



circuit breaker 3VA4 UL frame 125 breaking capacity class S 25kA @ 480 V 3-pole, line protection TM210, FTFM, In=70A overload protection Ir=70A fixed short-circuit protection li=10 x In clamp connection

Model	
product brand name	SETRON
product designation	Molded-case circuit breaker
product designation / according to UL file	SEAB
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	TM210
protection function of the overcurrent release	LI
number of poles	3
General technical data	
power loss [W] / maximum	16 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	5.33 W
mechanical service life (switching cycles) / typical	15 000
electrical endurance (switching cycles) / at 480 V	8 000
electrical endurance (switching cycles) / at 600 V	4 000
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	125 A
Courant permanent assigné lu	70 A
operational current	
• at 40 °C	70 A
• at 45 °C	69 A
• at 50 °C	68 A
• at 55 °C	67 A
• at 60 °C	65 A
• at 65 °C	64 A
• at 70 °C	63 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	S
Switching capacity according to UL 489	

breaking capacity current			
• at 240 V	65 kA		
• at 480 Y/277 V	25 kA		
• at 480 V	25 kA		
• at 600 Y/347 V	14 kA		
Adjustable parameters			
Adjustable response value current / li min.	700 A		
Adjustable response value current / li max.	700 A		
Ground fault protection / tripping switchable / I2t=ON/OFF	No		
Mechanical Design			
height [in]	5.1 in		
Height	129.4 mm		
width [in]	3 in		
Width	76.2 mm		
depth [in]	3 in		
depth	75.1 mm		
Connections			
arrangement of electrical connectors / for main current circuit	Load side: Circular conductor terminal		
type of electrical connection / for main current circuit	Infeed side: Low tab		
Type of connectable conductor cross-section, round conductor terminal, stranded	1 x (8 AWG - 3/0)		
design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)	Tin		
Auxiliary circuit			
number of CO contacts / for auxiliary contacts	0		
Accessories			
product extension / optional / motor drive	No		
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 IEC 81346-2	Q		
General Product Approval		EMC	other



[Miscellaneous](#)



[Miscellaneous](#)

other

[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?mfb=3VA4170-4ED34-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA4170-4ED34-0AA0>

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

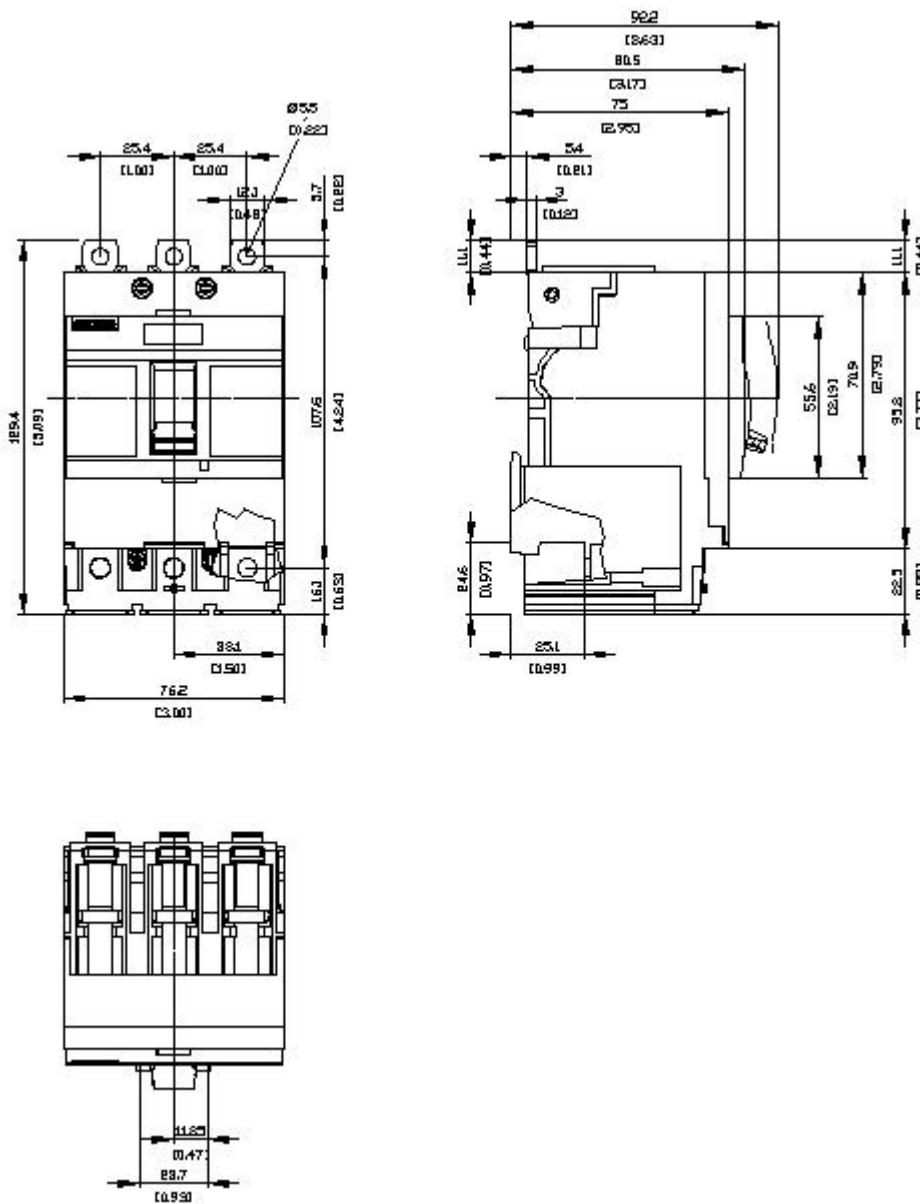
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA4170-4ED34-0AA0

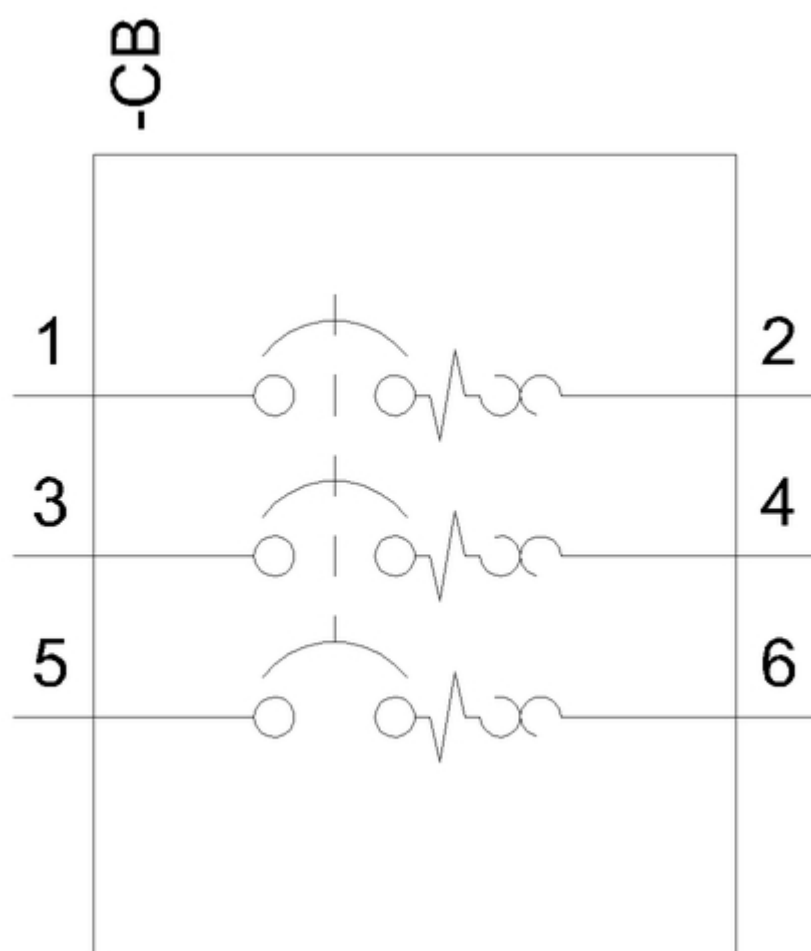
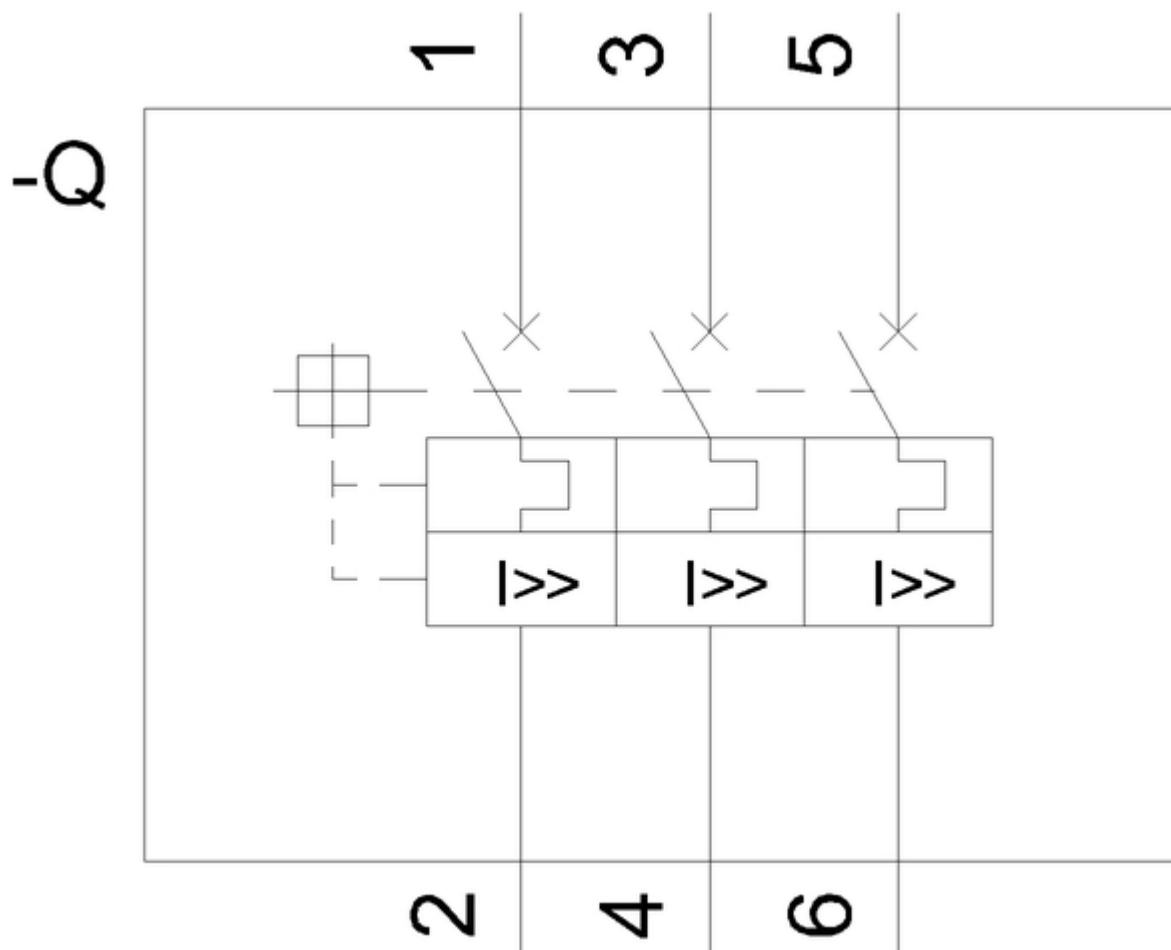
CAX-Online-Generator

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

Tender specifications

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





last modified:

8/13/2021 