SIEMENS

Data sheet

3VA2010-8HM42-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 100 BREAKING CAPACITY CLASS L ICU=150KA @ 415 V 4POLE, LINE PROTECTION ETU330, LIG, IN=100A OVERLOAD PROTECTION IR=40A ...100A SHORT CIRCUIT PROTECTION II=1,5...12 X IN NEUTRAL PROTECTION ADJUSTABLE(OFF,50%,100%) GROUNDFAULTPROTECTION IG=0,2... 1 X IN, TG=0,1/0,3MS BUSBAR 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 + N 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		4
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	S	0.1
standard characteristic / initial value		
Total disconnection time / for G-tripping / with	S	0.3
standard characteristic / Full-scale value		
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	А	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 No • Trip indicator No • display No • undervoltage release No Product property • of the circuit breaker with tripping unit / Tripping characteristic adjustable Yes • for neutral conductors / upgradeable/terrofitable / Short-circuit and overload proof No Product function Yes Product function Yes Product function Yes Product function No • thrmsis device protection Yes • ther measurement function No • other measurement function No • other measurement function No Short circuit Operational short-circuit value • at 240 V / Rated value KA • at 240 V / Rated value KA • at 350 V / Rated value KA • at 690 V / Rated value KA • at 690 V / Rated value KA • at 690 V / Rated value KA • at 240 V / Rated value KA • at 240 V / Rated value KA • at 690 V / Rated value KA • at 690 V / Rated value KA • at 690 V / Rated value KA • at 240 V / Rated value KA • at 690 V / Rated value KA	Product details		
display display undervoltage releaseNoProduct properly of the circuit breaker with tripping unit / Tripping othracteristic adjustable of neutral conductors / upgradeable/retrofittable / Short-circuit and overload proofYesProduct expansion / optional / motor driveYesProduct function overload proofYesProduct function our intrinsic device protection o drive driveYesProduct function our intrinsic device protection o drive driveYesProduct function our intrinsic device protection o drive driveYesProduct function our intrinsic device protection o drive measurement functionNoProtect function our intrinsic device protection our intrinsic device protectionYesProtect our intrinsic device protection our intrinsic device protectionNoProtect our intrinsic device protectionNoI at 40 V / Rated value <td></td> <td></td> <td></td>			
undervoltage releaseNoProduct property• of the circuit breaker with tripping unit / Tripping characteristic adjustableYes• of the circuit breaker with tripping unit / Tripping characteristic adjustableNo• or relutal conductors / upgradeable/retrofittable / Short-circuit and overload proofYesProduct functionYes• Intrinsic device protectionYes• Intrinsic device protectionNo• Orbust standardNo• Orbust standardStandard• Orbust standardKA• Orbust standardKA• Orbust standardKA• Int Circ	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 expansion / optional / motor drive Yes Product expansion / optional / motor drive Yes Product function Yes • intrinsic device protection Yes • intrinsic device protection No • other measurement function No • other measurement function No • other measurement function SVA2010.8HM42.0AAB Short circuit SVA2010.8HM42.0AAB Operational short-dircuit current breaking capacity (ics) Image: Strupping training tra	• display		No
• of the circuit breaker with tripping unit / Tripping characteristic adjustableYes• for neutral conductors / upgradeable/introfittable / Short-circuit and overload proofNoProduct expansion / optional / motor driveYesProduct functionYes• Intrinsic device protectionYes• Intrinsic device protectionNo• Other measurement functionNo• Other measurement functionNo• other measurement functionSt/A2010-8HM42-0AA0• other measurement functionSt/A2010-8HM42-0AA0• at 240 V / Rated valueKA• at 240 V / Rated valueKA• at 150 V / Rated valueKA• at 240 V / Rated valu	 undervoltage release 		No
characteristic adjustable interference i for neutral conductors / No upgradeable/retrofitable / Short-circuit and Yes Product function Yes Product function Yes ecommunication function No ecommunication function No ecommunication function No ecommunication function No other measurement function No other measurement function State detection excessories State detection function State detection exit 415 V / Rated value KA exit 420 V / Rated value KA exit 620 V / Ra	-	-	
characteristic adjustableNo• or neutral conductors / upgradeable/retrofittable / Shot-circuit and overicad proofYes• Product expansion / optional / motor driveYes• Product functionYes• Intrinsic device protectionNo• Intrinsic device protectionNo• Ormunication functionNo• Other measurement functionNo• other measurement functionNo• Other measurement function3V/2010-8HM42-0AAO• other measurement function3V/2010-8HM42-0AAO• other measurement function1• other measurement function1• other measurement function3V/2010-8HM42-0AAO• other measurement function1• other measurement function3V/2010-8HM42-0AAO• other measurement function1• other measurement function1• other measurement function3V/2010-8HM42-0AAO• other measurement function1• other measurement function3V/2010-8HM42-0AAO• other measurement function3V/2010-8HM42-0AAO• other measurement function1• other measurement functionKA• other measurement function1• other measurement function1 <td></td> <td></td> <td>Yes</td>			Yes
upgradeable/retrofitable / Short-circuit and overload proof Yes Product expansion / optional / motor drive Yes Product function Yes • Intrinsic device protection No • Communication function No • Other measurement function No • at 240 V / Rated value KA 200 • at 240 V / Rated value KA 150 • at 450 V / Rated value KA 100 • at 400 V / Rated value KA 150 • at 400 V / Rated value KA 160 • at 400 V / Rated value KA 160 • at 400 V / Rated value KA 160 • at 400 V / Rated value KA 160 • at 400 V / Rated value KA 160 • at 400 V / Rated value KA 160 • at 400 V / Rated value KA 160 • at 400 V / Rated value KA 160 • at 690 V / Rated v			
overload proofProduct expansion / optional / motor driveYesProduct functionProduct functionYes• Intrinsic device protectionNo• Other measurement functionNo• other measurement functionKA• o	• for neutral conductors /		No
Product expansion / optional / motor drive Yes Product function Product function Intrinsic device protection communication function Phase failure detection other measurement function No Product function No Phase failure detection other measurement function No Accessories Status Accessories 3VA2010-8HIM42-0AAO Short circuit Communication current breaking capacity (ics) 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 150 at 500 V / Rated value KA 150 at 690 V / Rated value KA 150 at 440 V / Rated value KA 150 at 440 V / Rated value KA 150 at 690 V / Rated value KA			
Product function Product function Intrinsic device protection communication function No Phase failure detection other measurement function No Accessories SVA2010-8HM42-0AA0 Accessories SVA2010-8HM42-0AA0 Anufacturer article number / of the supplied basic switch SVA2010-8HM42-0AA0 Accessories SVA2010-8HM42-0AA0 Accessories SVA2010-8HM42-0AA0 Short circuit Operational short-circuit current breaking capacity (Ics) SVA2010-8HM42-0AA0 et at 410 V / Rated value kA 150 et at 440 V / Rated value kA Subtrain a short-circuit current breaking capacity (Icurent breaking capacity (Icu) et at 690 V / Rated value kA 150 et at 400 V / Rated value kA 150 et at 500 V / Rated value kA 150 et at 690 V / Rated value kA			
Product function Intrinsic device protection Yes • communication function No • Phase failure detection No • other measurement function No • other measurement function No Accessories 3VA2010-8HM42-0AA0 Manufacturer article number / of the supplied basic switch 3VA2010-8HM42-0AA0 Short circuit Common state of the supplied basic switch Operational short-circuit current breaking capacity (Ics) Image: Common state of the supplied basic switch • at 240 V / Rated value KA 200 • 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 150 • at 415 V / Rated value KA 150 • at 400 V / Rated value KA 150 • at 400 V / Rated value KA 150 • at 400 V / Rated value KA 150 • at 400 V / Rated value KA 150 • at 400 V / Rated value KA 160 • at 690 V / Rated value KA 24<	Product expansion / optional / motor drive		Yes
Intrinsic device protectionYes.communication functionNo.Phase failure detectionNo.other measurement functionNoAccessories3VA2010-8HM42-0AA0Manufacturer article number / of the supplied basic switch3VA2010-8HM42-0AA0Short circuitState and the supplied basicShort circuitState and the supplied basicShort circuitKACorrectVersional short-circuit current breaking capacity (rcs).et 240 V / Rated valueKA.et 240 V / Rated value <td>Product function</td> <td></td> <td></td>	Product function		
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Phase failure detectionNo• other measurement functionNoAccessoriesManufacturer article number / of the supplied basic switchSVA2010-8HIM42-0AA0Shore circuitStream of the supplied basic switchSVA2010-8HIM42-0AA0Operational short-circuit current breaking capacity (tcs)Image: CircuitOperational short-circuit current breaking capacity (tcs)KA200• at 240 V / Rated valueKA150• at 415 V / Rated valueKA150• at 440 V / Rated valueKA150• at 690 V / Rated valueKA150• at 240 V / Rated valueKA150• at 240 V / Rated valueKA150• at 690 V / Rated valueKA150• at 240 V / Rated valueKA150• at 240 V / Rated valueKA150• at 240 V / Rated valueKA200• at 240 V / Rated valueKA150• at 240 V / Rated valueKA150• at 240 V / Rated valueKA150• at 440 V / Rated valueKA150• at 450 V / Rated valueKA130• at 400 V / Rated valueKA330• at 240 V / Rated valueKA330• at 240 V / Rated valueKA330• at 240 V / Rated valueKA330• at 440 V / Rated valueKA <th< td=""><td> Intrinsic device protection </td><td></td><td>Yes</td></th<>	 Intrinsic device protection 		Yes
• other measurement functionNoAncessoriesSVA2010-8HM42-0AA0Manufacturer article number / of the supplied basic switchSVA2010-8HM42-0AA0Short circuitSVA2010-8HM42-0AA0Operational short-circuit current breaking capacity (tcs)SVA2010-8HM42-0AA0• at 240 V / Rated valueKA200• at 240 V / Rated valueKA150• at 415 V / Rated valueKA150• at 440 V / Rated valueKA150• at 690 V / Rated valueKA160• at 690 V / Rated valueKA100• at 690 V / Rated valueKA150• at 440 V / Rated valueKA200• at 440 V / Rated valueKA200• at 240 V / Rated valueKA200• at 440 V / Rated valueKA200• at 440 V / Rated valueKA300• at 440 V / Rated valueKA330• at 240 V / Rated valueKA330• at 240 V / Rated valueKA330• at 240 V / Rated valueKA220	 communication function 		No
Accessories Manufacturer article number / of the supplied basic switch 3VA2010-8HM42-0AA0 Short circuit Short circuit current breaking capacity (ics) at 240 V / Rated value kA • 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 150 • at 400 V / Rated value kA 150 • at 690 V / Rated value kA 100 • at 240 V / Rated value kA 160 • at 690 V / Rated value kA 100 • at 400 V / Rated value kA 150 • at 400 V / Rated value kA 100 • at 400 V / Rated value kA 150 • at 415 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 3VA2010-8HM42-0AA0 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 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 100 • at 415 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 24 Short-circuit current making capacity (lcm)	 other measurement function 		No
Manufacturer article number / of the supplied basic switch 3VA2010-8HM42-0AA0 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 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 100 • at 415 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 24 Short-circuit current making capacity (lcm)	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 valueKA150• at 440 V / Rated valueKA100• at 500 V / Rated valueKA100• at 690 V / Rated valueKA100• at 690 V / Rated valueKA100• at 690 V / Rated valueKA150• at 440 V / Rated valueKA150• at 240 V / Rated valueKA150• at 240 V / Rated valueKA150• at 440 V / Rated valueKA150• at 450 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 valueKA150• at 440 V / Rated valueKA100• at 500 V / Rated valueKA100• at 690 V / Rated valueKA100• at 690 V / Rated valueKA100• at 690 V / Rated valueKA150• at 440 V / Rated valueKA150• at 240 V / Rated valueKA150• at 240 V / Rated valueKA150• at 440 V / Rated valueKA150• at 450 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		
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• at 415 V / Rated value kA 150 • at 415 V / Rated value kA 150 • 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 440 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 • 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 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	(lcs)		
 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 100 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 150 at 440 V / Rated value kA 150 at 440 V / Rated value kA 100 at 500 V / Rated value kA 24 Short-circuit current making capacity (Icm) at 240 V / Rated value kA 330 at 415 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 valuekA100• at 500 V / Rated valuekA24• at 690 V / Rated valuekA24• at 690 V / Rated valuekA300• at 240 V / Rated valuekA330• at 240 V / Rated valuekA24• at 240 V / Rated valuekA24• at 240 V / Rated valuekA330• at 415 V / Rated valuekA330• at 440 V / Rated valuekA330• at 440 V / Rated valuekA220	• 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 500 V / Rated value kA 100 • at 690 V / Rated value kA 24 Short-circuit current making capacity (Icm)	• at 690 V / Rated value	kA	18
 a table v / Rated value a table v / Rated value kA 150 a table v / Rated value kA 100 a table v / Rated value kA 100 a table v / Rated value kA 24 Short-circuit current making capacity (Icm) a table v / Rated value kA 440 440 440 a table v / Rated value kA 330 a table v / Rated value kA 330 a table v / Rated value kA 320 	Maximum short-circuit current breaking capacity (Icu)	-	
 at 440 V / Rated value at 440 V / Rated value kA 150 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 220 	• 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 state of the sta	• 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 240 V / Rated valuekA440• at 415 V / Rated valuekA330• at 440 V / Rated valuekA330• at 500 V / Rated valuekA220	Short-circuit current making capacity (Icm)		
• at 415 V / Rated valuekA330• at 440 V / Rated valuekA330• at 500 V / Rated valuekA220		kA	440
• at 440 V / Rated valuekA330• at 500 V / Rated valuekA220		kA	330
• at 500 V / Rated value kA 220		kA	330
		kA	
	at 690 V / Rated value	kA	48

Equipment markingacc. to DIN EN 61346-2acc. to DIN EN 81346-2		Q				
Certificates	-	_				
	U					
 during storage / minimum during storage / maximum 	°C		80			
during operation / maximum	°C °C	-40	70			
during operation / minimum	°C	-25				
Ambient temperature						
Environmental conditions	-					
Mounting type		fixed moun	fixed mounting			
Depth	mm	107				
Width	mm	140	140			
Height	mm	181				
Mechanical Design						
Type of electrical connection / for main current circuit		Lug termin	Lug terminal			
• for flat-bar terminal connection / maximum		25 x 8.5	25 x 8.5			
• for flat-bar terminal connection / minimum		13 x 1 mm	13 x 1 mm			
Type of connectable conductor cross-section	-					
current circuit		Front termi				

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/3VA20108HM420AA0

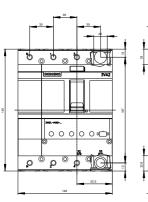
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA20108HM420AA0/all

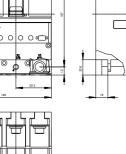
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA20108HM420AA0

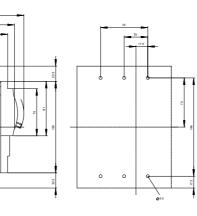
CAx-Online-Generator http://www.siemens.com/cax

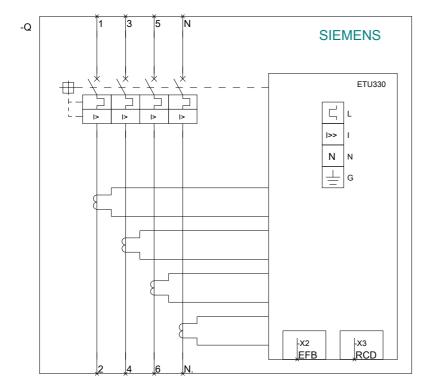
Tender specifications

http://ausschreibungstexte.siemens.com/tiplv









last modified:

11.03.2015