



circuit breaker 3VA4 UL frame 125 breaking capacity class H 65kA @ 277 V 1-pole, line protection TM210, FTFM, In=60A overload protection Ir=60A fixed short-circuit protection li=10 x In UL489 SB (naval), 50 deg. cel. clamp connection

Model	
product brand name	SETRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HEAM
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	1
General technical data	
power loss [W] / maximum	4.6 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	4.6 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	60 A
• at 50 °C	60 A
• at 55 °C	59 A
• at 60 °C	58 A
• at 65 °C	56 A
• at 70 °C	55 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		
<ul style="list-style-type: none"> • at 120 V • at 277 V • at 347 V 	150 kA 65 kA 25 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]	1 in	
Width	25.4 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		
<ul style="list-style-type: none"> • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum 	-25 °C 70 °C -40 °C 80 °C	
Certificates		
reference code / acc. to IEC 81346-2	Q	
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Yes	
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)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mifb=3VA4160-6ED14-1AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA4160-6ED14-1AA0>

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

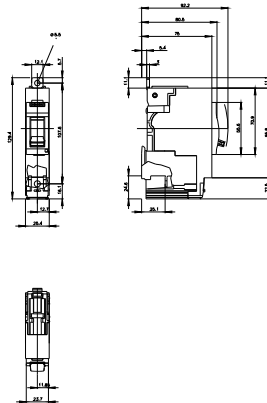
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA4160-6ED14-1AA0

CAX-Online-Generator

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

Tender specifications

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



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