



circuit breaker 3VA4 UL frame 125 breaking capacity class H 65kA @ 480 V 3-pole, line protection TM210, FTFM, In=20A overload protection Ir=20A fixed short-circuit protection li=15 x In clamp connection

Model	
product brand name	SETRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HEAB
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 load switch / acc. to UL 489 / High-Intensity-Discharge circuit breaker (HID Type)	Yes
design of the load switch / acc. to UL 489 / Switching Duty circuit breaker (SWD 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	8.5 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	2.83 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	20 A
operational current	
• at 40 °C	20 A
• at 45 °C	20 A
• at 50 °C	19 A
• at 55 °C	19 A
• at 60 °C	18 A
• at 65 °C	18 A
• at 70 °C	17 A

Switching capacity according to IEC 60947			
switching capacity class of the circuit breaker		H	
Switching capacity according to UL 489			
breaking capacity current			
• at 240 V		100 kA	
• at 480 Y/277 V		65 kA	
• at 480 V		65 kA	
• at 600 Y/347 V		25 kA	
Adjustable parameters			
Adjustable response value current / li min.		300 A	
Adjustable response value current / li max.		300 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 (14 AWG - 8 AWG)	
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?mlfb=3VA4120-6ED34-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA4120-6ED34-0AA0>

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

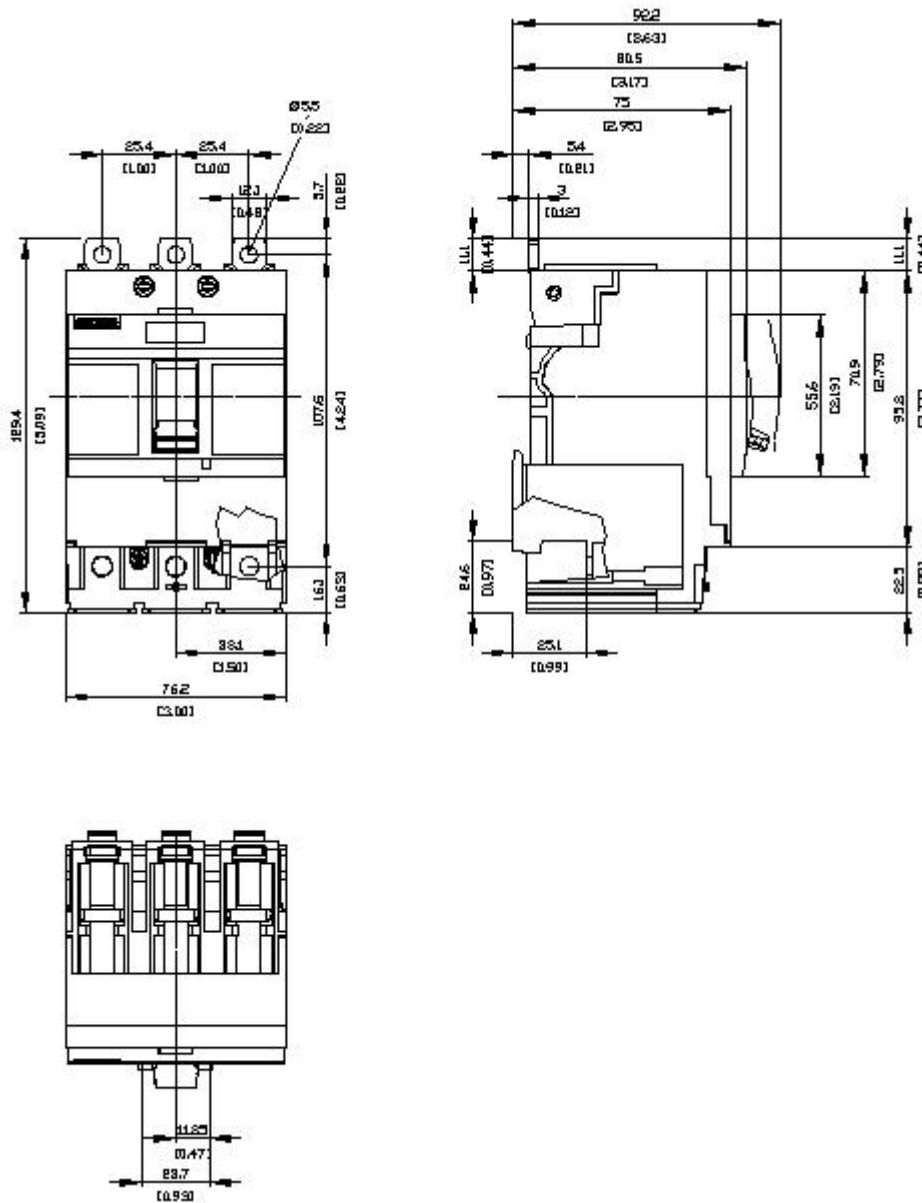
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA4120-6ED34-0AA0

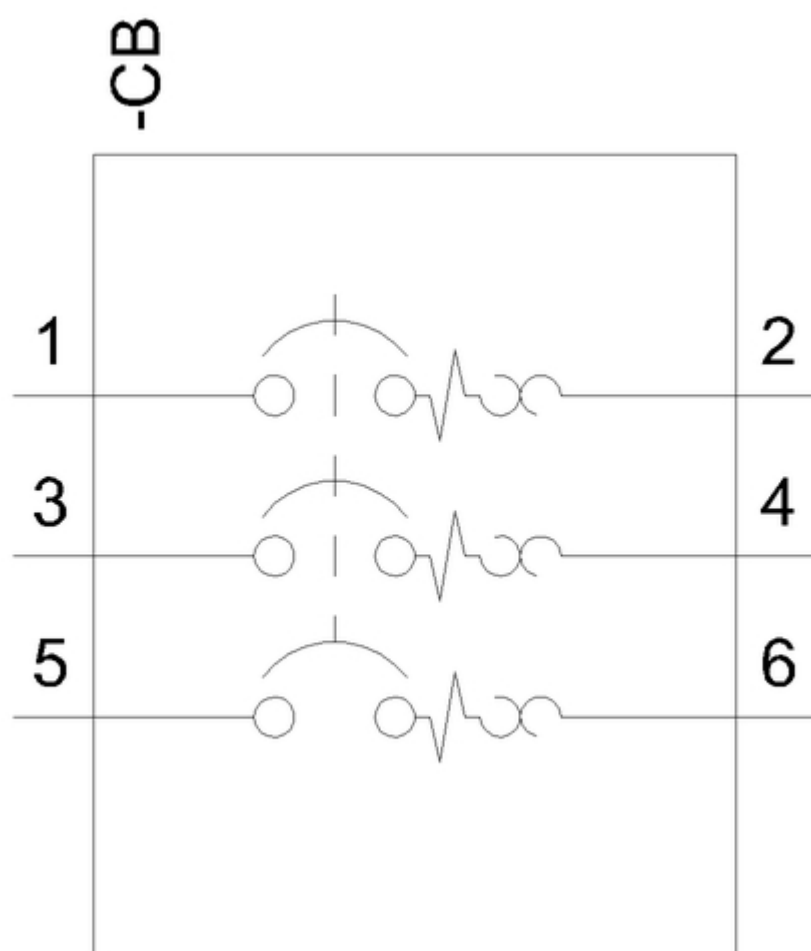
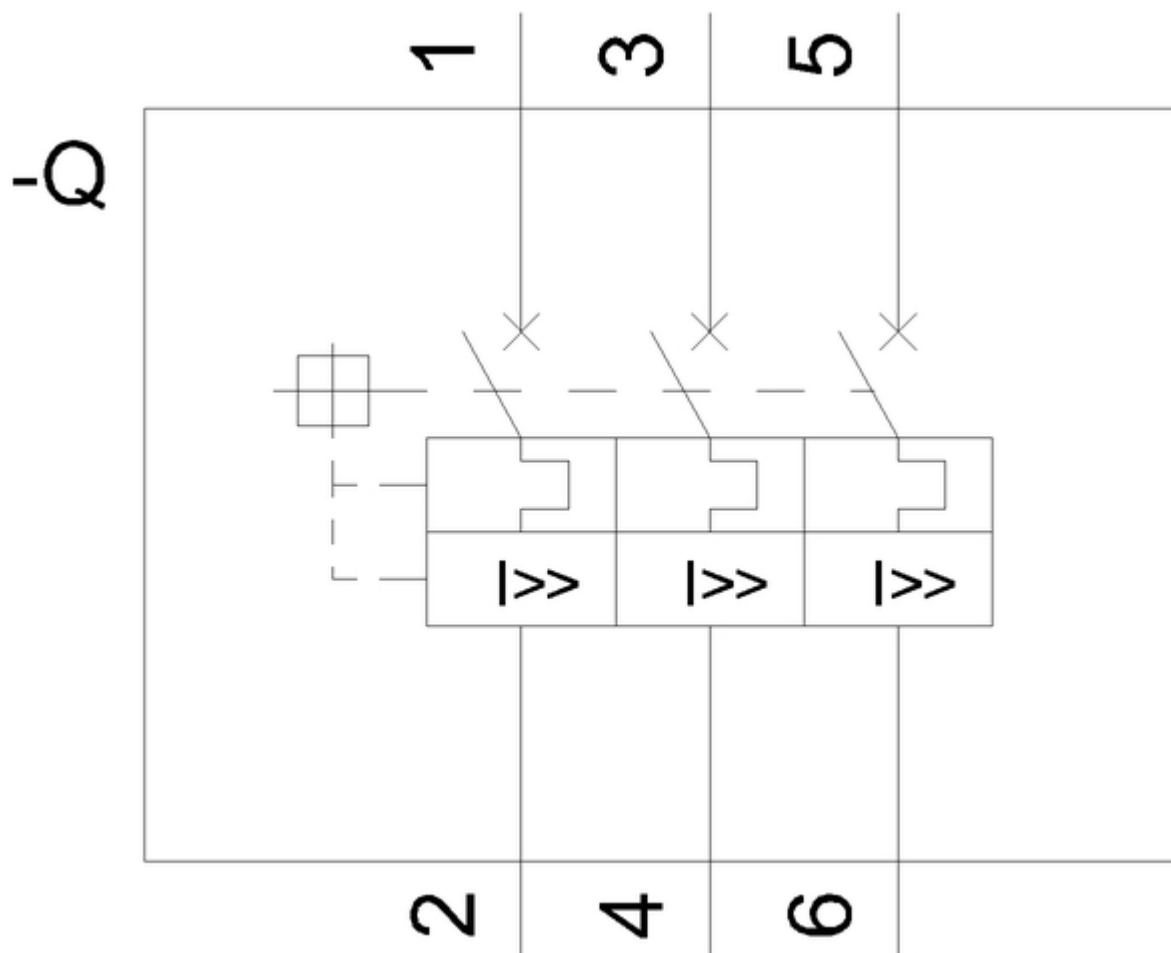
CAX-Online-Generator

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

Tender specifications

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





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