SIEMENS

Data sheet

3VA6440-6JP32-0AA0



circuit breaker 3VA6 UL frame 600 breaking capacity class H 65kA @ 480 V 3-pole, line protection ETU550, LSI, In=400A overload protection Ir=160A ...400A short-circuit protection Isd=0.6..10x In, Ii=1.5..12x In N conductor protection opt. w. ext. CT; up to 160% nut keeper kit on both sides

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HLAE
design of the product	System protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design of the overcurrent release	ETU550
protection function of the overcurrent release	LSI
number of poles	3
General technical data	
insulation voltage / rated value	800 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	70 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	23.33 W
mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	4 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	3 500
electrical endurance (operating cycles) / at 480 V	4 000
electrical endurance (operating cycles) / at 600 V	3 500
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	Yes
ground-fault monitoring version	without
product function	
 communication function 	Yes
 other measurement function 	No
Net Weight	5.596 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
● at 40 °C	400 A
● at 45 °C	400 A
● at 50 °C	400 A
● at 55 °C	400 A
• at 60 °C	400 A
● at 65 °C	400 A
• at 70 °C	400 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	Н
maximum short-circuit current breaking capacity (Icu)	

••••••••••••••••••••••••••••••••••••		
• • # 100 Y0 kAoperating short-cloud current breaking capacity (ics)• • • • • · · · · · · · · · · · · · · ·	• at 240 V	110 kA
operating short-focul current heaking capacity (ics) 10 kÅ • • • • • • • • • • • • • • • • • • •		
		6 kA
4:415 V5:1A5:0A (12:00 V)5:A5:0A (12:00 V)2:2:A•:12:3D V107 VA•:12:3D V107 VA•:12:3D V107 VA•:12:3D V107 VA•:12:3D V100 VA•:13:3D V100 VA•:13:3D V100 VA•:13:3D VA100 VA•:13:3D VA100 VA•:10:3D VA100 VA<	operating short-circuit current breaking capacity (lcs)	
• # 1800 Y6 kÅshort-strout current making capacity (tern)242 kÅ• • # 1200 Y9 kÅ• • # 1600 Y9 kÅSinterfing capacity according to UL 480100 kÅ• • # 1240 Y05 kÅ• • # 1400 Y05 s• • # 1400 Y04 0• • # 1400 Y05 s• • # 1400 Y04 0• # 1400 Y05 s• # 1400	• at 240 V	110 kA
shot-fourt aurent making capacity (iom) 242 kV • et 240 V 187 kA • et 460 V 9 kA Sitching capacity according to UL 489 00 kA • et 240 V 100 kA • et 340 K 100 kA • et 340 K 100 kA • et 340 K 200 A	● at 415 V	85 kA
• 1240 V 242 kA • • 1145 V 187 kA • • • 1145 V 187 kA • • • 1145 V 187 kA • • • • • • • • • • • • • • • • • • •	• at 690 V	6 kA
41 41 5 V19 7 VASwitching espacity according to UL 439Current breaking capacity- at 240 V- at 240 V- at 260 V2 2 AAdjustable parametersSwitching espacity according to UL 439- at 260 V2 2 AAdjustable parametersSwitching espacity according to UL 439- at 260 V2 2 AAdjustable parameters- at 260 V- at 260 V <t< td=""><td>short-circuit current making capacity (Icm)</td><td></td></t<>	short-circuit current making capacity (Icm)	
• 1890 V9 kASwitching capacity excerding to UL 409• at 240 V100 kA• at 240 V05 kA• at 800 V22 kAAdjustable response value setting current (h) / of the L thip / with tor between the setting current (h) / of the L thip / with tor between the setting current (h) / of the L thip / with tor between the setting current (k) / of the L thip / with tor between the setting current (k) / of the L thip / with tor between the setting current (k) / of the L thip / with tor between the setting current (k) / of the L thip / with tor between the setting current (k) / of S tor between the setting current (k) / of S tor between the setting current (k) / of S tor between the setting current (k) / of S tor between the setting current (k) / of S tor between the setting current (k) / of S tor between the setting current (k) / of S tor between the setting current (k) / of S tor between the setting current (k) / of S tor between the setting current (k) / of S tor between the setting current (k) / for S tor between the setting current (k) / for S tor between the setting current (k) / for S tor between the setting current (k) / for S tor between the setting current (k) / for S tor between the setting current (k) / for N tor between the setting current (k) / for N tor between the setting current (k) / for N tor between the setting current (k) / for N tor between the setting current (k) / for N tor between the setting current / of instantaneous the setting current (k) / for N tor between the setting current / of instantaneous th	• at 240 V	242 kA
Switching capacity according to UL 489 current threaking capacity - all 240 V 65 KA - all 240 V 65 KA - all 240 V 65 KA - all 240 V 25 KA Adjustable response value setting current (Ir) / of the L trip / with 22 banactionsite 180 A - maximum 400 A adjustable response value delay time (Ir) / for L-trip/ with 122 characteristic 25 s - maximum 25 s adjustable response value setting current (Isd) / of S-trip/ with 100 characteristic 25 s - maximum 240 A - maximum 200 A - maximum 0.05 s - maximum 0.05 s - maximum 0.05 s - maximum 0.2 A - maximum 0.2 A - maximum 0.4 A - maximum	• at 415 V	187 kA
current breaking capacity 00 kA • at 240 V 65 kA • at 240 V 65 kA • at 260 V 22 kA Adjustable paperase values setting current (lr) / of the Lrip / with (2t characteristic 180 A • maximum 180 A • maximum 05 S • maximum 25 S • maximum 240 A • minimum 0.5 S • maximum 240 A • minimum 0.5 S • minimum 0.5 S • minimum 0.5 S • minimum 0.05 S	• at 690 V	9 kA
al 240 V100 kAat 450 V65 kAat 450 V22 kAAdjustable response value setting current (Ir) / of the L-trip / with 12t characteristic160 A- maximum160 A- maximum0.5 sadjustable response value setting current (Ist) / of S-trip / with 12t characteristic160 A- minimum0.5 s- minimum0.5 s- minimum240 A- minimum25 s- minimum26 s- minimum0.5 s- maximum0.5 s- minimum0.5 s- minimum0.6 s <td>Switching capacity according to UL 489</td> <td></td>	Switching capacity according to UL 489	
• al 480 V 85 kA at 600 V 22 kA Adjustable presence value setting current (tr) / of the L-trip / with 22 characteristic 800 A • minimum 800 A • adjustable response value delay time (tr) / or L-tripping / with 121 characteristic 800 A • minimum 0.5 s • minimum 240 A • minimum 0.05 s • minimum 0.5 s • dijustable response value delay time (tsd) / for S-tripping / with 22 characteristic • minimum 0.5 s • dijustable delay time / of S-trip / with 12t characteristic • minimum 0.6 s • dijustable delay time / of S-trip / with 12t characteristic • minimum 60.0 A • minimum 60.0 A • minimum 60.0 A • minimum 60.0	current breaking capacity	
• at 600 V 22 kA Adjustable response value setting current (IV) / of the L-trip / with f2t characteristic 160 A • maximum 400 A adjustable response value delay time (tr) / for L-tripping / with [2t] characteristic 0.5 s • minimum 0.5 s • maximum 26 s • adjustable response value setting current (lsd) / of S-trip / with 10 characteristic 26 s • minimum 260 A • minimum 260 A • maximum 26 s • adjustable response value delay time (tsd) / of S-trip / with 10 characteristic 0.00 A • minimum 0.00 A • minimum 0.05 s • minimum 0.04 A • minimum 0.05 s • minimum 0.05 s • minimum 0.04 A • minim	• at 240 V	100 kA
Adjustable parameters adjustable response value setting ourrent (kr) / of the L-trip / with 2 characteristic • minimum • maximum adjustable response value delay time (tr) / for L-tripping / with 12t • maximum • minimum • 0.5 s • dijustable sergurent (nN) / for N-tripping / with • finimum 0.05 s • minimum 0.04 s • minimum 0.05 s • minimum 0.04 s • minimum 0.05 s • dijustable data time / S-trip / with 12c characteristic 0.05 s	• at 480 V	65 kA
adjustable response value setting current (ir) / of the L-trip / with 180 A maximum maximum 180 A 400 A adjustable response value delay time (tr) / for L-tripping / with 12t characteristic minimum 180 A 400 A 3djustable response value delay time (tr) / for L-tripping / with 180 A 400 A 3djustable response value delay time (ts) / of S-trip / with 10 characteristic minimum 400 A 3djustable response value delay time (tsd) / for S-tripping / with 10 characteristic minimum 400 A 3djustable response value delay time (tsd) / for S-tripping / with 10 characteristic minimum 400 A 3djustable response value delay time (tsd) / for S-tripping / with 12 characteristic minimum 0.05 s 3djustable setting current (InN) / for N-tripping minimum 1.6 A 3djustable delay time / of S-trip / with 12t characteristic 3djustable delay time / of S-trip / with 12t characteristic 0.5 s 3djustable delay time / of S-trip / with 12t characteristic 0.5 s 3djustable delay time / of S-trip / with 12t characteristic 0.5 s 3djustable delay time / of S-trip / with 12t characteristic 0.5 s 3djustable delay time / of S-trip / with 12t characteristic 0.5 s 3djustable delay time / of S-trip / with 12t characteristic 0.5 s 3djustable delay time / of S-trip / with 12t characteristic 0.5 s 3djustable delay time / of S-trip / with 12t characteristic 0.5 s 3djustable delay time / of S-trip / with 12t characteristic 0.5 s 3djustable delay time / of S-trip / with 12t characteristic 0.5 s 3djustable delay ting of 15 -trip / with 12t characteristic 0.5 s 3djustable delay time / of S-trip / with 12t characteristic 10 A 3djustable delay time / of S-trip / with 12t characteristic 10 A 3djustable delay time / of S-trip / with 4800 A 3djustable delay time / of S	● at 600 V	22 kA
IZ characteristic 160 A • maximum 400 A edjustable response value delay time (tr) / for L-tripping / with IZI - • minimum 0.5 s • adjustable response value setting current (lsd) / of S-trip / with IZI - • minimum 25 s adjustable response value setting current (lsd) / of S-tripping / with IZI - • minimum 240 A • minimum 4000 A • minimum 0.05 s • minimum 0.2 A • minimum 0.2 A • minimum 0.2 A • minimum 0.4 A • maximum 4000 A • maximum 400 A • maximum 400 A • minimum 0.2 A • minimum 60 A • maximum 400 A • maximum 400 A • minimum 60 A • minimum </td <td>Adjustable parameters</td> <td></td>	Adjustable parameters	
• maximum400 Aadjustable response value delay time (tr) / for L-tripping / with Id theracteristic0.5 s• minimum0.5 sadjustable response value setting current (lsd) / of S-trip / with ID characteristic240 A• minimum4000 A• minimum0.5 s• minimum600 A• minimum600 A <td></td> <td></td>		
adjustable response value delay time (tr) / for L-tripping / with 12t characteristic • minimum adjustable response value setting current (isd) / of S-trip / with 01 characteristic • minimum • minimum • maximum 4000 A adjustable response value delay time (tsd) / for S-tripping / with 01 characteristic • minimum 0.05 s adjustable response value delay time (tsd) / for S-tripping / with 01 characteristic • minimum 0.05 s adjustable response value delay time (tsd) / for S-tripping / with 02 for a digustable response value delay time (tsd) / for S-tripping / with 03 for adjustable corpone value delay time (tsd) / for S-tripping / with 04 for arcteristic • minimum 0.05 s adjustable current (iNN / for N-tripping • minimum 0.2 A • minimum 0.2 A • minimum 0.05 s adjustable current response value current / of instantaneous short-circuit up ontit • minimum 600 A • minimum 600 A • design of the N-conductor protection adjust	• minimum	160 A
chiracteristic0.5 s• maximum25 sadjustable response value setting current (isd) / of S-trip / with 10f characteristic240 A• maximum4000 A• maximum4000 A• dijustable response value delay time (tsd) / for S-tripping / with 10f characteristic0.05 s• minimum0.05 s• maximum0.05 s• minimum0.05 s• minimum0.05 s• dijustable response value delay time (tsd) / for S-tripping / with 12 characteristic• minimum0.05 s• minimum0.05 s• dijustable current (hN) / for N-tripping • minimum0.05 s• dijustable current response value current / of instantaneous short-circuit frip unit600 A• maximum4 800 A• maximum4 800 A• maximum4 800 A• maximum4 800 A• molinum600 A• molinum600 A• molinum600 A• minimum9 76 in• molinum9 76 in• undervoltage releaseNo• voltage tripgerNo• voltage tripgerNo• undervoltage releaseNo• voltage tripger76 in• height [n]543 in• with [n]430 in• depth110 mm <t< td=""><td>• maximum</td><td>400 A</td></t<>	• maximum	400 A
• maximum 25 s adjustable response value setting current (lsd) / of S-trip / with 10 thrascteristic 400 A • maximum 4000 A • dijustable response value delay time (tsd) / for S-tripping / with 10 thrascteristic 0.05 s • minimum 0.05 s • maximum 0.05 s • minimum 0.05 s • dijustable response value delay time (tsd) / for S-tripping / with 12 thrascteristic 0.05 s • minimum 0.05 s • minimum 0.05 s • dijustable response value delay time (tsd) / for S-tripping / with 12 thrascteristic 0.5 s • minimum 0.05 s • dijustable current (hN) / for N-tripping 0.5 s • maximum 1.6 A adjustable current response value current / of instantaneous short-circuit frip unit 600 A • maximum 4800 A • maximum 4800 A • maximum 4800 A • dijustable OFF; 20% to 160% product function / grounding protection No • undervoltage release No • undervoltage release No • votage trigger		
adjustable response value setting current (isd) / of S-trip / with I/O characteristic 240 A • minimum 4000 A adjustable response value delay time (isd) / for S-tripping / with I/O characteristic 0.05 s • maximum 0.05 s • maximum 0.05 s • maximum 0.05 s • adjustable response value delay time (isd) / for S-tripping / with I/O characteristic 0.05 s • minimum 0.05 s adjustable setting current (inN) / for N-tripping 0.2 A • maximum 16 A adjustable delay time / of S-trip / with 12t characteristic 0.5 s adjustable current (inN) / for N-tripping 0.2 A • maximum 16 A adjustable delay time / of S-trip / with 12t characteristic 0.5 s adjustable current response value current / of instantaneous short-circuit fug outin 4000 A • minimum 4000 A • maximum 4000 A • outervoltage release No • voltage rigger <td>• minimum</td> <td>0.5 s</td>	• minimum	0.5 s
I0i characteristic 240 A • maximum 4000 A adjustable response value delay time (tsd) / for S-tripping / with I0i characteristic 0.05 s • maximum 0.05 s • distable response value delay time (tsd) / for S-tripping / with I2i characteristic 0.05 s • minimum 0.05 s • maximum 1.6 A • adjustable delay time / of S-trip / with 12i characteristic 0.5 s adjustable delay time / of S-trip / with 12i characteristic 0.5 s adjustable delay time / of S-trip / with 12i characteristic 0.5 s adjustable delay time / of S-trip / with 12i characteristic 0.5 s adjustable delay time / of S-trip / with 12i characteristic 0.5 s adjustable delay time / of S-trip / with 12i characteristic 0.5 s adjustable delay time / of S-trip / with 12i characteristic 0.5 s adjustable delay time / of S-trip / with 12i characteristic 0.5 s remainimum 600 A 4000 A etaig of the N-conductor protection No<	• maximum	25 s
• maximum 4 000 Å adjustable response value delay time (tsd) / for S-tripping / with 0 characteristic 0.05 s • maximum 0.5 s adjustable response value delay time (tsd) / for S-tripping / with 12 characteristic 0.5 s • minimum 0.05 s adjustable response value delay time (tsd) / for S-tripping / with 12 characteristic 0.5 s • minimum 0.2 A • minimum 0.2 A • maximum 1.6 A adjustable delay time / of S-trip / with 12 characteristic 0.5 s • minimum 600 A • maximum 4800 A design of the N-conductor protection 600 A • maximum 4 800 A design of the N-conductor protection No product function / grounding protection No • undervoltage release No • voltage trigger No • width [in] 9.76 in height [in] 4.33 in depth 10 mm connections		
adjustable response value delay time (tsd) / for S-tripping / with 10t characteristic 0.05 s • maximum 0.05 s adjustable response value delay time (tsd) / for S-tripping / with 12t characteristic 0.5 s • minimum 0.05 s adjustable response value delay time (tsd) / for S-tripping / with 12t characteristic 0.5 s • minimum 0.05 s adjustable certeristic 0.5 s adjustable current response value current / for N-tripping / with 12t characteristic 0.5 s adjustable current response value current / of instantaneous short-circuit trip unit 600 A • maximum 4 800 A design of the N-conductor protection adjustable OFF; 20% to 160% product function / grounding protection No Mechanical Design No product component No • undervoltage release No • voltage trigger No height [in] 9.76 in height 138 mm depth 110 mm Connections Gonnection arrangement of electrical connectors / for main current circuit Front connection type of electrical connectors / for final current circuit Front co	• minimum	240 A
IOI characteristic 0.05 s • maximum 0.5 s adjustable response value delay time (tsd) / for S-tripping / with IZI characteristic 0.05 s • ininimum 0.05 s adjustable setting current (INN) / for N-tripping 0.2 A • ininimum 0.2 A • maximum 1.6 A adjustable delay time / of S-trip / with IZI characteristic 0.5 s adjustable delay time / of S-trip / with IZI characteristic 0.5 s adjustable current response value current / of instantaneous short-circuit trip unit 600 A • ininimum 600 A • maximum 4 800 A • maximum 4 800 A • maximum 600 A • ininimum 90 A • other protection No indicator No • v	• maximum	4 000 A
• maximum 0.5 s adjustable response value delay time (tsd) / for S-tripping / with [2t characteristic 0.05 s adjustable setting current (InN) / for N-tripping 0.2 A • maximum 0.6 A • maximum 1.6 A adjustable delay time / of S-trip / with 12t characteristic 0.5 s adjustable current response value current / of instantaneous short-circuit tip unit 600 A • minimum 600 A • maximum 4 800 A design of the N-conductor protection adjustable OFF; 20% to 160% product function / grounding protection No Mechanical Design		
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121 characteristic 0.05 s adjustable setting current (InN) / for N-tripping 0.2 A • maximum 0.2 A adjustable delay time / of S-trip / with 12t characteristic 0.5 s adjustable current response value current / of instantaneous short-circuit tip unit 0.00 A • maximum 600 A • maximum 4800 A design of the N-conductor protection adjustable OFF; 20% to 180% product function / grounding protection No Mechanical Design No product function / grounding protection No height [in] 9.76 in height [in] 5.43 in width 138 mm depth 100 mm Connections Front connection arrangement of electrical connectors / for main current circuit Front connection type of electrical connectors / for flat-bar 20 x 1 mm	• maximum	0.5 s
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product component		No
• undervoltage releaseNo• voltage triggerNo• trip indicatorNoheight [in]9.76 inheight248 mmwidth [in]5.43 inwidth [in]138 mmdepth [in]4.33 indepth [in]110 mmconnectionsarrangement of electrical connectors / for main current circuittype of connectable conductor cross-sections / for flat-bar terminal connection / minimum	Mechanical Design	
• voltage triggerNo• trip indicatorNoheight [in]9.76 inheight248 mmwidth [in]5.43 inwidth138 mmdepth [in]4.33 indepth110 mmConnectionsarrangement of electrical connectors / for main current circuitFront connectiontype of connectable conductor cross-sections / for flat-bar20 x 1 mm	product component	
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width 138 mm depth [in] 4.33 in depth 110 mm Connections arrangement of electrical connectors / for main current circuit strangement of electrical connectors / for main current circuit Front connection type of electrical connection / for main current circuit nut keeper kit on both ends type of connectable conductor cross-sections / for flat-bar 20 x 1 mm	height	248 mm
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Connections arrangement of electrical connectors / for main current circuit Front connection type of electrical connection / for main current circuit nut keeper kit on both ends type of connectable conductor cross-sections / for flat-bar terminal connection / minimum 20 x 1 mm	depth [in]	4.33 in
arrangement of electrical connectors / for main current circuit Front connection type of electrical connection / for main current circuit nut keeper kit on both ends type of connectable conductor cross-sections / for flat-bar terminal connection / minimum 20 x 1 mm	depth	110 mm
type of electrical connection / for main current circuit nut keeper kit on both ends type of connectable conductor cross-sections / for flat-bar terminal connection / minimum 20 x 1 mm	Connections	
type of connectable conductor cross-sections / for flat-bar 20 x 1 mm 20 x 1 mm	arrangement of electrical connectors / for main current circuit	Front connection
terminal connection / minimum	type of electrical connection / for main current circuit	nut keeper kit on both ends
type of connectable conductor cross-sections / for flat-bar 35 x 10 mm		20 x 1 mm
	type of connectable conductor cross-sections / for flat-bar	35 x 10 mm

terminal connection / maximum				
Auxiliary circuit				
number of CO contacts / for auxiliary contacts		0		
Accessories				
product extension / optional / motor drive		Yes		
Environmental conditions				
protection class IP / on the front		IP40		
ambient temperature				
 during operation / minimum 		-25 °C		
 during operation / maximum 		70 °C		
 during storage / minimum 		-40 °C		
 during storage / maximum 		80 °C		
Certificates				
reference code / according to IEC 81346-2		Q		
certificate of suitability / as approval for NAVAL (n vessels) / supplement SB	io combat	Yes		
General Product Approval				EMC
Confirmation		Miscellaneous	EHC	RCM
Declaration of Conformity	Marine / Shippir	ng other		Dangerous Good
UK CE CA CE	ABS	<u>Miscellaneous</u>	<u>Confirmation</u>	Transport Information

Further information

Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA6440-6JP32-0AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3VA6440-6JP32-0AA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

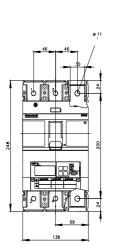
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6440-6JP32-0AA0

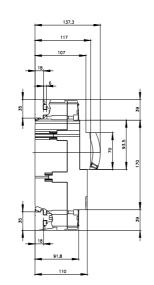
CAx-Online-Generator

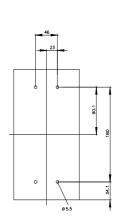
http://www.siemens.com/cax

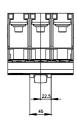
Tender specifications

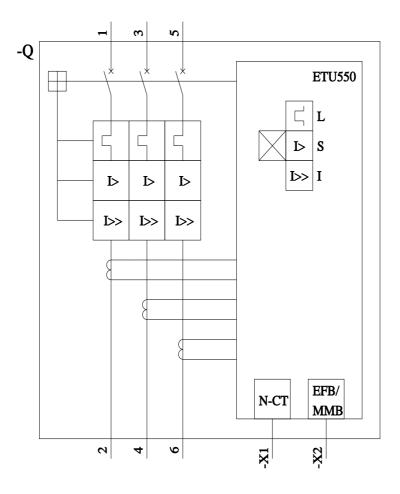
http://www.siemens.com/specifications

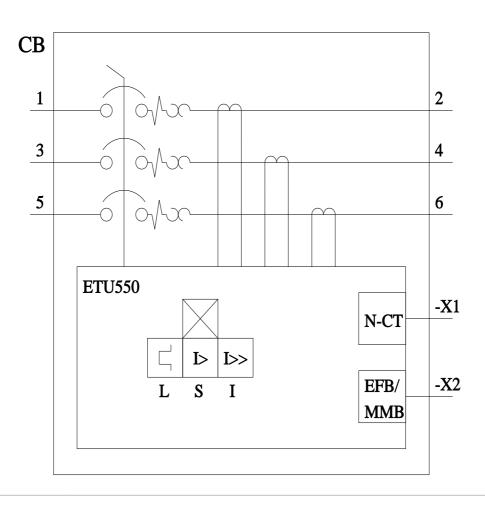












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