## SIEMENS

## Data sheet

## 3VA5120-6ED22-1AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class H 65kA @ 480 V 2-pole, line protection TM210, FTFM, In=20A overload protection Ir=20A fixed short-circuit protection Ii=15 x In UL489 SB (naval), 50 deg. cel. nut keeper kit on both sides

Model	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)	Yes	
design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type)	Yes	
design of the overcurrent release	TM210	
protection function of the overcurrent release	LI	
number of poles	2	
General technical data		
operating voltage / at AC / rated value	415 V	
power loss [W] / maximum	8.13 W	
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	4.07 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	0.669 kg	
Current		
marking / according to UL 489 / 100%-rated breaker	No	
operational current		
● at 40 °C	20 A	
● at 45 °C	20 A	
● at 50 °C	19 A	
● at 55 °C	19 A	
● at 60 °C	19 A	

● at 65 °C	18 A
• at 70 °C	18 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.	20 A
Adjustable response value current / lg min.	20 A
Ground fault protection / tripping switchable / I2t=ON/OFF	No
Mechanical Design	
height [in]	5.51 in
Height	140 mm
width [in]	2 in
Width	50.8 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	No
Environmental conditions	
protection class IP / on the front	IP40
ambient temperature	
<ul> <li>during operation / minimum</li> </ul>	-25 °C
during operation / maximum	70 °C
during storage / minimum	-40 °C
<ul> <li>during storage / maximum</li> </ul>	80 °C
Certificates	
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Yes
General Product Approval	EMC Marine / Shipping

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=3VA5120-6ED22-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5120-6ED22-1AA0

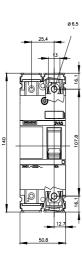
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5120-6ED22-1AA0

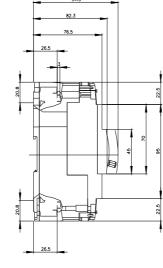
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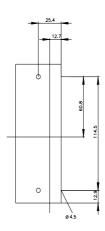
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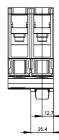
**Tender specifications** 

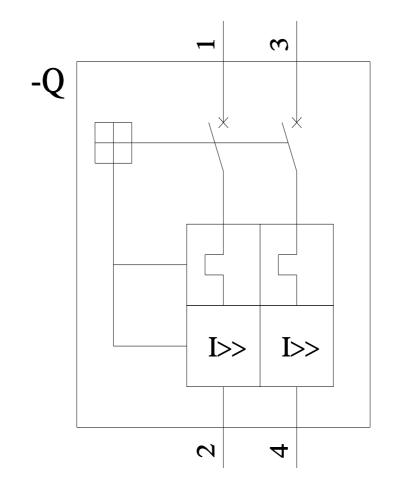
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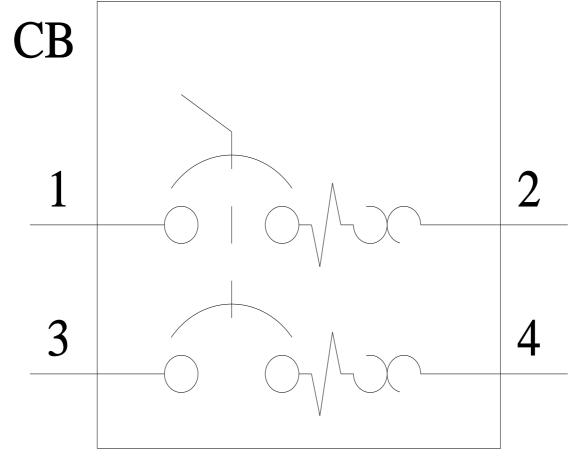












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