## **SIEMENS**

## **Data sheet**

3VA5190-6EC32-1AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class H 65kA @ 480 V 3-pole, line protection TM230, FTAM, In=90A overload protection Ir=90A fixed short-circuit protection Ii=5...10 x In UL489 SB (naval), 50 deg. cel. nut keeper kit on both sides

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 / 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	TM230		
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	21.4 W		
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	7.13 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/retrofittable	No		
ground-fault monitoring version	without		
product function			
<ul> <li>communication function</li> </ul>	No		
other measurement function	No		
Net Weight	0.951 kg		
Current			
marking / according to UL 489 / 100%-rated breaker	No		
operational current			
● at 40 °C	90 A		
● at 45 °C	88 A		
● at 50 °C	86 A		
● at 55 °C	84 A		
• at 60 °C	82 A		

● at 65 °C	80 A		
• at 70 °C	79 A		
Switching capacity according to IEC 60947			
switching capacity class of the circuit breaker	Н		
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	150 kA		
• at 480 V	65 kA		
● at 600 Y/347 V	25 kA		
Adjustable parameters			
Adjustable response value current / lg min.	90 A		
Adjustable response value current / lg min.	90 A		
Ground fault protection / tripping switchable / I2t=ON/OFF	No		
Mechanical Design			
height [in]	5.51 in		
Height	140 mm		
width [in]	3 in		
Width	76.2 mm		
depth [in]	3.01 in		
depth	76.5 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.	12 x 1 mm		
Type of connectable conductor cross-section, connection screw, width x thickness , max.	17 x 6.5 mm		
Auxiliary circuit			
product component			
<ul> <li>undervoltage release</li> </ul>	No		
<ul> <li>voltage trigger</li> </ul>	No		
trip indicator	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			
<ul><li>during operation / minimum</li></ul>	-25 °C		
<ul> <li>during operation / maximum</li> </ul>	70 °C		
<ul><li>during storage / minimum</li></ul>	-40 °C		
during storage / maximum	80 °C		
Certificates			
certificate of suitability / as approval for NAVAL (no	Yes		
combat vessels) / supplement SB			











other

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=3VA5190-6EC32-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5190-6EC32-1AA0

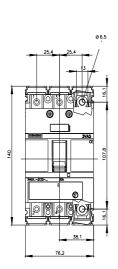
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5190-6EC32-1AA0">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5190-6EC32-1AA0</a>

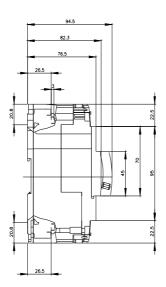
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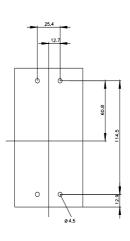
http://www.siemens.com/cax

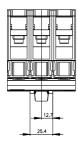
**Tender specifications** 

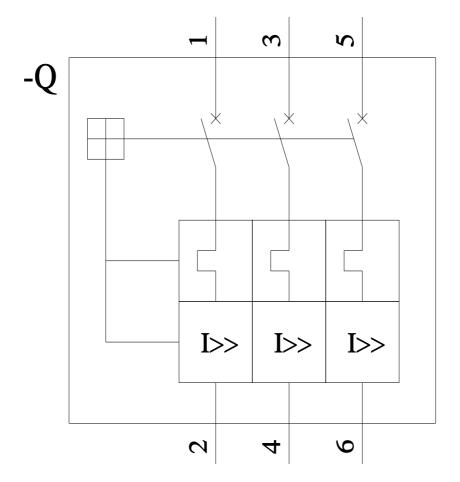
http://www.siemens.com/specifications

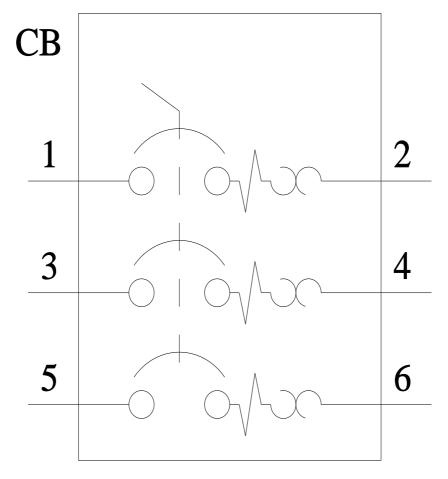












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