



circuit breaker 3VA5 UL Frame 125 breaking capacity class S 25 kA @ 480 V 2-pole, line protection TM210, FTFM,  $I_n=15$  A overload protection  $I_r=15$  A permanently set short-circuit protection  $I_i=20 \times I_n$  without connection

Model	
product brand name	SETRON
product designation	Molded-case circuit breaker
product designation / according to UL file	SEAS
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)	Yes
design of the overcurrent release	TM210
protection function of the overcurrent release	LI
number of poles	2
General technical data	
insulation voltage / rated value	500 V
operating voltage / at DC / rated value	250 V
operating voltage / at AC / rated value	415 V
power loss [W] / maximum	6.5 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	3.25 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/retrofitable / short-circuit and overload proof	No
product function	
• communication function	No
• other measurement function	No
Net Weight	645 g
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	15 A
• at 45 °C	15 A
• at 50 °C	14 A
• at 55 °C	14 A
• at 60 °C	14 A

<ul style="list-style-type: none"> <li>• at 65 °C</li> </ul>	14 A
<ul style="list-style-type: none"> <li>• at 70 °C</li> </ul>	14 A
<b>Switching capacity according to IEC 60947</b>	
switching capacity class of the circuit breaker	S
maximum short-circuit current breaking capacity (I <sub>cu</sub> )	
<ul style="list-style-type: none"> <li>• at 240 V</li> </ul>	55 kA
<ul style="list-style-type: none"> <li>• at 415 V</li> </ul>	36 kA
operating short-circuit current breaking capacity (I <sub>cs</sub> )	
<ul style="list-style-type: none"> <li>• at 240 V</li> </ul>	55 kA
<ul style="list-style-type: none"> <li>• at 415 V</li> </ul>	36 kA
short-circuit current making capacity (I <sub>cm</sub> )	
<ul style="list-style-type: none"> <li>• at 240 V</li> </ul>	121 kA
<ul style="list-style-type: none"> <li>• at 415 V</li> </ul>	75.5 kA
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
<b>Switching capacity according to UL 489</b>	
current breaking capacity	
<ul style="list-style-type: none"> <li>• at 240 V</li> </ul>	65 kA
<ul style="list-style-type: none"> <li>• at 480 V</li> </ul>	25 kA
<ul style="list-style-type: none"> <li>• at 600 Y/347 V</li> </ul>	14 kA
<b>Adjustable parameters</b>	
adjustable response value setting current (I <sub>r</sub> ) / of the L-trip / with I <sub>2t</sub> characteristic	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	15 A
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	15 A
adjustable response value delay time (t <sub>r</sub> ) / for L-tripping / with I <sub>2t</sub> characteristic	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	1 s
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	1 s
adjustable response value setting current (I <sub>i</sub> ) / for I-tripping	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	300 A
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	300 A
adjustable setting current (I <sub>nN</sub> ) / for N-tripping	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	0 A
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	0 A
product function / grounding protection	No
<b>Mechanical Design</b>	
product component	
<ul style="list-style-type: none"> <li>• undervoltage release</li> </ul>	No
<ul style="list-style-type: none"> <li>• voltage trigger</li> </ul>	No
<ul style="list-style-type: none"> <li>• trip indicator</li> </ul>	No
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
<b>Connections</b>	
arrangement of electrical connectors / for main current circuit	Without connection
type of electrical connection / for main current circuit	Without
<b>Auxiliary circuit</b>	
number of CO contacts / for auxiliary contacts	0
<b>Accessories</b>	
product extension / optional / motor drive	No
<b>Environmental conditions</b>	
protection class IP / on the front	IP40
ambient temperature	
<ul style="list-style-type: none"> <li>• during operation / minimum</li> </ul>	-25 °C
<ul style="list-style-type: none"> <li>• during operation / maximum</li> </ul>	70 °C

- during storage / minimum
- during storage / maximum

-40 °C

80 °C

reference code / according to IEC 81346-2

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### Approvals / Certificates

#### General Product Approval



[Miscellaneous](#)



[Miscellaneous](#)



#### General Product Approval

EMV



[Confirmation](#)



#### Test Certificates

#### Maritime application

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



#### Maritime application

#### other

#### Environment



[Miscellaneous](#)

[Confirmation](#)

[Environmental Confirmations](#)

### Further information

Information on the packaging

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

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA5195-4ED21-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA5195-4ED21-0AA0>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA5195-4ED21-0AA0](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5195-4ED21-0AA0)

CAX-Online-Generator

<https://www.siemens.com/cax>

Tender specifications

<https://www.siemens.com/specifications>

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)



**CB**



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