SIEMENS

Data sheet

3VA5190-6EC31-1AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class H 65kA @ 480V 3-pole, line protection TM230, FTAM, In=90A overload protection Ir=90A fixed short-circuit protection Ii=5...10 x In UL 489 SB (naval), 50° C without connection

Model	
product brand name	SENTRON
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	TM230
protection function of the overcurrent release	LI
number of poles	3
General technical data	
power loss [W] / maximum	17.7 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 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/retrofittable	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	90 A
● at 50 °C	90 A
● at 55 °C	86.9 A
● at 60 °C	84.9 A
● at 65 °C	83 A
● at 70 °C	81.2 A

Switching capacity according to IEC 60947							
	switching capacity class of the circuit breaker H						
design of short-circuit			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 ac	cording to UL 489						
breaking capacity cur							
• at 240 V			100 kA				
• at 480 V			65 kA				
• at 600 Y/347 V			25 kA				
Adjustable parameter	S						
Adjustable response v	/alue current / lg min.		90 A				
Adjustable response			90 A				
Adjustable response v			450 A				
Adjustable response v			900 A				
Ground fault protectio	n / tripping switchable /	I2t=ON/OFF	No				
Mechanical Design							
height [in]			5.5 in				
Height			140 mm				
width [in]			3 in				
Width				76.2 mm			
depth [in]				3 in			
depth			76.5 mm				
Connections							
arrangement of electr circuit	ical connectors / for ma	in current	Withou	it connection			
type of electrical conn	type of electrical connection / for main current circuit			Without			
Auxiliary circuit							
number of CO contacts / for auxiliary contacts			0				
Accessories							
			Yes				
	Environmental conditions						
protection class IP / on the front			IP40				
ambient temperature			25 °C				
during operation / minimum			-25 °C 70 °C				
during operation / maximum			-40 °C				
during storage / minimum		-40 °C					
Certificates	5 5			80 C			
			0				
reference code / acc. to IEC 81346-2			Q				
combat vessels) / sup	/ as approval for NAVA plement SB	AL (NO	Yes				
General Product Ap	•						
Contrain roudor Ap							
				(UL) u	DE	<u>Miscellaneous</u>	
General Product Approval	EMC	Declaration of Conformity	f	Test Certificates	Shipping Approval	other	
EHC	RCM	CE EG-Konf.		<u>Miscellaneous</u>	ABS	<u>Miscellaneous</u>	

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?mlfb=3VA5190-6EC31-1AA0

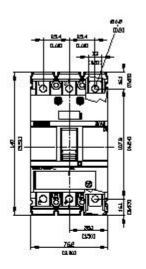
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

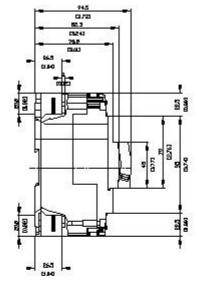
https://support.industry.siemens.com/cs/ww/en/ps/3VA5190-6EC31-1AA0

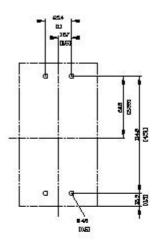
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5190-6EC31-1AA0

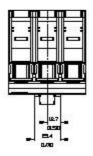
Tender specifications

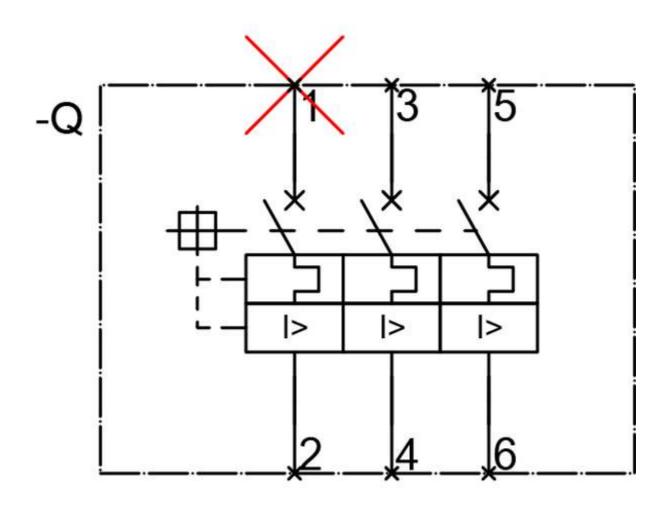
http://www.siemens.com/specifications

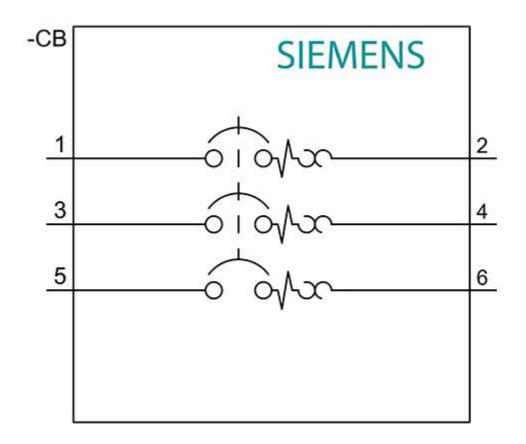












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