



circuit breaker 3VA2 IEC frame 160 breaking capacity class E
Icu=200 kA @ 415 V 4-pole, line protection ETU850, LSI, In=40A
overload protection Ir=16A ... 40A short circuit protection
Isd=0,6...10xIn, li=1,5...12xIn neutral protection adjustable(OFF up to
160%) cable connection

Model	
Product brand name	SETRON
Product designation	Molded case circuit breaker
Product version	Line protection
Design of the overcurrent release	ETU850
Protective function of the overcurrent release	LSI
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	1.2 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	0.4 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	Yes
• other measurement function	Yes

Current

Max. rated operational current of the frame size	160 A
Rated continuous current I_u	40 A
Operating current	
• at 40 °C	40 A
• at 45 °C	40 A
• at 50 °C	40 A
• at 55 °C	40 A
• at 60 °C	40 A
• at 65 °C	40 A
• at 70 °C	40 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.	16 A
Adjustable response value current / I_r max.	40 A
Adjustable response value time / t_r min.	0.5
Adjustable response value time / t_r max.	25
Adjustable response value current / I_{sd} min.	24 A
Adjustable response value current / I_{sd} max.	400 A
Adjustable response value time / t_{sd} min.	0.05 s
Adjustable response value time / t_{sd} max.	0.5 s
Adjustable response value time / t_{sd} min.	0.05 s
Adjustable response value time / t_{sd} max.	0.5 s
Adjustable response value current / I_i min.	60 A
Adjustable response value current / I_i max.	480 A
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	double-sided box terminal				
Type of connectable conductor cross-section, round conductor terminal, stranded	1 x (6-120 mm²)				
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		 RCM	 EG-Konf.	Miscellaneous	Special Test Certificate
Shipping Approval		other			
 LRS	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=3VA2140-0KP46-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2140-0KP46-0AA0>

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

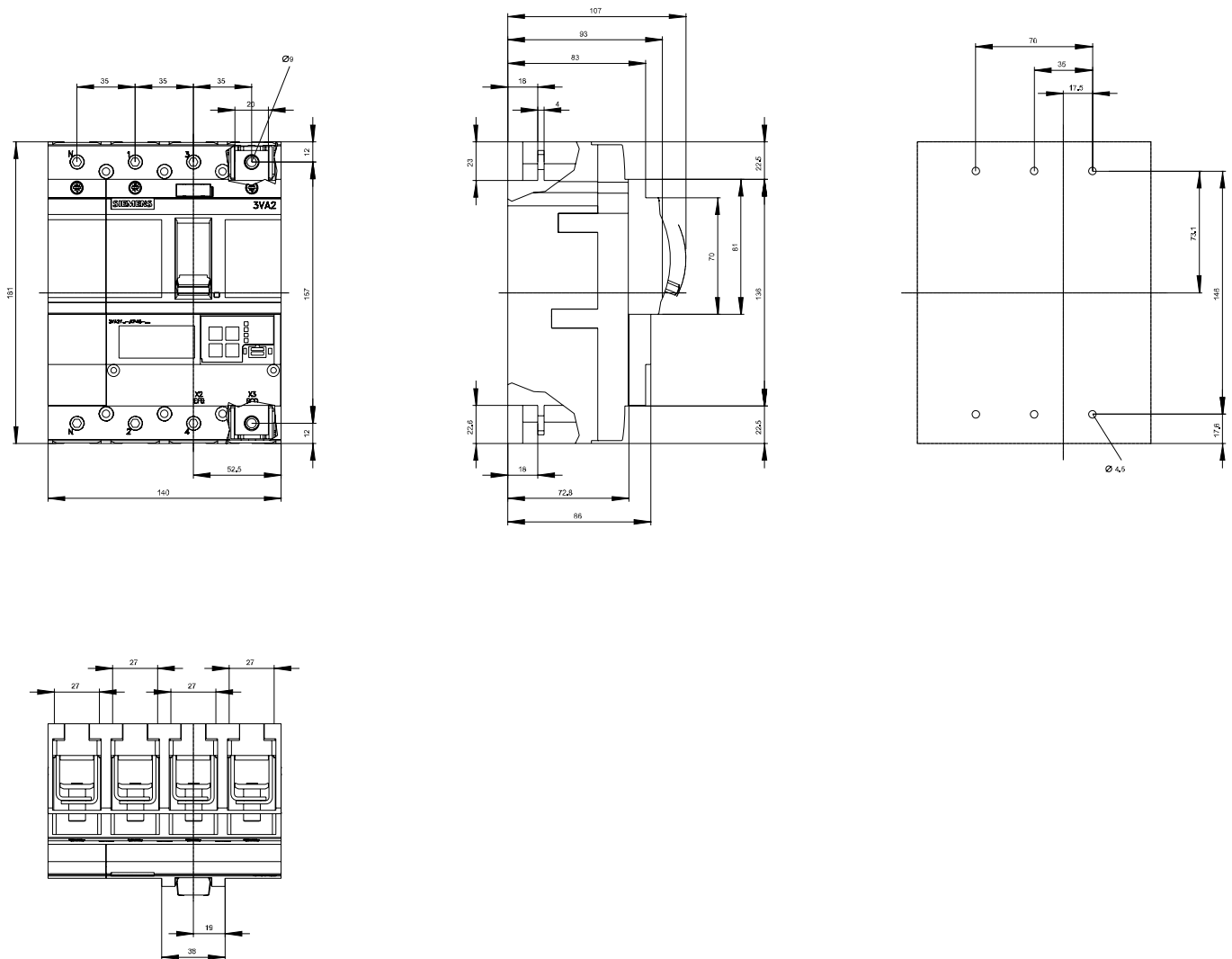
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2140-0KP46-0AA0

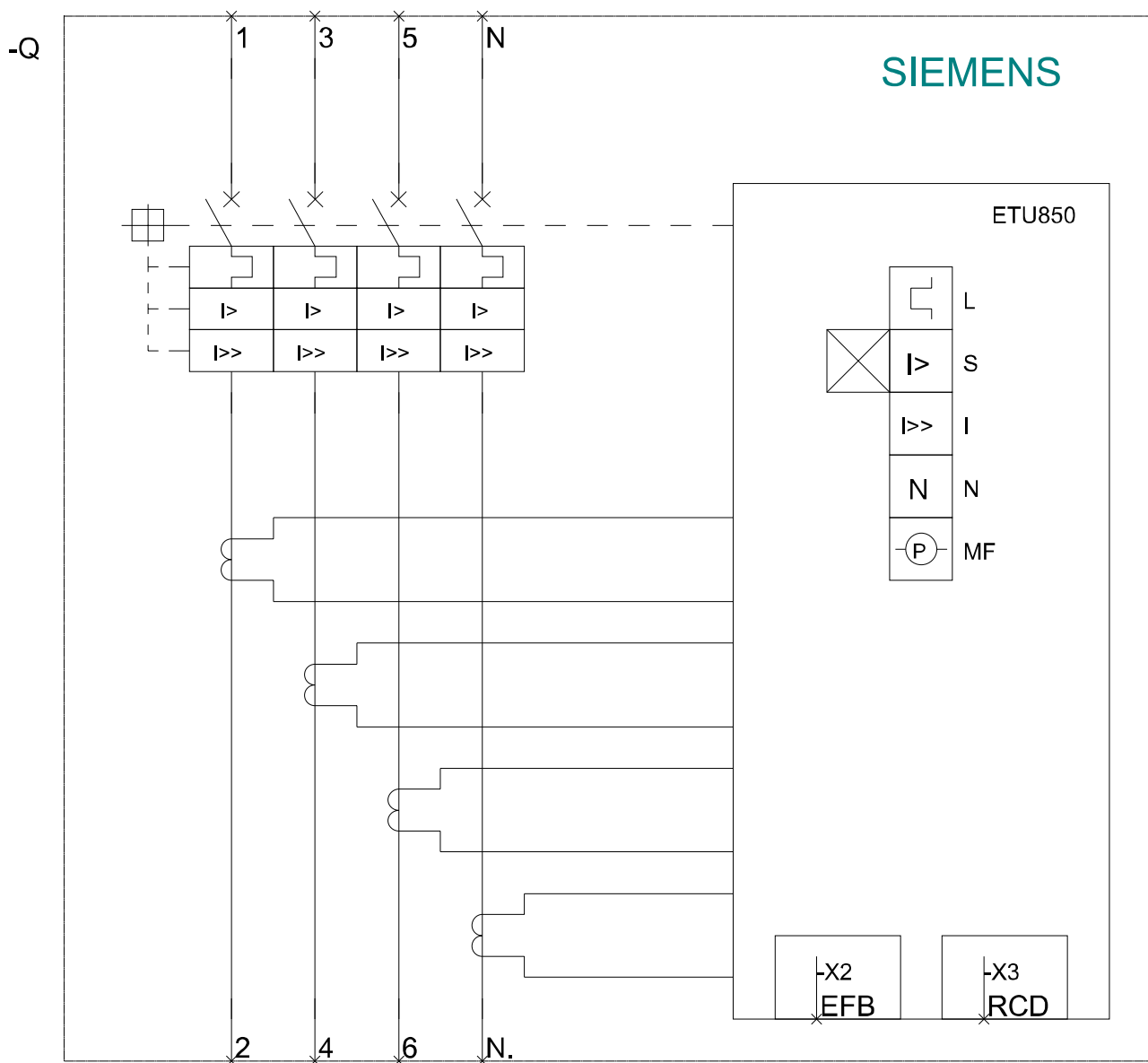
CAX-Online-Generator

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

Tender specifications

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





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