



circuit breaker 3VA4 UL frame 125 breaking capacity class H 65kA @ 480 V 3-pole, line protection TM210, FTFM, In=50A overload protection Ir=50A 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	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 overcurrent release	TM210
protection function of the overcurrent release	LI
number of poles	3
General technical data	
power loss [W] / maximum	9.7 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	3.23 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 Iu	50 A
operational current	
• at 40 °C	50 A
• at 45 °C	49 A
• at 50 °C	47 A
• at 55 °C	46 A
• at 60 °C	44 A
• at 65 °C	43 A
• at 70 °C	41 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.	500 A			
Adjustable response value current / li max.	500 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](#)

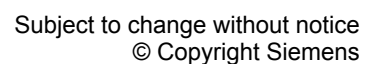
Further information

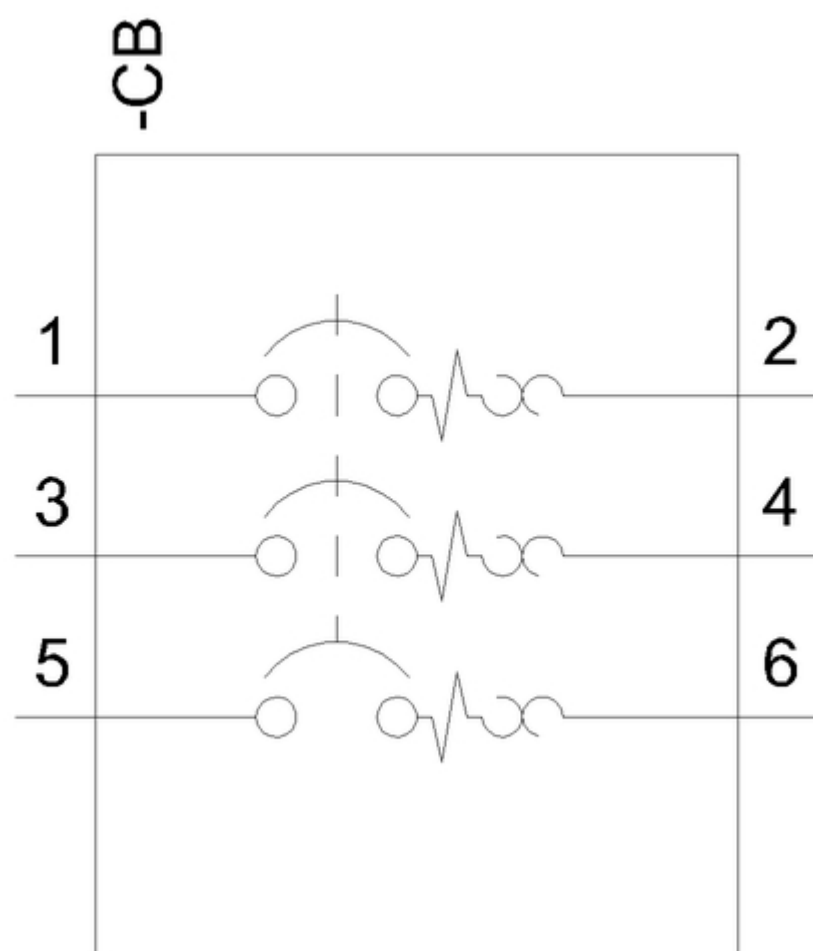
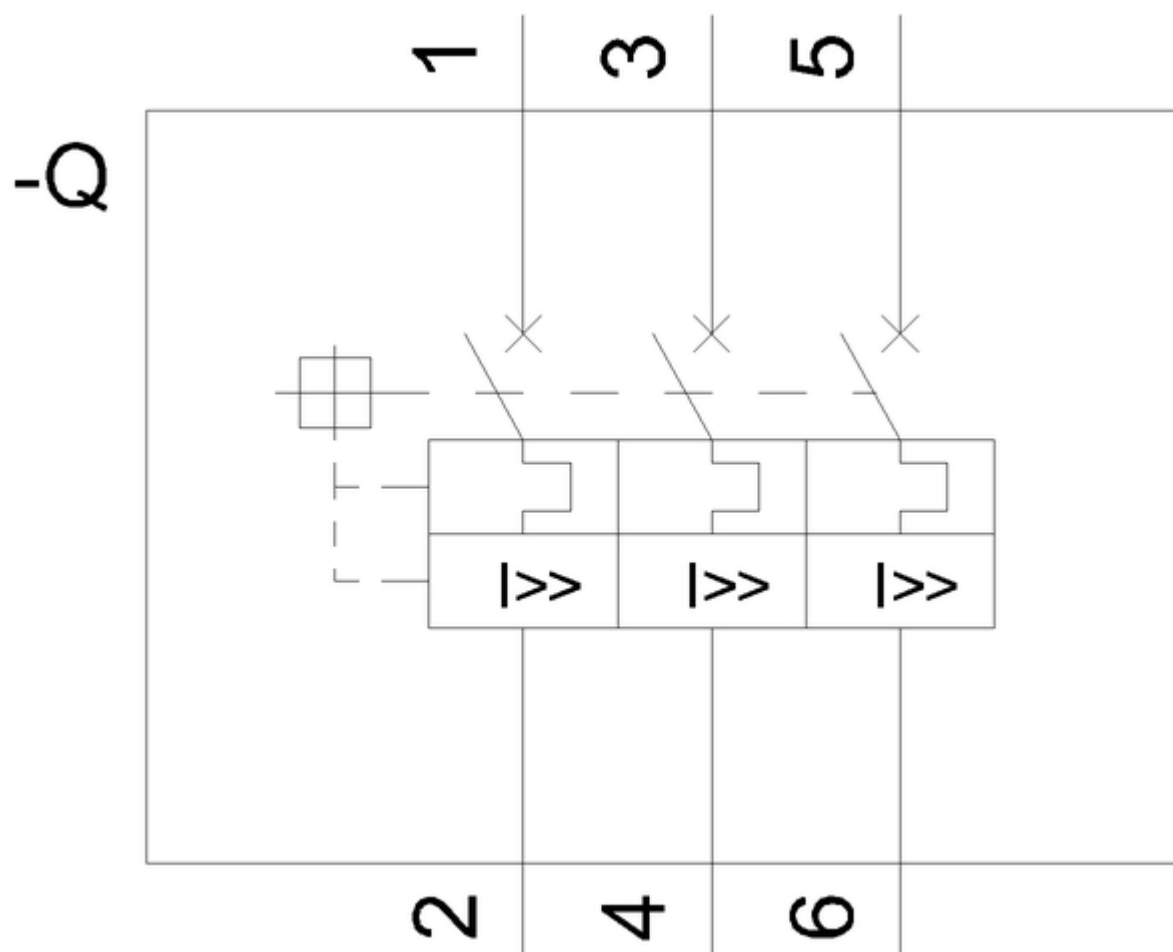
Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

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





last modified:

8/13/2021 