## SIEMENS

## Data sheet

## 3VA5280-5EC31-1AA0

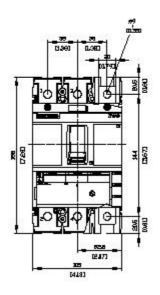


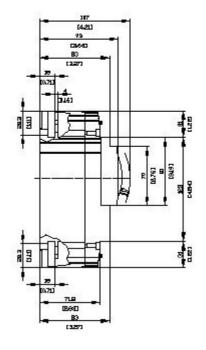
circuit breaker 3VA5 UL frame 250 breaking capacity class M 35kA @ 480V 3-pole, line protection TM230, FTAM, In=80A overload protection Ir=80A fixed short-circuit protection Ii=5...10 x In UL 489 SB (naval), 50 °C without connection

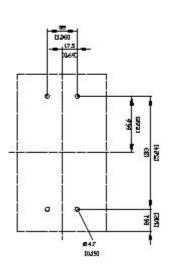
Model			
product brand name	SENTRON		
product designation	Molded-case circuit breaker		
product designation / according to UL file	MFAM		
Product version	System protection		
design of the load switch / acc. to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes		
design of the overcurrent release	TM230		
protection function of the overcurrent release	LI		
number of poles	3		
General technical data			
power loss [W] / maximum	20.4 W		
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	6.8 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	80 A		
operational current			
• at 40 °C	80 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			

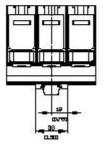
breaking capacity current					
• at 240 V	85 kA				
• at 480 V	35 kA				
• at 600 Y/347 V	18 kA				
Adjustable parameters					
Adjustable response value current / lg min.	80 A				
Adjustable response value current / lg min.	80 A				
Adjustable response value current / li min.	400 A				
Adjustable response value current / li max.	800 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					
<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				
<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					
(JU) (JU) (R)	Miscellaneous	EAC	EAC		
CSA CCC UL		LIIL	LIIL		
EMC Shipping Approval	other				
	<u>Miscellaneous</u>				
RCM ABS ABS					
Further information	,				
Information- and Downloadcenter (Catalogs, Brochures,)					

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=3VA5280-5EC31-1AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA5280-5EC31-1AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5280-5EC31-1AA0">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5280-5EC31-1AA0</a> Tender specifications http://www.siemens.com/specifications









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