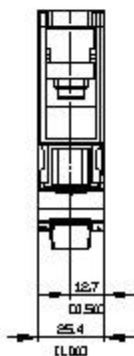


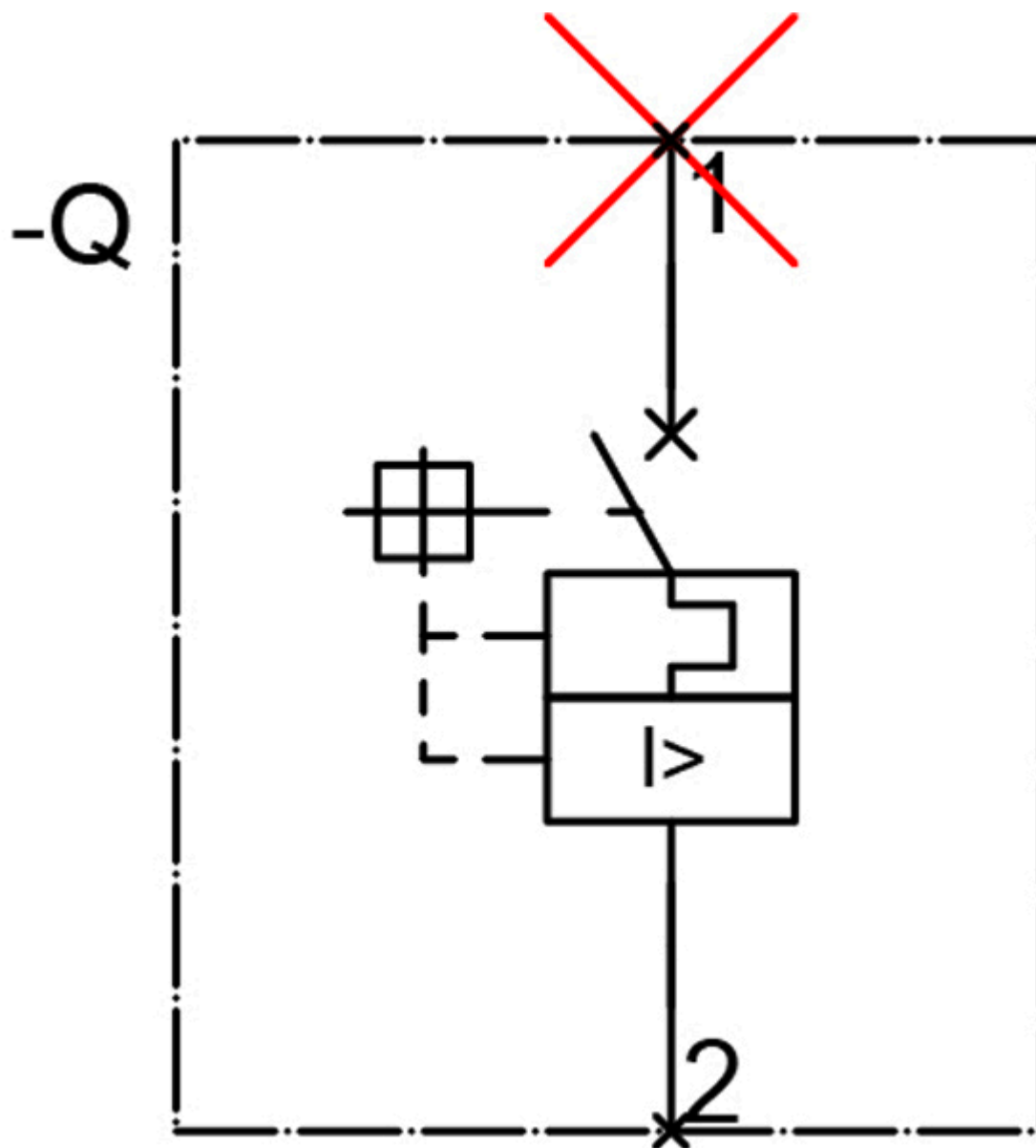


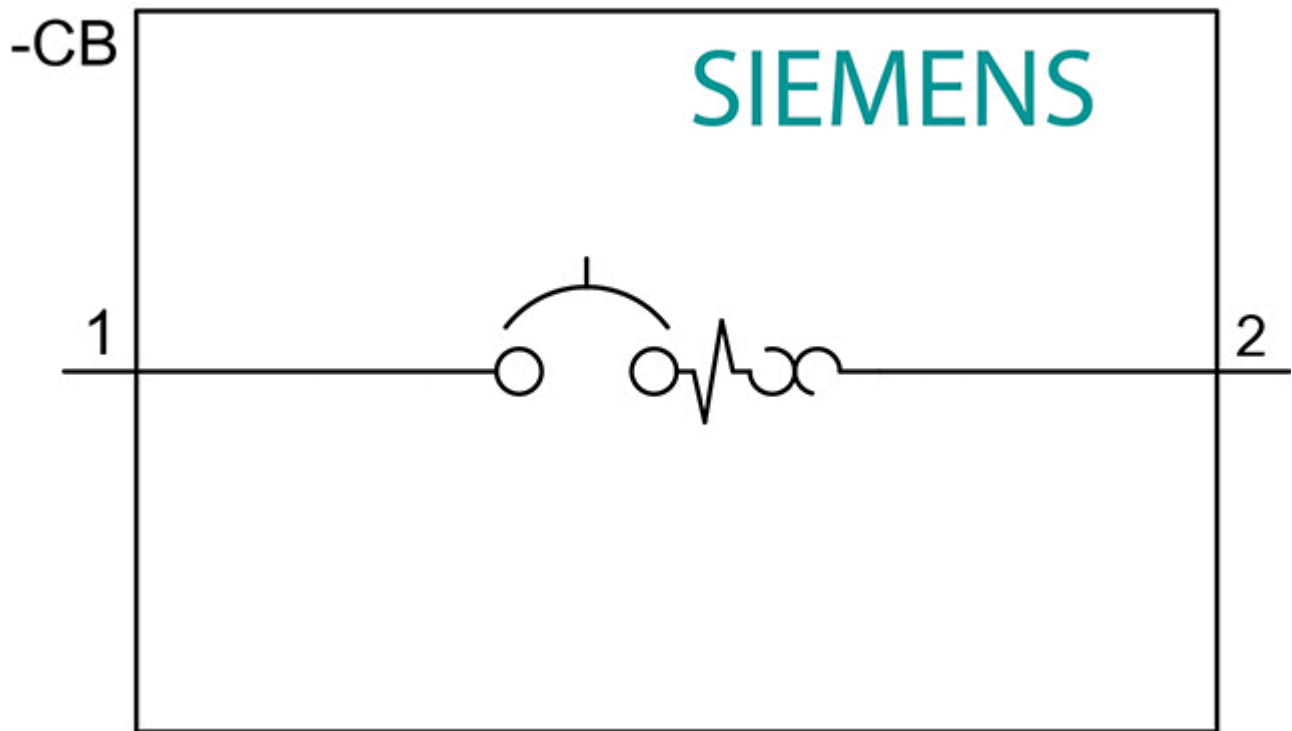
circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 277 V 1-pole, line protection TM210, FTFM, In=50A overload protection Ir=50A fixed short-circuit protection li=10 x In nut keeper kit on both sides

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	SEAS
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	TM210
protection function of the overcurrent release	LI
number of poles	1
General technical data	
Tension assignée d'isolement Ui	500 V
Max. rated operational voltage Ue with DC	125 V
power loss [W] / maximum	3.7 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	3.7 W
mechanical service life (switching cycles) / typical	15 000
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/retrofitable	No
ground-fault monitoring version	Without
product function	
• communication function	No
• other measurement function	No
Current	
marking / acc. to UL 489 / 100%-rated breaker	No
Max. rated operational current of the frame size	125 A
Courant permanent assigné Iu	50 A
operational current	
• at 45 °C	49.1 A
• at 50 °C	48.3 A
• at 55 °C	47.5 A
• at 60 °C	46.7 A
• at 65 °C	46 A

• at 70 °C	45.2 A
<b>Switching capacity according to IEC 60947</b>	
switching capacity class of the circuit breaker	S
breaking capacity maximum short-circuit current (Icu)	
• at 240 V	25 kA
• at 415 V	5 kA
breaking capacity operating short-circuit current (Ics)	
• at 240 V	25 kA
• at 415 V	5 kA
short-circuit current making capacity (Icm)	
• at 240 V	52.5 kA
• at 415 V	7.5 kA
<b>Switching capacity according to UL 489</b>	
breaking capacity current	
• at 120 V	65 kA
• at 277 V	25 kA
• at 347 V	14 kA
<b>Adjustable parameters</b>	
Adjustable response value current / Ig min.	35 A
Adjustable response value current / Ig min.	50 A
Adjustable response value current / Ii min.	500 A
Adjustable response value current / Ii max.	500 A
Ground fault protection / tripping switchable / I2t=ON/OFF	No
<b>Mechanical Design</b>	
height [in]	5.5 in
Height	140 mm
width [in]	1 in
Width	25.4 mm
depth [in]	3 in
depth	76.5 mm
<b>Connections</b>	
arrangement of electrical connectors / for main current circuit	Front connection
<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	
• during operation / minimum	-25 °C
• during operation / maximum	70 °C
• during storage / minimum	-40 °C
• during storage / maximum	80 °C
<b>Certificates</b>	
reference code / acc. to IEC 81346-2	Q
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	No
<b>Further information</b>	
<b>Information- and Downloadcenter (Catalogs, Brochures,...)</b>	
<a href="http://www.siemens.com/lowvoltage/catalogs">http://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=3VA5150-4ED12-0AA0">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA5150-4ED12-0AA0</a>	
<b>Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)</b>	
<a href="https://support.industry.siemens.com/cs/ww/en/ps/3VA5150-4ED12-0AA0">https://support.industry.siemens.com/cs/ww/en/ps/3VA5150-4ED12-0AA0</a>	
<b>Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)</b>	
<a href="http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5150-4ED12-0AA0">http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5150-4ED12-0AA0</a>	
<b>CAX-Online-Generator</b>	
<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>	







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