



circuit breaker 3VA2 IEC frame 160 breaking capacity class E
Icu=200 kA @ 415 V 4-pole, line protection ETU320, LI, In=63A
overload protection Ir=25A ... 63A short circuit protection Ii=1,5...12 x
In neutral protection adjustable(OFF 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	3.1 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	1.03 W
Mechanical service life (switching cycles) / typical	20 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	12 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	8 000
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	160 A
Rated continuous current I_n	63 A
Operating current	
• at 40 °C	63 A
• at 45 °C	63 A
• at 50 °C	63 A
• at 55 °C	63 A
• at 60 °C	63 A
• at 65 °C	63 A
• at 70 °C	63 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.	25 A
Adjustable response value current / I_r max.	63 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.	95 A
Adjustable response value current / I_i max.	756 A
Design of the N-conductor protection	adjustable OFF; 100%
Ground fault protection / tripping switchable / I_{2t} =ON/OFF	No

Mechanical Design

Height [in]	7.1 in
Height	181 mm
Width [in]	5.5 in
Width	140 mm

Depth [in]	3.4 in
Depth	86 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.	13 x 1 mm
Type of connectable conductor cross-section, connection screw, width x thickness , max.	25 x 8.5 mm

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 / acc. to DIN EN 81346-2	Q

General Product Approval	EMC	Declaration of Conformity	Test Certificates	
Miscellaneous				Miscellaneous Special Test Certificate
	EAC	RCM	EG-Konf.	

Shipping Approval	other		
	CCS / China Classification Society	Manufacturer Declaration	Miscellaneous
LRS			

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=3VA2163-0HL42-0AA0

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2163-0HL42-0AA0>

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

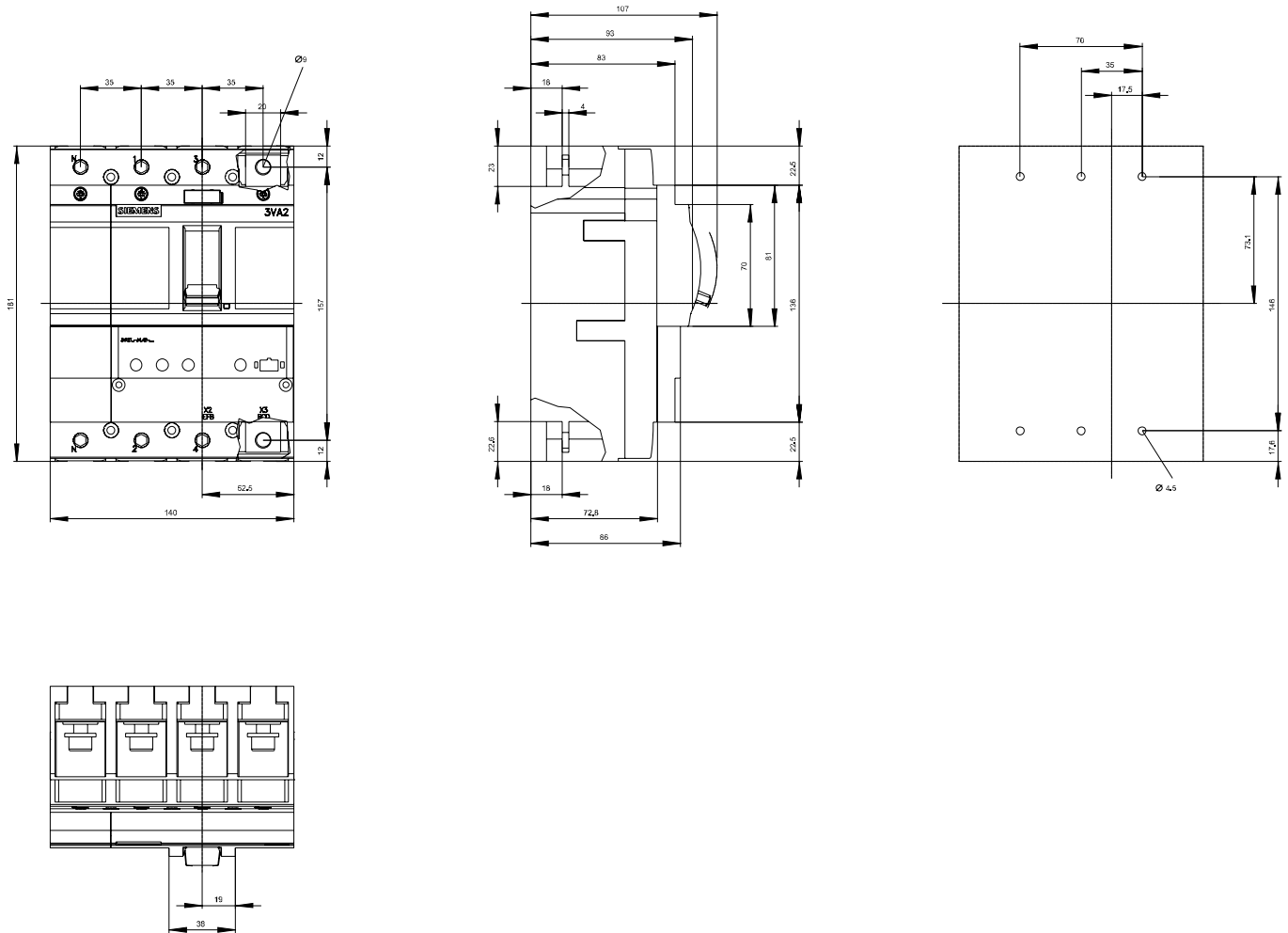
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2163-0HL42-0AA0

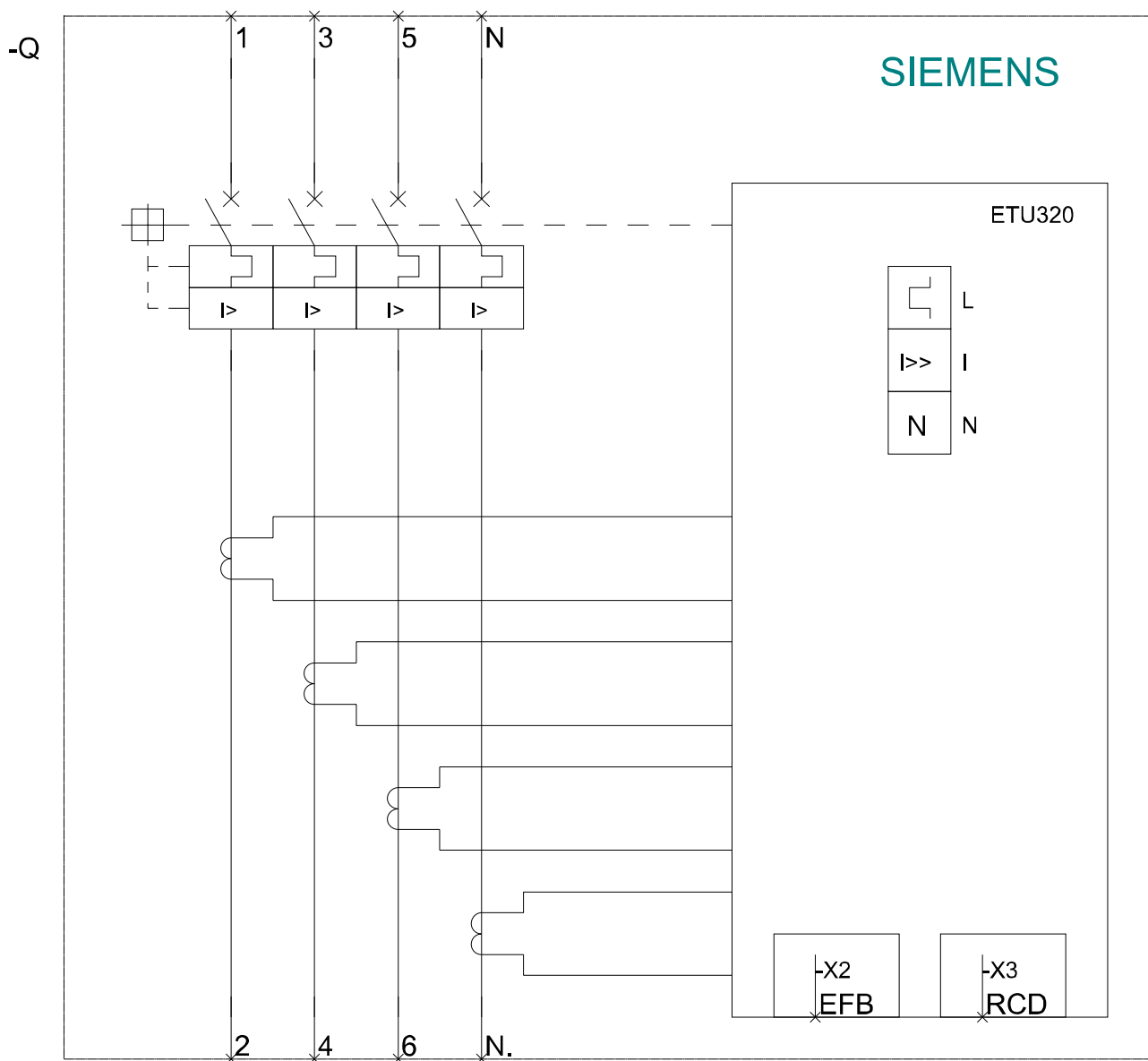
CAX-Online-Generator

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

Tender specifications

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





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