



circuit breaker 3VA4 UL Frame 125 breaking capacity class M 35 kA @ 277 V 1-pole, line protection TM210, FTFM, In=90 A overload protection Ir=90 A permanently set short-circuit protection Ii=10 x In UL 489 SB (naval), 50 °C, terminal connection

Model	
product brand name	SETRON
product designation	Molded-case circuit breaker
product designation / according to UL file	MEAM
design of the product	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	1
General technical data	
operating voltage / at AC / rated value	480 V
power loss [W] / maximum	5.9 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	5.9 W
mechanical service life (operating cycles) / typical	15 000
electrical endurance (operating cycles) / at 480 V	8 000
electrical endurance (operating cycles) / at 600 V	4 000
product feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof	No
ground-fault monitoring version	Without
product function	
• communication function	No
• other measurement function	No
Net Weight	0.28 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	90 A
• at 45 °C	90 A
• at 50 °C	90 A
• at 55 °C	88 A
• at 60 °C	86 A
• at 65 °C	84 A
• at 70 °C	81 A
Switching capacity according to IEC 60947	

switching capacity class of the circuit breaker	M	
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		
current breaking capacity - at 120 V - at 277 V - at 347 V	85 kA 35 kA 18 kA	
Adjustable parameters		
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic - minimum - maximum	1 s 1 s	
product function / grounding protection	No	
Mechanical Design		
product component - undervoltage release - voltage trigger - trip indicator	No No No	
height [in]	5.09 in	
height	129.4 mm	
width [in]	1 in	
type of connectable conductor cross-sections / of the round conductor terminal / stranded	1 x (8 AWG - 3/0)	
width	25.4 mm	
depth [in]	2.96 in	
depth	75.09 mm	
Connections		
arrangement of electrical connectors / for main current circuit	output side: circular conductor connection	
type of electrical connection / for main current circuit	Infeed side: Low tab	
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 - during operation / maximum - during storage / minimum - during storage / maximum	-25 °C 70 °C -40 °C 80 °C	
Approvals / Certificates		
General Product Approval	EMV	other



[Miscellaneous](#)

[Miscellaneous](#)



[Miscellaneous](#)

Environment

[Environmental Conformations](#)

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA4190-5ED14-1AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA4190-5ED14-1AA0>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA4190-5ED14-1AA0

CAX-Online-Generator

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

Tender specifications

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

Characteristic curves

https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP='HAUPT'></mmp_prod_no>



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