kA 150 at 690 V / Rated value kA 100 at 690 V / Rated value kA 100 at 690 V / Rated value kA 100 at 690 V / Rated value kA 24 Short-circuit current making capacity (Icm) at 240 V / Rated value kA 440 V / Rated value kA 330 at 440 V / Rated value kA 330 at 440 V / Rated value kA 320 	• at 240 V / Rated value	kA	200
 at 10 V / Rated value at 500 V / Rated value kA 100 kA 18 Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value kA 200 at 415 V / Rated value kA 150 at 440 V / Rated value kA 150 at 500 V / Rated value kA 100 at 500 V / Rated value kA 100 at 440 V / Rated value kA 24 Short-circuit current making capacity (Icm) at 240 V / Rated value kA 330 at 440 V / Rated value kA 330 at 440 V / Rated value kA 330 at 440 V / Rated value kA 320 	• at 415 V / Rated value	kA	150
kA18Maximum short-circuit current breaking capacity (Icu)• at 240 V/Rated valuekA200• at 415 V/Rated valuekA150• at 440 V/Rated valuekA150• at 440 V/Rated valuekA150• at 690 V/Rated valuekA24• at 690 V/Rated valuekA24• at 690 V/Rated valuekA30• at 240 V/Rated valuekA330• at 240 V/Rated valuekA330• at 240 V/Rated valuekA330• at 415 V/Rated valuekA330• at 440 V/Rated valuekA320• at 440 V/Rated valuekA320	• at 440 V / Rated value	kA	150
Maximum short-circuit current breaking capacity (Icu)KA200• at 240 V / Rated valuekA150• at 415 V / Rated valuekA150• at 440 V / Rated valuekA150• at 500 V / Rated valuekA100• at 690 V / Rated valuekA24Short-circuit current making capacity (Icm)	• at 500 V / Rated value	kA	100
• at 240 V / Rated value kA 200 • at 415 V / Rated value kA 150 • at 440 V / Rated value kA 150 • at 440 V / Rated value kA 100 • at 500 V / Rated value kA 24 • at 690 V / Rated value kA 24 • at 240 V / Rated value kA 440 • at 240 V / Rated value kA 300 • at 240 V / Rated value kA 330 • at 440 V / Rated value kA 320	• at 690 V / Rated value	kA	18
• at 415 V / Rated valuekA150• at 440 V / Rated valuekA150• at 500 V / Rated valuekA100• at 690 V / Rated valuekA24• at 690 V / Rated valuekA440• at 240 V / Rated valuekA330• at 415 V / Rated valuekA330• at 440 V / Rated valuekA330• at 440 V / Rated valuekA320	Maximum short-circuit current breaking capacity (Icu)		
 at 440 V / Rated value kA 150 at 500 V / Rated value kA 100 at 690 V / Rated value kA 24 Short-circuit current making capacity (Icm) at 240 V / Rated value kA 440 at 415 V / Rated value kA 330 at 440 V / Rated value kA 330 at 500 V / Rated value kA 320 	• at 240 V / Rated value	kA	200
• at 500 V / Rated value kA 100 • at 690 V / Rated value kA 24 • at 690 V / Rated value kA 440 • at 240 V / Rated value kA 330 • at 415 V / Rated value kA 330 • at 440 V / Rated value kA 220	• at 415 V / Rated value	kA	150
• at 690 V / Rated valuekA24Short-circuit current making capacity (Icm)-• at 240 V / Rated valuekA440• at 415 V / Rated valuekA330• at 440 V / Rated valuekA330• at 500 V / Rated valuekA220	• at 440 V / Rated value	kA	150
Short-circuit current making capacity (Icm)Image: Comparison of the compariso	● at 500 V / Rated value	kA	100
• at 240 V / Rated valuekA440• at 415 V / Rated valuekA330• at 440 V / Rated valuekA330• at 500 V / Rated valuekA220	• at 690 V / Rated value	kA	24
 at 415 V / Rated value at 440 V / Rated value kA 330 kA 330 kA 220 	Short-circuit current making capacity (Icm)		
 at 440 V / Rated value at 500 V / Rated value kA 220 	• at 240 V / Rated value	kA	440
• at 500 V / Rated value kA 220	• at 415 V / Rated value	kA	330
• at 500 V / Rated value kA 220	• at 440 V / Rated value	kA	330
		kA	220
	• at 690 V / Rated value	kA	

Connections						
Arrangement of electrical connectors / for main		Front termin	al			
current circuit						
Type of connectable conductor cross-section						
 of the round conductor terminal / stranded 		1 x (6-120 m	1 x (6-120 mm²)			
Type of electrical connection / for main current circuit		Box termina	Box terminal			
Mechanical Design						
Height	mm	181	181			
Width	mm	105	105			
Depth	mm	107				
Mounting type		fixed mounting				
Environmental conditions						
Ambient temperature						
 during operation / minimum 	°C	-25				
 during operation / maximum 	°C	70	70			
 during storage / minimum 	°C	-40	-40			
 during storage / maximum 	°C	80	80			
Certificates		<u> </u>				
Equipment marking						
• acc. to DIN EN 61346-2		Q				
• acc. to DIN EN 81346-2		Q				
General Product Approval	E	ИС	Declaration of Conformity	other		
		other	(6	other		
			EG-Konf.			

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/3VA20108HM360AA0

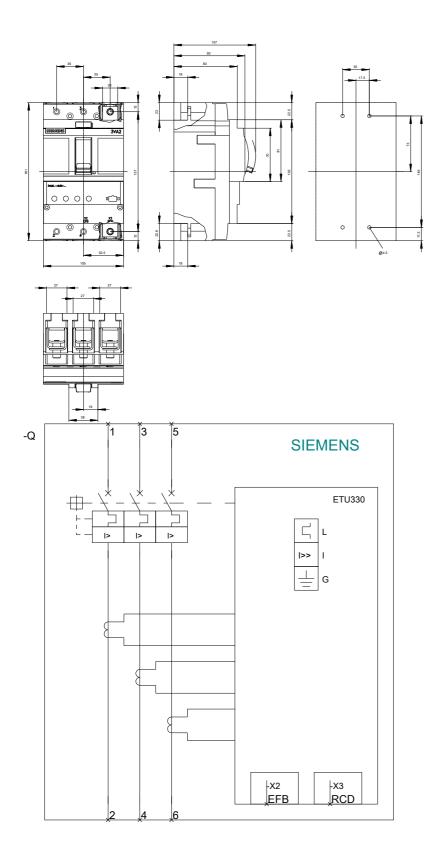
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA20108HM360AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA20108HM360AA0

CAx-Online-Generator

http://www.siemens.com/cax Tender specifications

http://ausschreibungstexte.siemens.com/tiplv



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