



circuit breaker 3VA4 UL frame 125 breaking capacity class S 25kA @ 480 V 2-pole, line protection TM210, FTFM, In=60A overload protection Ir=60A fixed short-circuit protection li=10 x In clamp connection

Model	
product brand name	SENTRON
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	2
General technical data	
power loss [W] / maximum	9.3 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	4.65 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	60 A
operational current	
• at 40 °C	60 A
• at 45 °C	59 A
• at 50 °C	58 A
• at 55 °C	56 A
• at 60 °C	55 A
• at 65 °C	54 A
• at 70 °C	53 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	S
design of short-circuit protection	For switching power values in DC networks, see the 3VA molded case

	circuit breaker device manual; link to be found under Service & Support in the last chapter		
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.			600 A
Adjustable response value current / li max.			600 A
Ground fault protection / tripping switchable / I2t=ON/OFF			No
Mechanical Design			
height [in]			5.1 in
Height			129.4 mm
width [in]			2 in
Width			50.8 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>

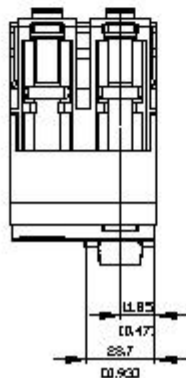
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA4160-4ED24-0AA0>

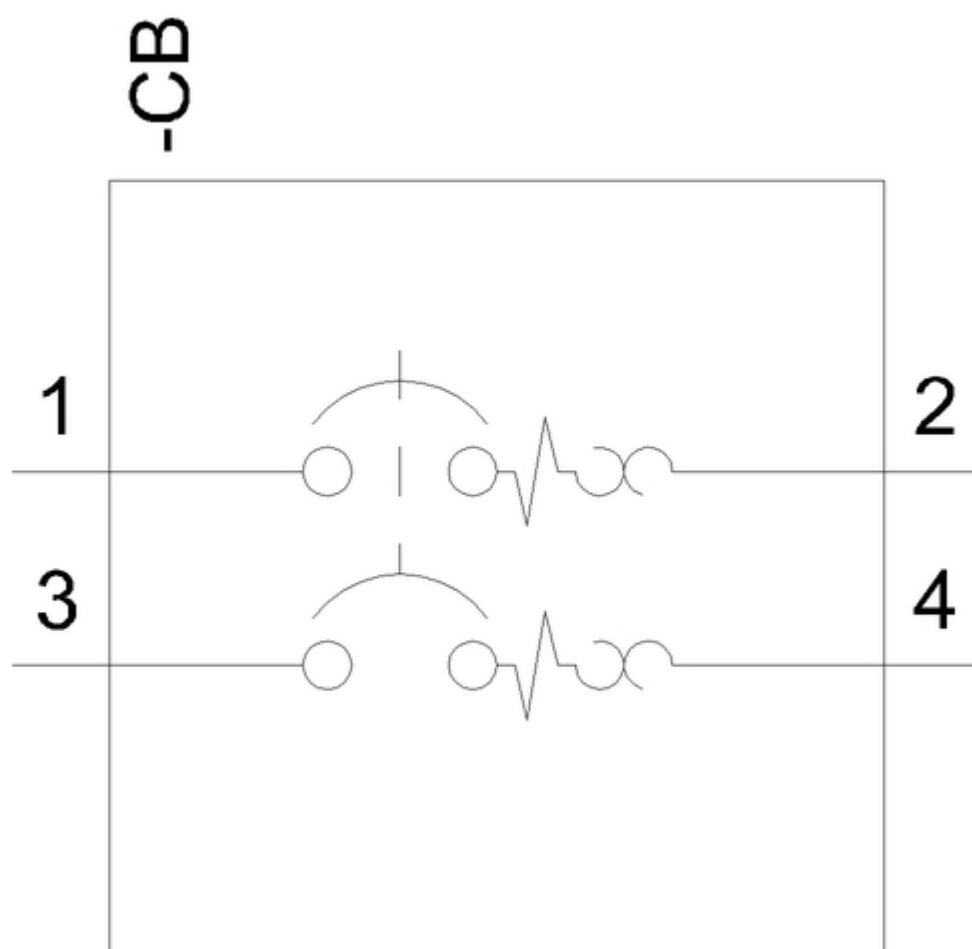
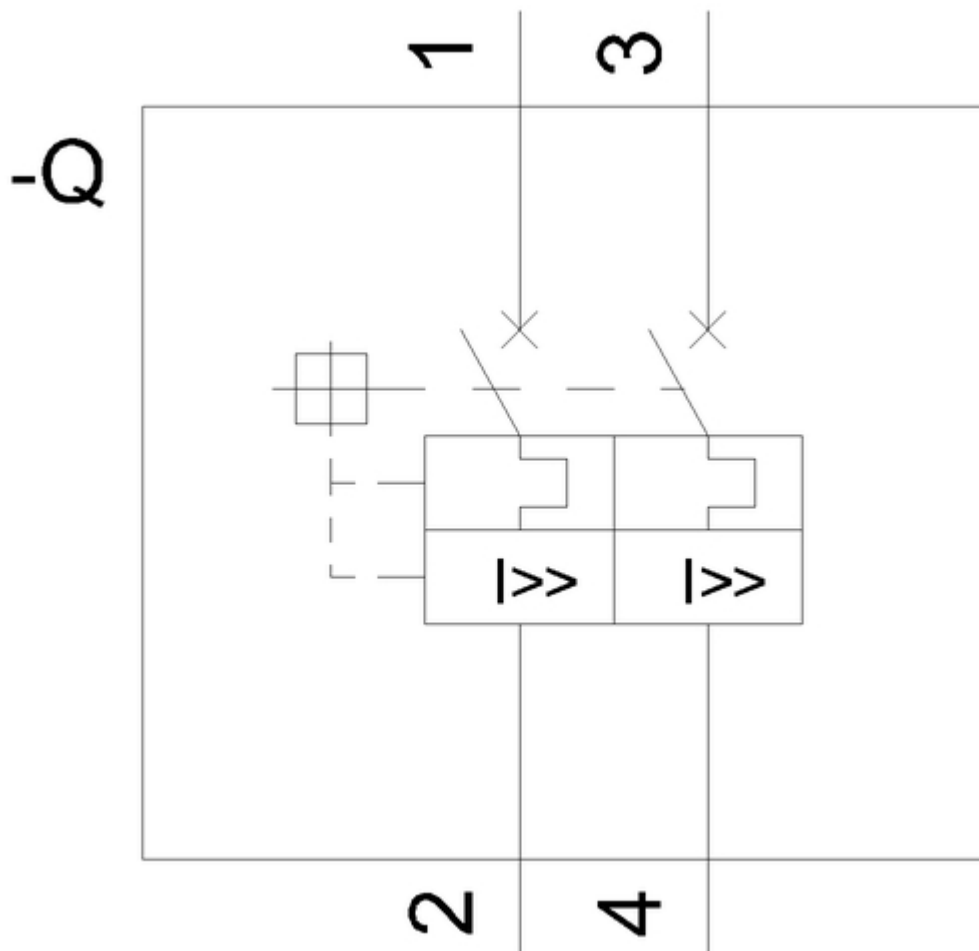
<https://support.industry.siemens.com/cs/ww/en/ps/3VA4160-4ED24-0AA0>

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA4160-4ED24-0AA0

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