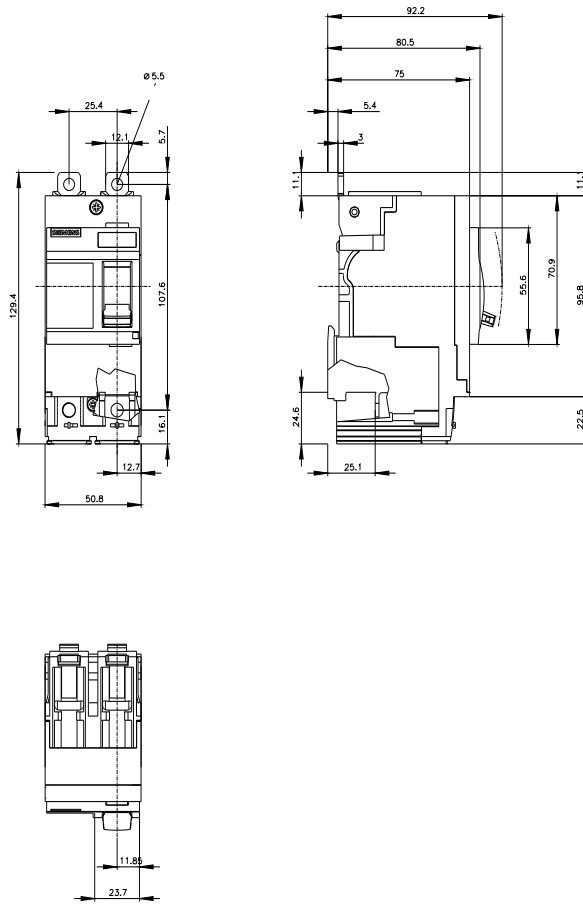




circuit breaker 3VA4 UL Frame 125 breaking capacity class M 35 kA @ 480 V 2-pole, line protection TM210, FTFM,  $I_n=50$  A overload protection  $I_r=50$  A permanently set short-circuit protection  $I_i=10 \times I_n$

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	MEAB
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	LI
number of poles	2
General technical data	
operating voltage / at AC / rated value	480 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	15 000
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	0.514 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	50 A
• at 45 °C	49 A
• at 50 °C	47 A
• at 55 °C	46 A
• at 60 °C	44 A
• at 65 °C	43 A
• at 70 °C	41 A
Switching capacity according to IEC 60947	

switching capacity class of the circuit breaker	M
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>	85 kA
<ul style="list-style-type: none"> <li>at 480 Y/277 V</li> </ul>	35 kA
<ul style="list-style-type: none"> <li>at 480 V</li> </ul>	35 kA
<ul style="list-style-type: none"> <li>at 600 Y/347 V</li> </ul>	18 kA
<b>Adjustable parameters</b>	
adjustable response value delay time (tr) / for L-tripping / with I2t 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
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]	5.09 in
height	129.4 mm
width [in]	2 in
type of connectable conductor cross-sections / of the round conductor terminal / stranded	1 x (8 AWG - 3/0)
width	50.8 mm
depth [in]	2.96 in
depth	75.1 mm
<b>Connections</b>	
arrangement of electrical connectors / for main current circuit	output side: circular conductor connection
type of electrical connection / for main current circuit	Infeed side: Low tab
design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)	Tin
<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
<ul style="list-style-type: none"> <li>during storage / minimum</li> </ul>	-40 °C
<ul style="list-style-type: none"> <li>during storage / maximum</li> </ul>	80 °C
<b>Further information</b>	
<b>Information on the packaging</b> <a href="https://support.industry.siemens.com/cs/ww/en/view/109813875">https://support.industry.siemens.com/cs/ww/en/view/109813875</a>	
<b>Information for data generation and storage</b> <a href="https://support.industry.siemens.com/cs/ww/en/view/109995012">https://support.industry.siemens.com/cs/ww/en/view/109995012</a>	
<b>Information- and Downloadcenter (Catalogs, Brochures,...)</b> <a href="https://www.siemens.com/lowvoltage/catalogs">https://www.siemens.com/lowvoltage/catalogs</a>	
<b>Industry Mall (Online ordering system)</b> <a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA4150-5ED24-3AA0">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA4150-5ED24-3AA0</a>	
<b>Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)</b> <a href="https://support.industry.siemens.com/cs/ww/en/ps/3VA4150-5ED24-3AA0">https://support.industry.siemens.com/cs/ww/en/ps/3VA4150-5ED24-3AA0</a>	
<b>Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)</b> <a href="https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA4150-5ED24-3AA0">https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA4150-5ED24-3AA0</a>	
<b>CAX-Online-Generator</b> <a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>	
<b>Tender specifications</b> <a href="https://www.siemens.com/specifications">https://www.siemens.com/specifications</a>	
<b>Characteristic curves</b> <a haupt"&gt;&lt;="" href="https://curves.simaris.siemens.com/curves/&lt;mmp_prod_noCOMP=" mmp_prod_no&gt;"="">https://curves.simaris.siemens.com/curves/&lt;mmp_prod_noCOMP="HAUPT"&gt;&lt;/mmp_prod_no&gt;</a>	



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