



circuit breaker 3VA5 UL frame 250 breaking capacity class H 65kA @ 480 V 3-pole, line protection TM210, FTFM, In=125A overload protection Ir=125A fixed short-circuit protection li=10 x In UL489 SB (naval), 50 deg. cel. nut keeper kit on both sides

Model	
product brand name	SETRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HFAM
Product version	System protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design of the load switch / according to UL 489 / High-Intensity-Discharge circuit breaker (HID Type)	No
design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type)	No
design of the overcurrent release	TM210
protection function of the overcurrent release	LI
number of poles	3
General technical data	
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	23 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	7.53 W
mechanical service life (switching cycles) / typical	20 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	8 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	4 000
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
Net Weight	2.192 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	125 A
• at 45 °C	121 A
• at 50 °C	116 A
• at 55 °C	112 A
• at 60 °C	108 A

• at 65 °C • at 70 °C	103 A	
	99 A	
Switching capacity according to IEC 60947		
switching capacity class of the circuit breaker	H	
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 • at 480 V • at 600 V	100 kA	
	65 kA	
	25 kA	
Adjustable parameters		
Adjustable response value current / I _g min.	125 A	
Adjustable response value current / I _g min.	125 A	
Ground fault protection / tripping switchable / I _{2t} =ON/OFF	No	
Mechanical Design		
height [in]	7.28 in	
Height	185 mm	
width [in]	4.13 in	
Width	105 mm	
depth [in]	3.27 in	
depth	83 mm	
Connections		
arrangement of electrical connectors / for main current circuit	Front connection	
type of electrical connection / for main current circuit	nut keeper kit on both ends	
Type of connectable conductor cross-section, connection screw, width x thickness , min.	13 x 1 mm	
Type of connectable conductor cross-section, connection screw, width x thickness , max.	25 x 8 mm	
design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)	silver	
Auxiliary circuit		
product component		
• undervoltage release • voltage trigger • trip indicator	No	
	No	
	No	
number of CO contacts / for auxiliary contacts	0	
Accessories		
product extension / optional / motor drive	Yes	
Environmental conditions		
protection class IP / on the front	IP40	
ambient temperature		
• during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum	-25 °C	
	70 °C	
	-40 °C	
	80 °C	
Certificates		
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Yes	
General Product Approval	EMC	Declaration of Conformity



[Confirmation](#)



Marine / Shipping other



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

Industry Mall (Online ordering system)

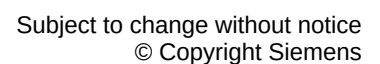
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

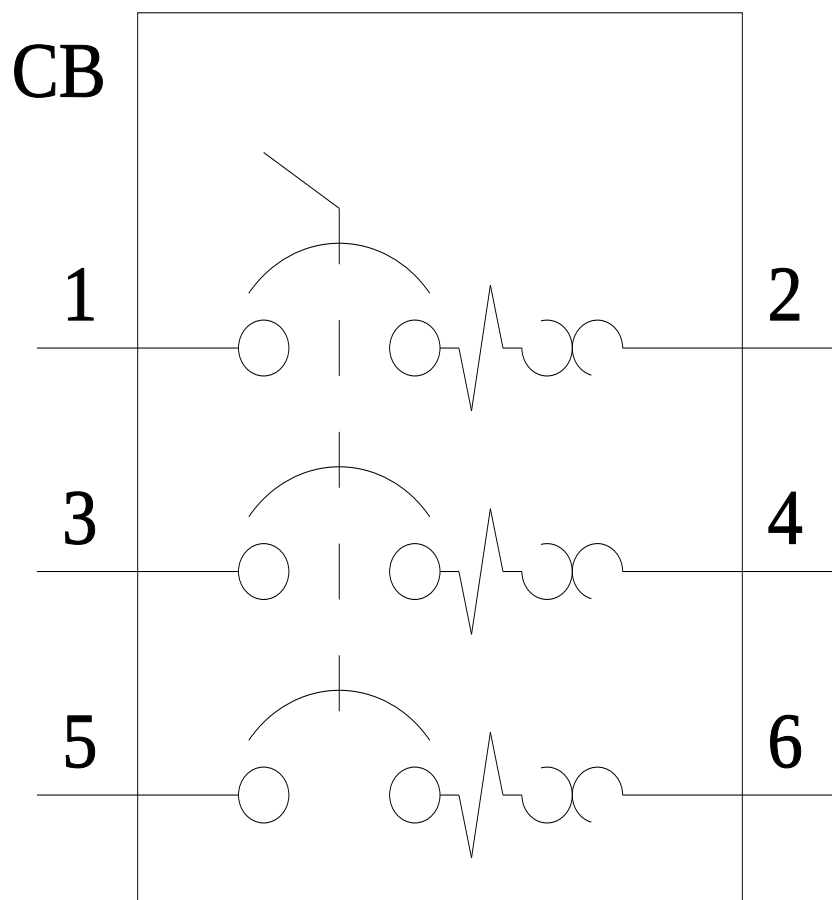
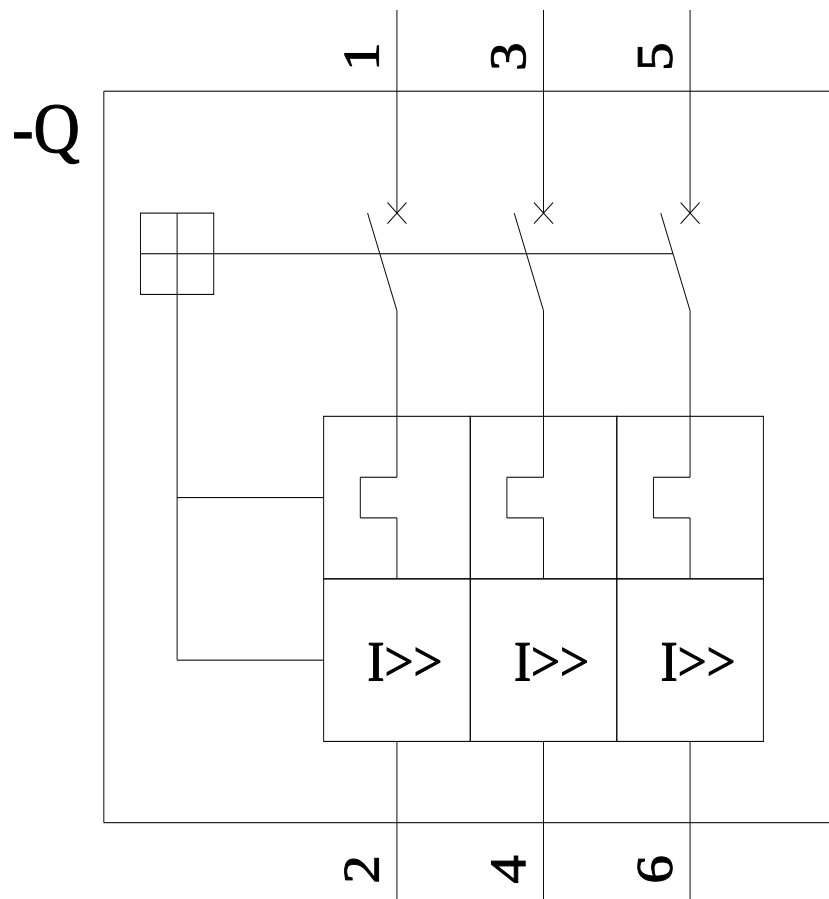
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

CAX-Online-Generator

Tender specifications

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





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