

circuit breaker 3VA6 UL frame 600 breaking capacity class E 200 kA @ 480 V 4-pole, line protection ETU320, LI, In=600A overload protection Ir=240A ... 600A short circuit protection li=1,5...9 x In neutral protection adjustable(OFF; 50%; 100%) w/o connection



Model	
Product brand name	SENTRON
Product designation	Molded-case circuit breaker
Product designation / according to UL file	ELAE
Product version	System protection
Design of the load switch / acc. to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
Design of the overcurrent release	ETU320
Protective function of the overcurrent release	LI
Number of poles	4

General technical data	
Rated insulation voltage Ui	800 V
Max. rated operational voltage Ue with AC 50/60Hz	600 V
Power loss [W] / maximum	150.9 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	50.3 W
Mechanical service life (switching cycles) / typical	15 000

Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	4 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	2 500
Electrical endurance (switching cycles) / at 480 V / at 50/60 Hz	4 000
Electrical endurance (switching cycles) / at 600 V / at 50/60 Hz	3 000
Neutral conductors / upgradeable/retrofitable	No
Ground fault monitoring version	Without
Product function	
• communication function	No
• other measurement function	No

Current

Marking / acc. to UL 489 / 100%-rated breaker	No
Max. rated operational current of the frame size	600 A
Rated continuous current I _u	600 A
Operating current	
• at 40 °C	600 A
• at 45 °C	600 A
• at 50 °C	593 A
• at 55 °C	575 A
• at 60 °C	557 A
• at 65 °C	538 A
• at 70 °C	520 A

Switching capacity according to IEC 60947

Maximum short-circuit current breaking capacity (I _{cu})	
• at 415 V	200 kA
• at 690 V	6.5 kA
Operational short-circuit current breaking capacity (I _{cs})	
• at 415 V	110 kA
• at 690 V	6.5 kA
Short-circuit current making capacity (I _{cm})	
• at 415 V	440 kA
• at 690 V	11 kA

Switching capacity according to UL 489

Breaking capacity current	
• at 480 V	200 kA
• at 600 V	100 kA

Adjustable parameters

Adjustable response value current / I _r min.	250 A
Adjustable response value current / I _r max.	600 A
Adjustable response value time / t _r min.	0.5
Adjustable response value time / t _r max.	17
Adjustable response value current / I _i min.	900 A
Adjustable response value current / I _i max.	5 400 A
Ground fault protection / tripping switchable / I _{2t} =ON/OFF	No

Mechanical Design

Height [in]	9.8 in
Height	248 mm
Width [in]	7.2 in
Width	184 mm
Depth [in]	4.3 in
Depth	110 mm

Connections

Arrangement of electrical connectors / for main current circuit	Without connection
Type of electrical connection / for main current circuit	Without

Auxiliary circuit

Number of CO contacts / for auxiliary contacts	0
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Accessories

Product extension / optional / motor drive	Yes
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Environmental conditions

Protection class IP / on the front	IP40
Ambient temperature	
<ul style="list-style-type: none"> during operation / minimum 	-25 °C
<ul style="list-style-type: none"> during operation / maximum 	70 °C
<ul style="list-style-type: none"> during storage / minimum 	-40 °C
<ul style="list-style-type: none"> during storage / maximum 	80 °C

Certificates

Reference code / acc. to DIN EN 81346-2	Q
Certificate of suitability / as approval for NAVAL (no combat vessels) / Supplement SB	Yes

General Product Approval	EMC	Declaration of Conformity	Shipping Approval	other
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[Miscellaneous](#)



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Further information

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?mfb=3VA6460-0HL41-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA6460-0HL41-0AA0>

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

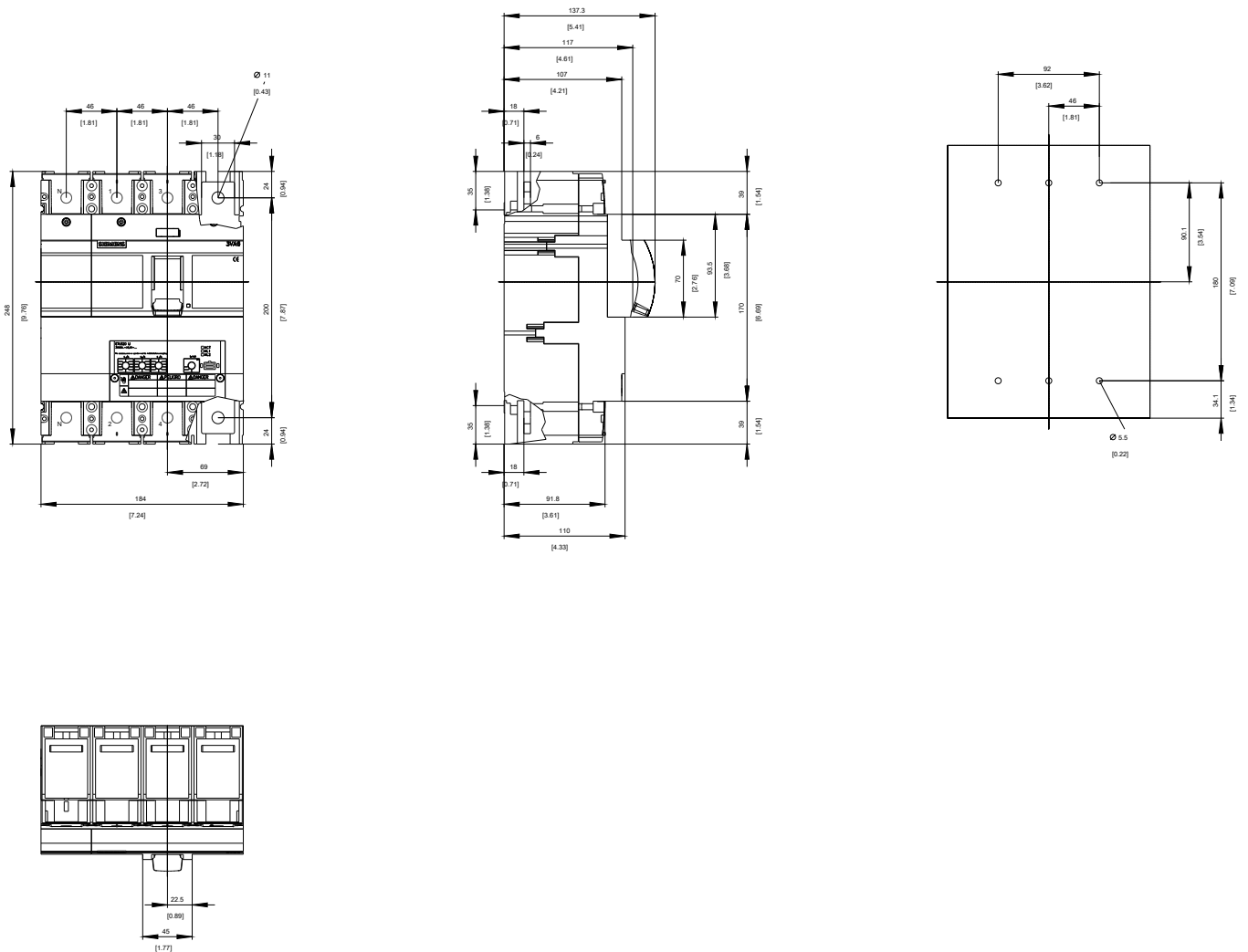
http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VA6460-0HL41-0AA0

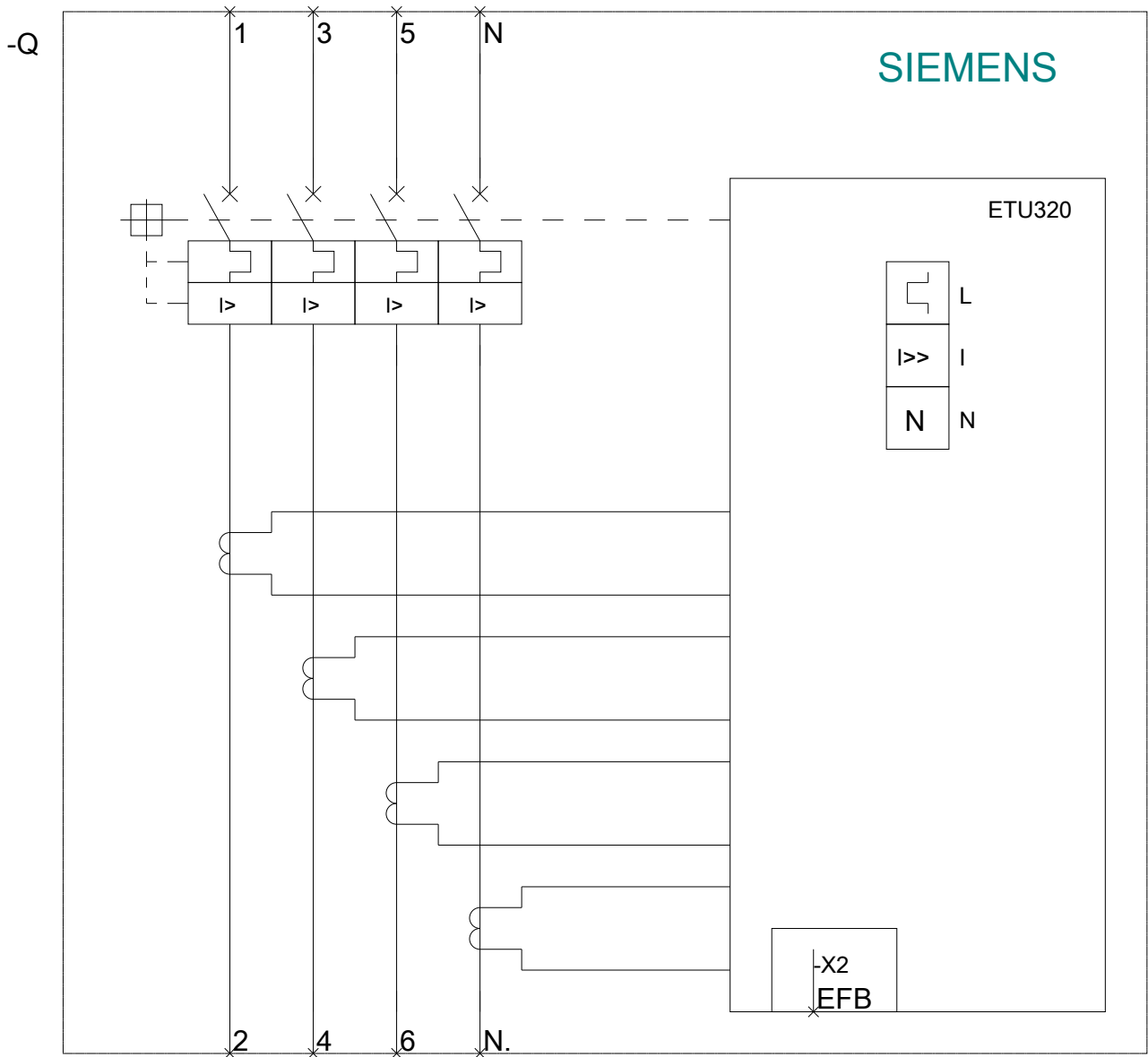
Cx-Online-Generator

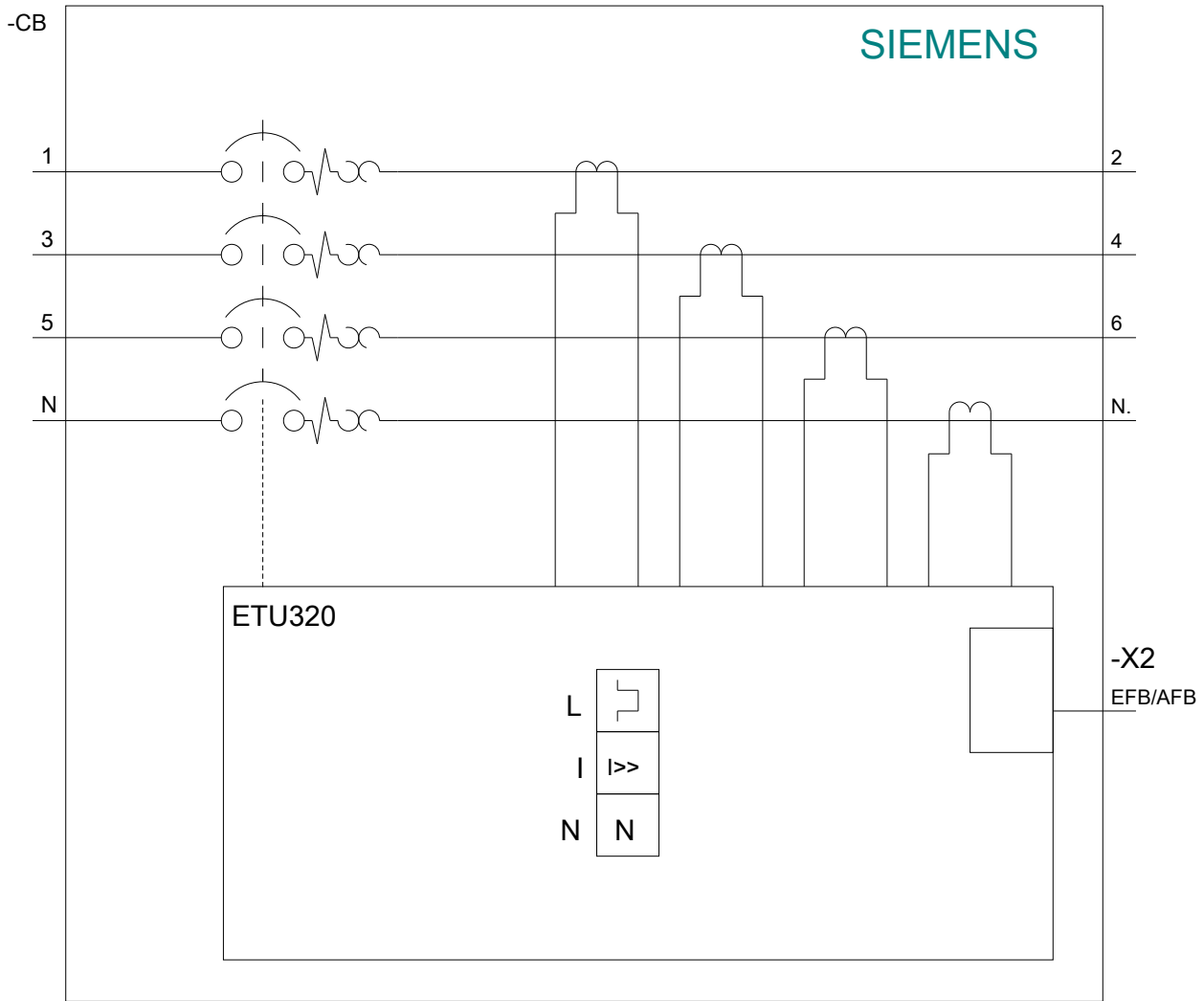
<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>







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