



circuit breaker 3VA4 UL frame 125 breaking capacity class S 25kA @ 480 V 2-pole, line protection TM210, FTFM, In=90A overload protection Ir=90A 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	11.8 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	5.9 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	90 A
operational current	
• at 40 °C	90 A
• at 45 °C	88 A
• at 50 °C	86 A
• at 55 °C	84 A
• at 60 °C	81 A
• at 65 °C	79 A
• at 70 °C	77 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.	900 A		
Adjustable response value current / li max.	900 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>

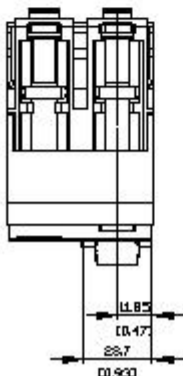
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA4190-4ED24-0AA0>

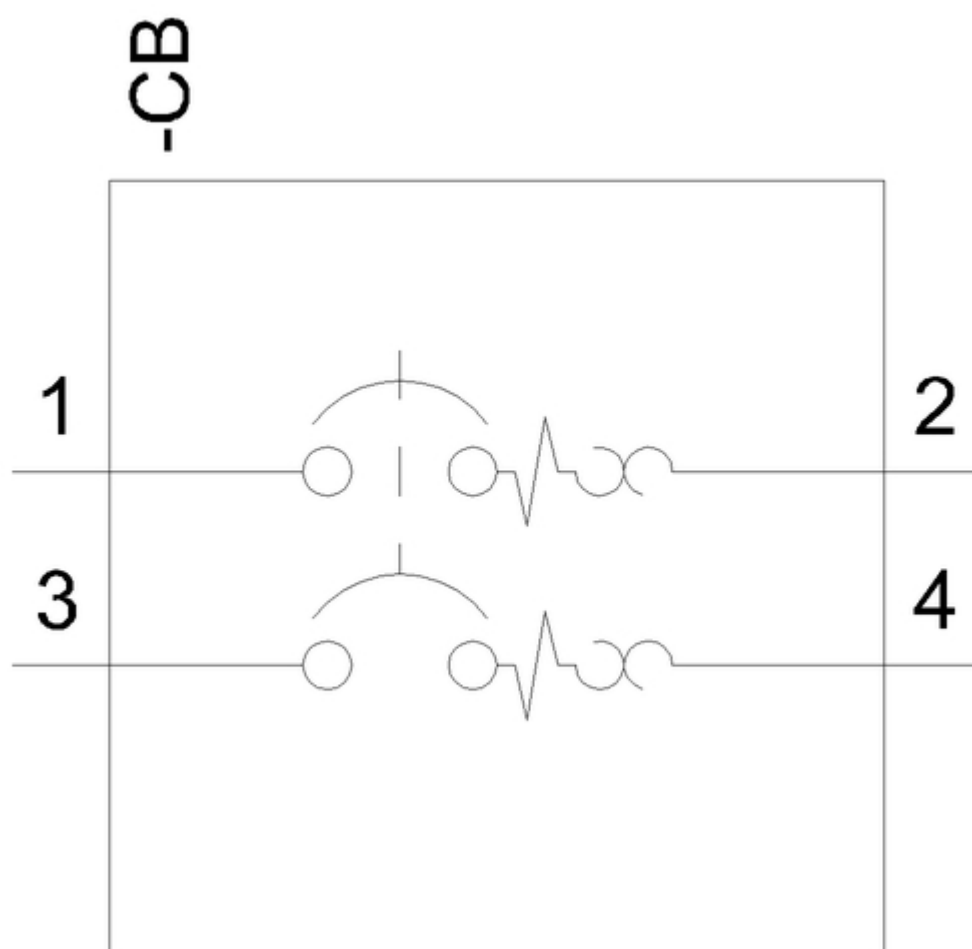
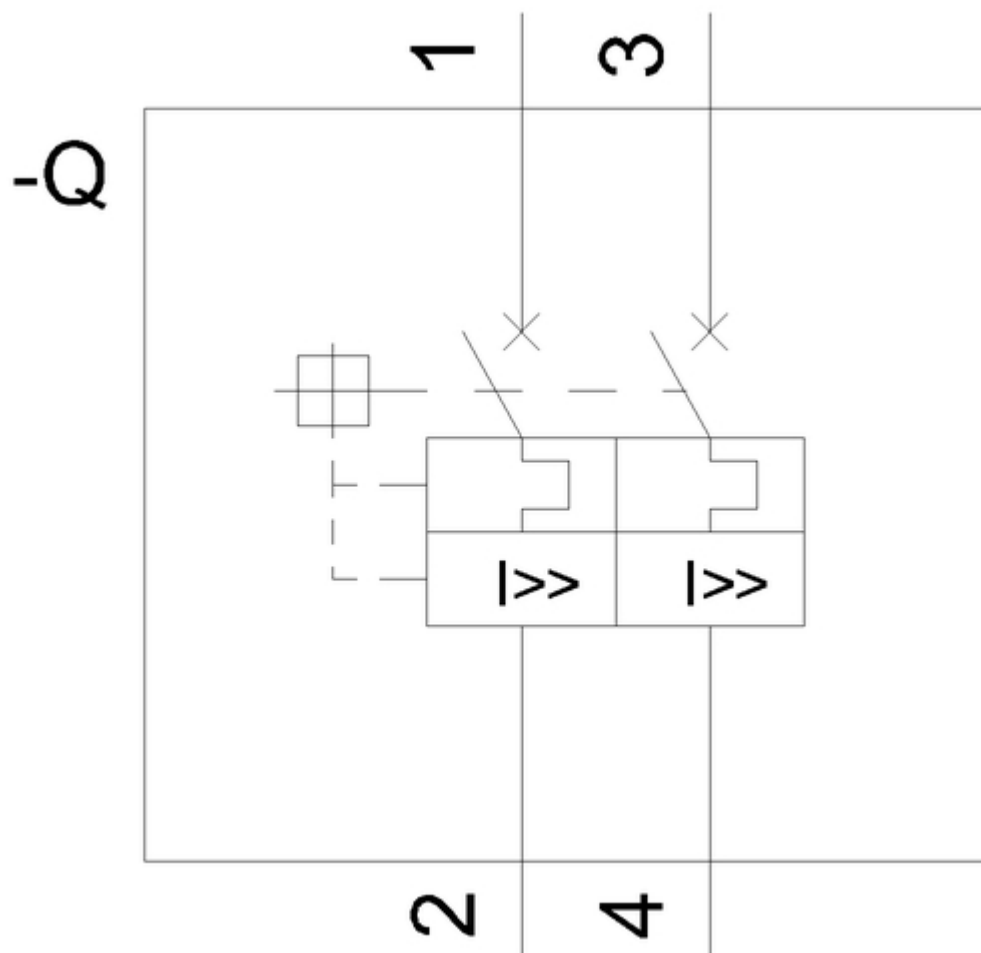
<https://support.industry.siemens.com/cs/ww/en/ps/3VA4190-4ED24-0AA0>

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