



circuit breaker 3VA2 IEC frame 630 breaking capacity class E
Icu=200 kA @ 415 V 4-pole, line protection ETU320, LI, In=630A
overload protection Ir=250A ... 630A short circuit protection Ii=1,5...9
x In neutral protection adjustable(OFF 50% 100%) busbar connection

Model	
Product brand name	SETRON
Product designation	Molded case circuit breaker
Product version	Line protection
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	690 V
Power loss [W] / maximum	162 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	54 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	4 000
Neutral conductors / upgradeable/retrofitable	No

Ground fault monitoring version	Without
Product function	
• communication function	No
• other measurement function	No

Current	
Max. rated operational current of the frame size	630 A
Rated continuous current I_u	630 A
Operating current	
• at 40 °C	630 A
• at 45 °C	612 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	85 kA
Operational short-circuit current breaking capacity (I_{cs})	
• at 415 V	200 kA
• at 690 V	65 kA
Short-circuit current making capacity (I_{cm})	
• at 415 V	440 kA
• at 690 V	187 kA

Adjustable parameters	
Adjustable response value current / I_r min.	250 A
Adjustable response value current / I_r max.	630 A
Adjustable response value time / t_r min.	0.5
Adjustable response value time / t_r max.	12
Adjustable response value current / I_i min.	945 A
Adjustable response value current / I_i max.	5 670 A
Design of the N-conductor protection	adjustable OFF; 50%; 100%
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	Front terminal
Type of electrical connection / for main current circuit	on both sides nut keeper kit
Type of connectable conductor cross-section, connection screw, width x thickness , min.	20 x 1 mm
Type of connectable conductor cross-section, connection screw, width x thickness , max.	35 x 10 mm

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	
• during operation / minimum	-25 °C
• during operation / maximum	70 °C
• during storage / minimum	-40 °C
• during storage / maximum	80 °C

Certificates

Reference code / acc. to DIN EN 81346-2	Q
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General Product Approval	EMC	Declaration of Conformity	Test Certificates
Miscellaneous 	 RCM	 EG-Konf.	Miscellaneous Special Test Certificate

Shipping Approval	other
CCS / China Classification Society	Manufacturer Declaration Miscellaneous

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?mlfb=3VA2463-0HL42-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2463-0HL42-0AA0>

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

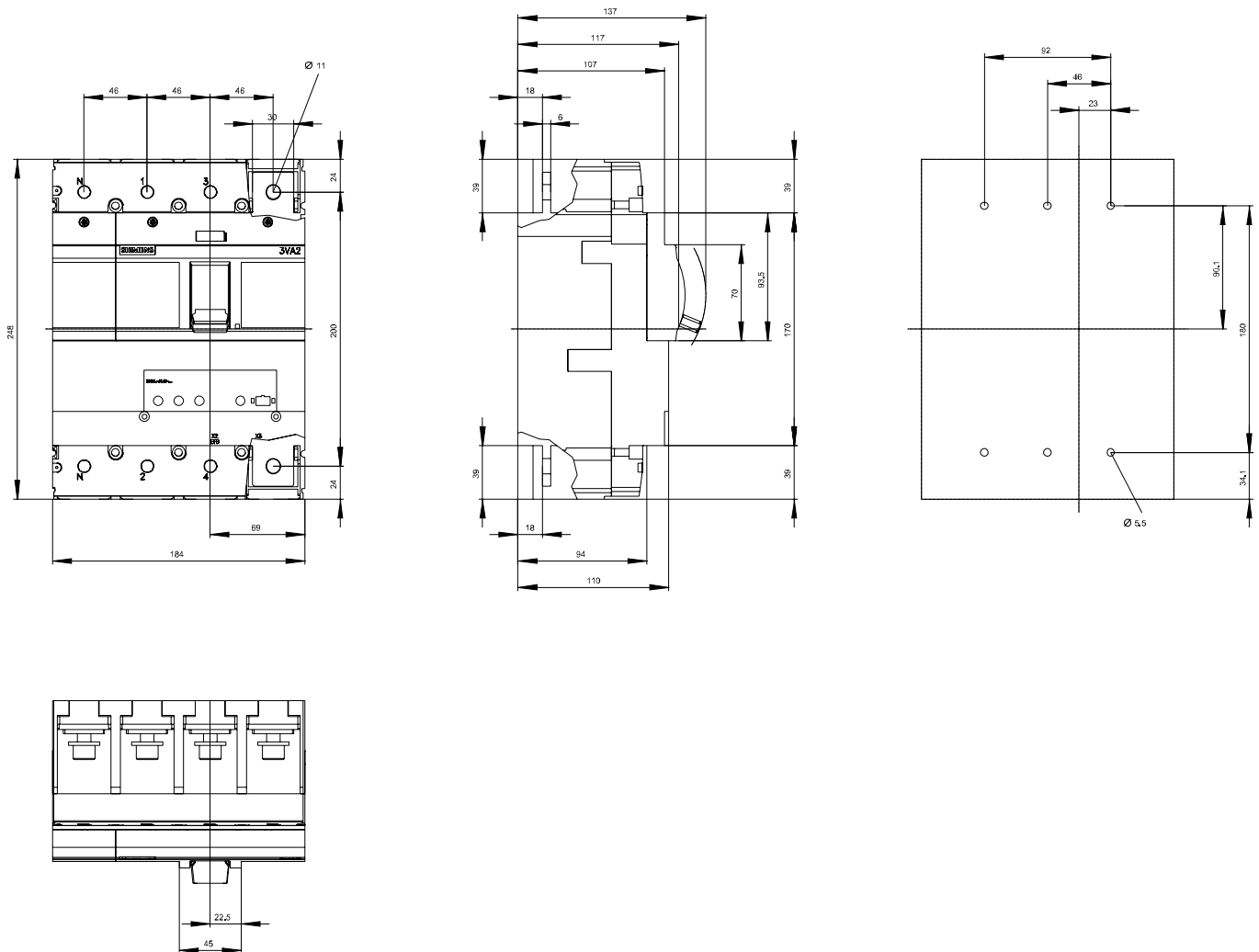
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2463-0HL42-0AA0

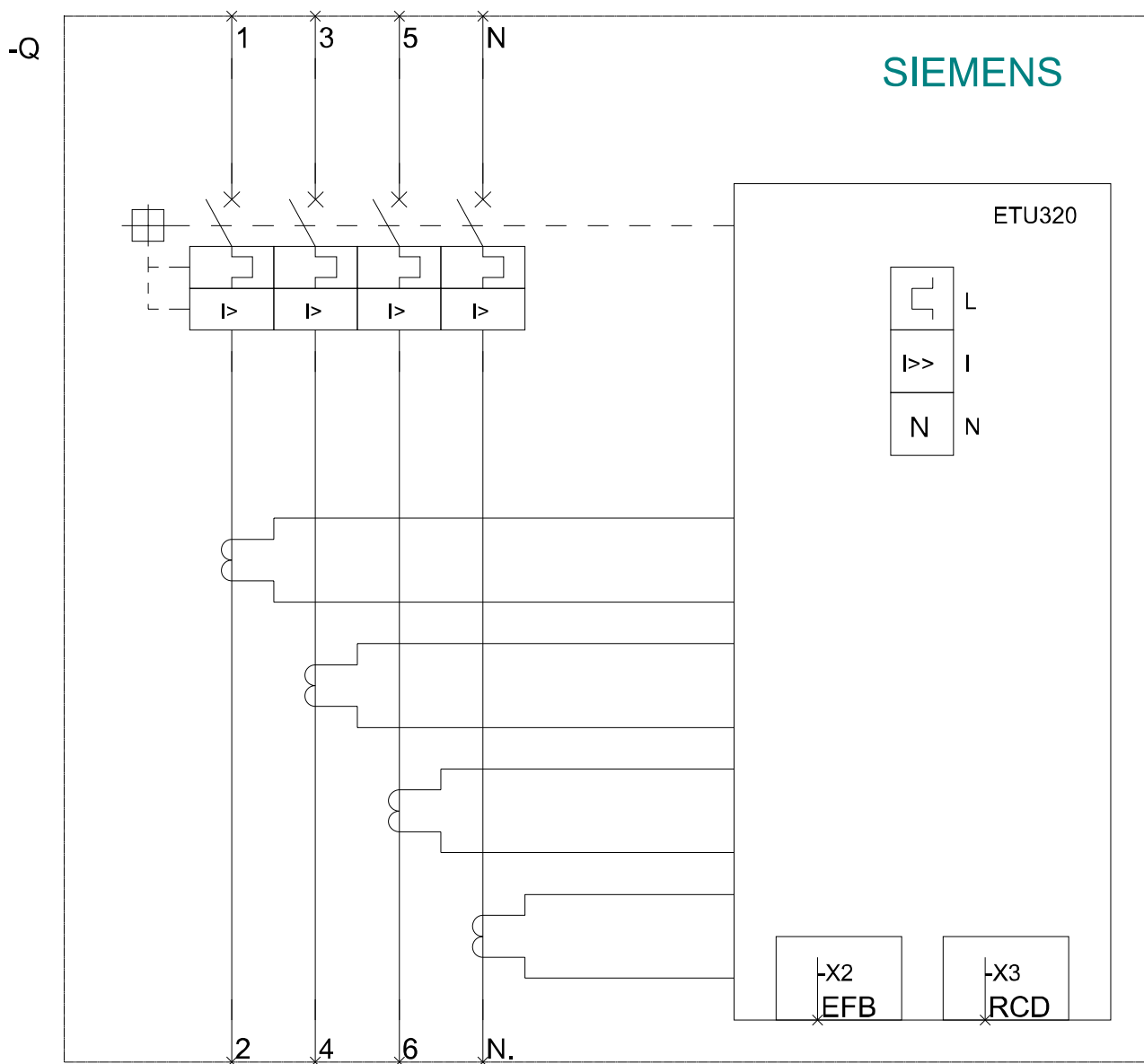
CAX-Online-Generator

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

Tender specifications

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





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