## 3VA5125-4ED11-1AA0

**Data sheet** 



circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 277V 1-pole, line protection TM210, FTFM, In=25A overload protection Ir=25A fixed short-circuit protection Ii=12 x In UL 489 SB (naval),  $50^\circ$  C without connection

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	SEAM
design of the product	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)	No
design of the overcurrent release	TM210
protection function of the overcurrent release	Ш
number of poles	1
General technical data	
operating voltage / at AC / rated value	415 V
power loss [W] / maximum	2.87 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	2.87 W
mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	8 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	4 000
electrical endurance (operating cycles) / at 480 V	8 000
electrical endurance (operating cycles) / at 600 V	4 000
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No
ground-fault monitoring version	without
product function	
• communication function	No
other measurement function	No
Net Weight	0.38 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	25 A
• at 45 °C	24 A
• at 50 °C	24 A
• at 55 °C	23 A
• at 60 °C	23 A
• at 65 °C	23 A
● at 70 °C	22 A

For switching power values in DC networks, see the 24A molded case clrouble between two chapter	switching capacity class of the circuit breaker	S
current breaking capacity  at 120 V  at 347 V  at 347 V  bulgstable parameters  adjustable response value setting current (Ir/) of the L-trip / with 12t characteristic v  minimum  meximum  maximum  maximum  maximum  minimum  min	design of short-circuit protection	
** at 120 V	Switching capacity according to UL 489	
• at 277 V • at 347 V	current breaking capacity	
* al 347 V   * a	• at 120 V	65 kA
Adjustable parameters	● at 277 V	25 kA
adjustable response value setting current (Ir) / of the L-trip / with 12t characteristic  • minimum • maximum adjustable response value delay time (tr) / for L-tripping / with 12t characteristic • minimum • maximum 1 s • maximum • minimum • during operation / minimum • during operation / minimum • during operation / maximum • during operation / maximu	● at 347 V	14 kA
adjustable response value setting current (Ir) / of the L-trip / with 12t characteristic  • minimum • maximum adjustable response value delay time (tr) / for L-tripping / with 12t characteristic • minimum • maximum 1 s • maximum • minimum • during operation / minimum • during operation / minimum • during operation / maximum • during operation / maximu	Adjustable parameters	
maximum adjustable response value delay time (tr) / for L-tripping / with 12t characteristic e minimum	adjustable response value setting current (Ir) / of the L-trip / with	ı
adjustable response value delay time (tr) / for L-tripping / with 12t characteristic	• minimum	25 A
characteristic  • minimum	maximum	25 A
Maximum   1 s   S		2t
adjustable response value setting current (ii) / for I-tripping	• minimum	1 s
• minimum • maximum • maximum  adjustable setting current (InN) / for N-tripping • minimum • maximum  adjustable current response value current / of the current- dependent overload release  product function / grounding protection  Acchanical Design  product component • undervoltage release • voltage trigger • irip indicator • irip indicator • irip indicator  height [in] • 5.51 in height • ind width • 25.4 mm  depth [in] • 3.01 in  depth • 76.5 mm  Connections  arrangement of electrical connectors / for main current circuit  without  widtliary circuit  number of CO contacts / for auxiliary contacts  product extension / optional / motor drive  invironmental conditions  protection class IP / on the front ambient temperature • during operation / minimum • during storage / minimum • during correlificates  certificate of suitability / as approval for NAVAL (no combat  yes  certificate of suitability / as approval for NAVAL (no combat  yes  certificate of suitability / as approval for NAVAL (no combat  yes  certificate of suitability / as approval for NAVAL (no combat  yes  certificate of suitability / as approval for NAVAL (no combat  yes  certificate of suitability / as approval for NAVAL (no combat  yes  certificate of suitability / as approval for NAVAL (no combat  yes  certificate of suitability / as approval for NAVAL (no combat  yes  certificate of suitability / as approval for NAVAL (no combat  yes  certificate of suitability / as approval for NAVAL (no combat  yes  certificate of suitability / as approval for NAVAL (no combat  yes  yes  yes  yes  yes  yes  yes  ye	• maximum	1 s
maximum 300 A adjustable setting current (InN) / for N-tripping  minimum 0 A maximum 0 A adjustable current response value current / of the current-dependent overload release  product function / grounding protection No  Inchanical Design  product component  undervoltage release No voltage trigger No trip indicator No height [in] 5.51 in height In] 140 mm width [in] 1 in width 25.4 mm depth [in] 3.01 in depth [in] 3.01 in depth [in] 3.01 in depth [in] 4.5.5 mm  Connections  arrangement of electrical connectors / for main current circuit Without connection ly bye of electrical connection / for main current circuit without connection / ground in order to the connection / for main current circuit without connection / ground in order to the con	adjustable response value setting current (li) / for I-tripping	
adjustable setting current (InN) / for N-tripping	• minimum	300 A
• minimum • maximum 0 A digustable current response value current / of the current- dependent overload release product function / grounding protection    Vechanical Design	• maximum	300 A
• minimum • maximum 0 A digustable current response value current / of the current- dependent overload release product function / grounding protection    Vechanical Design	adjustable setting current (InN) / for N-tripping	
adjustable current response value current / of the current- dependent overload release product function / grounding protection No  fechanical Design  product component  • undervoltage release • voltage trigger • trip indicator No  height [in] 5.51 in  height   140 mm  width [in]   1 in  depth   25.4 mm  depth [in]   3.01 in  depth   76.5 mm  connections  arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit  vixiliary circuit number of CO contacts / for auxiliary contacts endured temperature • during operation / maximum • during operation / maximum • during storage / minimum • during storage / minimum • during storage / minimum • during storage / maximum • during storage / maximum  corrifficate of suitability / as approval for NAVAL (no combat  Yes		0 A
adjustable current response value current / of the current- dependent overload release product function / grounding protection No  fechanical Design  product component  • undervoltage release • voltage trigger • trip indicator No  height [in] 5.51 in  height   140 mm  width [in]   1 in  depth   25.4 mm  depth [in]   3.01 in  depth   76.5 mm  connections  arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit  vixiliary circuit number of CO contacts / for auxiliary contacts endured temperature • during operation / maximum • during operation / maximum • during storage / minimum • during storage / minimum • during storage / minimum • during storage / maximum • during storage / maximum  corrifficate of suitability / as approval for NAVAL (no combat  Yes		
product component  • undervoltage release • voltage trigger • trip indicator  height [in]  height  in]  height  in]  height  in]  depth [in]  depth [i	adjustable current response value current / of the current-	
product component  • undervoltage release • voltage trigger • trip indicator No  • trip indicator No  height [in] 5.51 in  height width [in] 1 in  width depth 25.4 mm depth [in] depth 76.5 mm  Connections  arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit withilary circuit number of CO contacts / for auxiliary contacts  product extension / optional / motor drive No  ambient temperature • during operation / maximum • during storage / minimum • during storage / maximum • during storage /	product function / grounding protection	No
• undervoltage release • voltage trigger • trip indicator No height [in] 5.51 in height width   140 mm width [in] 1 in width 25.4 mm depth [in] 3.01 in depth   76.5 mm  Connections  arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit wulliary circuit number of CO contacts / for auxiliary contacts  product extension / optional / motor drive normental conditions  protection class IP / on the front ambient temperature • during operation / maximum • during operation / maximum • during storage / minimum • during storage / maximum • during stora	Mechanical Design	
voltage trigger	product component	
voltage trigger	•	No
• trip indicator • trip indicator  height [in]  height  140 mm  width [in]  1 in  width  depth [in]  3.01 in  depth [in]  3.01 in  depth [in]  depth [	-	No
height [in] 5.51 in height 140 mm  width [in] 1 in  width 25.4 mm  depth [in] 3.01 in  depth [in] 3.01 in  depth 76.5 mm  connections  arrangement of electrical connectors / for main current circuit without connection type of electrical connection / for main current circuit without  uuxiliary circuit  number of CO contacts / for auxiliary contacts 0  consections  product extension / optional / motor drive No  invironmental conditions  protection class IP / on the front IP40  ambient temperature		No
height 140 mm  width [in] 1 in  width 25.4 mm  depth [in] 3.01 in  76.5 mm  Connections  arrangement of electrical connectors / for main current circuit Without connection  type of electrical connection / for main current circuit Without  uxxiliary circuit  number of CO contacts / for auxiliary contacts 0  cocessories  product extension / optional / motor drive No  environmental conditions  protection class IP / on the front IP40  ambient temperature  • during operation / minimum -25 °C  • during operation / maximum -40 °C  • during storage / minimum -40 °C  • during storage / maximum -40 °C  • during storage / maximum -40 °C  • during storage / maximum -40 °C  • certificates  certificate of suitability / as approval for NAVAL (no combat Yes		
width [in] 1 in  width 25.4 mm  depth [in] 3.01 in  76.5 mm  Connections  arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit Without  wxxiliary circuit  number of CO contacts / for auxiliary contacts 0  coessories  product extension / optional / motor drive No  environmental conditions  protection class IP / on the front IP40  ambient temperature  • during operation / minimum • during operation / maximum • during storage / minimum • during storage / minimum • during storage / maximum • Ves	• •	
width 25.4 mm  depth [in] 3.01 in  depth 76.5 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 No  invironmental 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  certificates  certificate of suitability / as approval for NAVAL (no combat Yes	-	
depth [in] 3.01 in  depth 76.5 mm  Connections  arrangement of electrical connectors / for main current circuit Without connection  type of electrical connection / for main current circuit Without  uuxiliary circuit  number of CO contacts / for auxiliary contacts  product extension / optional / motor drive  norticonnental conditions  protection class IP / on the front IP40  ambient temperature  • during operation / maximum  • during operation / maximum  • during storage / minimum  • during storage / minimum  • during storage / maximum  • To °C		
depth 76.5 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 No  anxironmental conditions  protection class IP / on the front IP40  ambient temperature  • during operation / maximum -25 °C  • during operation / maximum -40 °C  • during storage / minimum -40 °C  • during storage / maximum 80 °C  Certificates  certificate of suitability / as approval for NAVAL (no combat Yes		
arrangement of electrical connectors / for main current circuit  type of electrical connection / for main current circuit  Auxiliary circuit  number of CO contacts / for auxiliary contacts  product extension / optional / motor drive  No  Environmental conditions  protection class IP / on the front  ambient temperature  o during operation / maximum  during operation / maximum  oduring storage / minimum  during storage / minimum  oduring storage / maximum  oduring storage / maximum  entire time to the storage / maximum  oduring st		
arrangement of electrical connectors / for main current circuit  type of electrical connection / for main current circuit  Without  Withou	•	76.5 MM
type of electrical connection / for main current circuit  Auxiliary circuit  number of CO contacts / for auxiliary contacts  product extension / optional / motor drive  No  Environmental conditions  protection class IP / on the front  ambient temperature  oluring operation / minimum  during operation / maximum  oluring storage / minimum  oluring storage / maximum  oluri		
number of CO contacts / for auxiliary contacts  product extension / optional / motor drive  protection class IP / on the front  ambient temperature  during operation / maximum  during storage / minimum  during storage / maximum  during storage / maximum  eduring storage / maximum  eduring storage / maximum  storage		
number of CO contacts / for auxiliary contacts  Accessories  product extension / optional / motor drive  No  Environmental conditions  protection class IP / on the front  ambient temperature  • during operation / minimum  -25 °C  • during operation / maximum  during storage / minimum  -40 °C  • during storage / maximum  80 °C  Environmental conditions  IP40  Accessories  Protection class IP / on the front  IP40  -25 °C  -25 °C  -40 °C	**	Without
product extension / optional / motor drive  No  Invironmental conditions  protection class IP / on the front  ambient temperature  • during operation / minimum  • during operation / maximum  • during storage / minimum  • during storage / maximum  • during storage / maximum  • cap °C  IP40  IP40  • during storage / maximum  For °C  For tifficates  Certificate of suitability / as approval for NAVAL (no combat)  For the form of the form		
product extension / optional / motor drive  No  Invironmental conditions  protection class IP / on the front  ambient temperature  • during operation / minimum  • during operation / maximum  • during storage / minimum  • during storage / maximum  • during storage / maximum  • certificates  certificate of suitability / as approval for NAVAL (no combat  No  IP40  -25 °C  -40 °C  -4	·	0
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  certificates  certificate of suitability / as approval for NAVAL (no combat Yes	ccessories	
protection class IP / on the front  ambient temperature  • during operation / minimum  • during operation / maximum  • during storage / minimum  • during storage / maximum  • during storage / maximum  • curificates  certificate of suitability / as approval for NAVAL (no combat  IP40  -25 °C  -25 °C  -40 °C	<u> </u>	No
ambient temperature  • during operation / minimum  • during operation / maximum  70 °C  • during storage / minimum  • during storage / maximum  80 °C  Certificates  certificate of suitability / as approval for NAVAL (no combat  Yes	invironmental conditions	
<ul> <li>during operation / minimum</li> <li>during operation / maximum</li> <li>0 °C</li> <li>during storage / minimum</li> <li>40 °C</li> <li>during storage / maximum</li> <li>Certificates</li> <li>certificate of suitability / as approval for NAVAL (no combat</li> </ul> Yes	protection class IP / on the front	IP40
<ul> <li>during operation / maximum</li> <li>during storage / minimum</li> <li>during storage / maximum</li> <li>80 °C</li> </ul> Certificates Certificate of suitability / as approval for NAVAL (no combat Yes	ambient temperature	
• during storage / minimum     • during storage / maximum     80 °C  Certificates  certificate of suitability / as approval for NAVAL (no combat  Yes	during operation / minimum	-25 °C
during storage / maximum     80 °C  Certificates  certificate of suitability / as approval for NAVAL (no combat  Yes		70 °C
• during storage / maximum 80 °C  Certificates  certificate of suitability / as approval for NAVAL (no combat Yes	during operation / maximum	-40 °C
Certificates  certificate of suitability / as approval for NAVAL (no combat  Yes		
certificate of suitability / as approval for NAVAL (no combat	during storage / minimum	80 °C
veoseis// supplement ob	during storage / minimum     during storage / maximum	80 °C



Confirmation







Miscellaneous

General Product Approval

EMC

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping









Type Test Certificates/Test Report



Marine / Shipping

other









Miscellaneous

Confirmation

other

**Miscellaneous** 

## Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3VA5125-4ED11-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5125-4ED11-1AA0

 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ ...)$ 

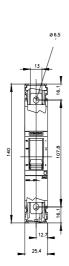
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5125-4ED11-1AA0

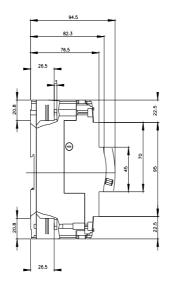
**CAx-Online-Generator** 

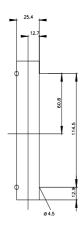
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Tender specifications

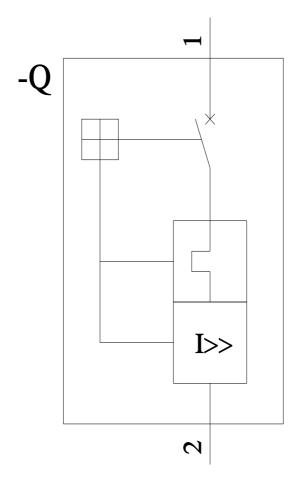
http://www.siemens.com/specifications

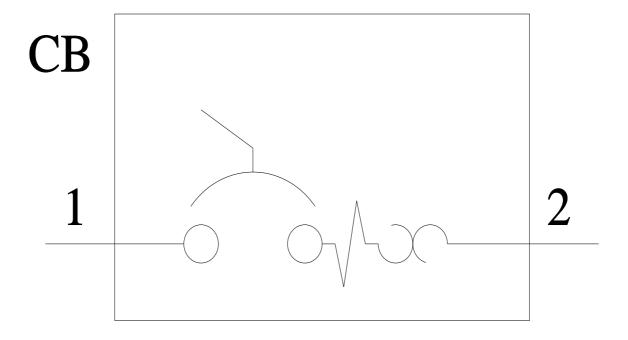












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