## 3VA5210-6EC31-1AA0

**Data sheet** 



circuit breaker 3VA5 UL frame 250 breaking capacity class H 65kA @ 480V 3-pole, line protection TM230, FTAM, In=100A overload protection Ir=100A 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	HFAM	
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	Ц	
number of poles	3	
General technical data		
power loss [W] / maximum	31.6 W	
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	10.53 W	
mechanical service life (switching cycles) / typical	20 000	
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	100 A	
operational current		
• at 40 °C	100 A	
● at 45 °C	100 A	
• at 50 °C	95 A	
● at 55 °C	96 A	
• at 60 °C	93 A	
• at 65 °C	91 A	
● at 70 °C	88 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 S in the last chapter	ervice & Support
witching capacity according to UL 489	an and talk shapes.	
breaking capacity current		
• at 240 V	100 kA	
● at 480 V	65 kA	
• at 600 V	25 kA	
djustable parameters		
Adjustable response value current / lg min.	100 A	
Adjustable response value current / lg min.	100 A	
Adjustable response value current / li min.	500 A	
Adjustable response value current / li max.	1 000 A	
Ground fault protection / tripping switchable / I2t=ON/OFF	No	
lechanical 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	
onnections		
arrangement of electrical connectors / for main current circuit	Without connection	
type of electrical connection / for main current circuit	Without	
uxiliary circuit		
number of CO contacts / for auxiliary contacts	0	
ccessories		
product extension / optional / motor drive	Yes	
nvironmental 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	
during storage / maximum	80 °C	
ertificates		
reference code / acc. to IEC 81346-2	Q	
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Yes	







Miscellaneous





## **Shipping Approval**

other





Miscellaneous

## Further information

Information- and Downloadcenter (Catalogs, Brochures,...) <a href="http://www.siemens.com/lowvoltage/catalogs">http://www.siemens.com/lowvoltage/catalogs</a>

Industry Mall (Online ordering system)

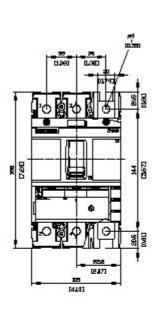
 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA5210-6EC31-1AA0}$ 

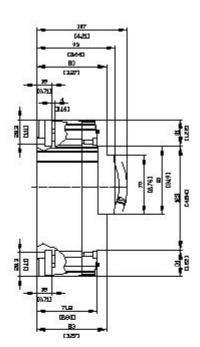
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) <a href="https://support.industry.siemens.com/cs/ww/en/ps/3VA5210-6EC31-1AA0">https://support.industry.siemens.com/cs/ww/en/ps/3VA5210-6EC31-1AA0</a>

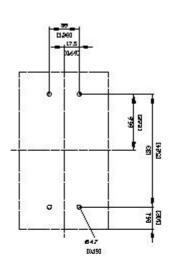
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5210-6EC31-1AA0">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5210-6EC31-1AA0</a>

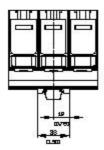
**Tender specifications** 

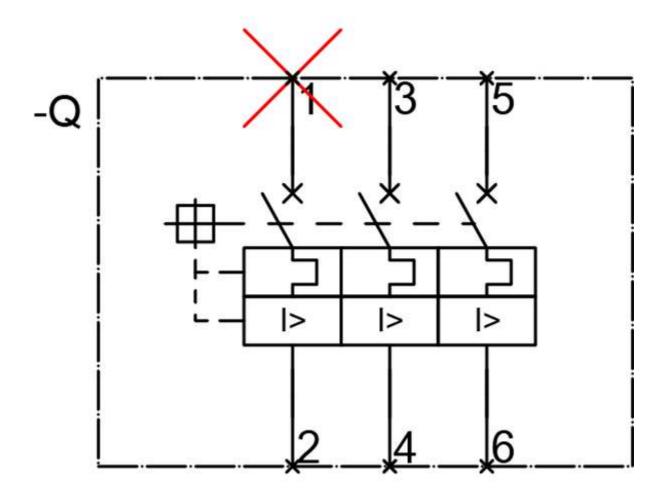
http://www.siemens.com/specifications

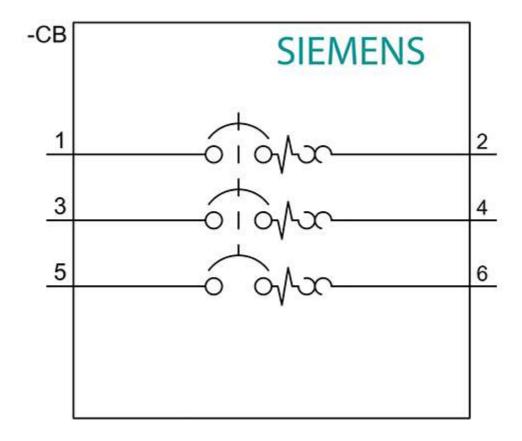












last modified: 12/20/2020 🖸