## SIEMENS

## Data sheet

## 3VA5290-5EC31-1AA0

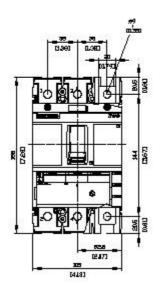


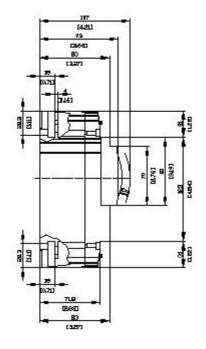
circuit breaker 3VA5 UL frame 250 breaking capacity class M 35kA @ 480V 3-pole, line protection TM230, FTAM, In=90A overload protection Ir=90A fixed short-circuit protection Ii=5...10 x In UL 489 SB (naval), 50 °C without connection

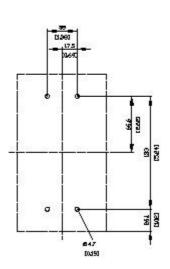
Model				
product brand name	SENTRON			
product designation	Molded-case circuit breaker			
product designation / according to UL file	MFAM			
Product version	System protection			
design of the load switch / acc. to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes			
design of the overcurrent release	TM230			
protection function of the overcurrent release	LI			
number of poles	3			
General technical data				
power loss [W] / maximum	24.6 W			
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	8.2 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			
<ul> <li>other measurement function</li> </ul>	No			
Current				
marking / acc. to UL 489 / 100%-rated breaker	No			
Max. rated operational current of the frame size	250 A			
Courant permanent assigné lu	90 A			
operational current				
• at 40 °C	90 A			
Switching capacity according to IEC 60947				
switching capacity class of the circuit breaker	М			
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				

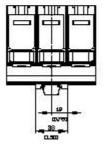
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breaking capacity current	0514		
• at 240 V	85 kA		
• at 480 V	35 kA		
• at 600 Y/347 V	18 kA		
Adjustable parameters			
Adjustable response value current / Ig min.	90 A		
Adjustable response value current / Ig min.	90 A		
Adjustable response value current / li min.	450 A		
Adjustable response value current / li max.	900 A		
Ground fault protection / tripping switchable / I2t=ON/OFF	No		
Mechanical Design			
height [in]	7.3 in		
Height	185 mm		
width [in]	4.1 in		
Width	105 mm		
depth [in]	3.3 in		
depth	83 mm		
Connections			
arrangement of electrical connectors / for main current circuit	Without connection		
type of electrical connection / for main current circuit	Without		
Auxiliary circuit			
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	-25 °C		
during operation / maximum	70 °C		
during storage / minimum	-40 °C		
<ul> <li>during storage / maximum</li> </ul>	80 °C		
Certificates			
reference code / acc. to IEC 81346-2	Q		
certificate of suitability / as approval for NAVAL (no	Yes		
combat vessels) / supplement SB			
General Product Approval			
	<u>Miscellaneous</u>	rnr	гпг
	/	EAC	EAC
CSA CCC UL			
EMC Shipping Approval	other		
	Miscellaneous		
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RCM ABS ABS			
Further information			
Information- and Downloadcenter (Catalogs, Brochures	s,)		

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=3VA5290-5EC31-1AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA5290-5EC31-1AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5290-5EC31-1AA0">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5290-5EC31-1AA0</a> Tender specifications http://www.siemens.com/specifications









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