



circuit breaker 3VA5 UL Frame 125 breaking capacity class S 25 kA @ 277 V 1-pole, line protection TM210, FTFM, In=30 A overload protection Ir=30 A permanently set short-circuit protection Ii=10 x In cable connection on two sides

Model	
product brand name	SENTRON
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)	No
design of the overcurrent release	TM210
protection function of the overcurrent release	LI
number of poles	1
General technical data	
insulation voltage / rated value	500 V
operating voltage / at DC / rated value	125 V
operating voltage / at AC / rated value	415 V
power loss [W] / maximum	3.2 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	3.2 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
product function	
• communication function	No
• other measurement function	No
Net Weight	0.401 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	30 A
• at 45 °C	29 A
• at 50 °C	29 A
• at 55 °C	28 A
• at 60 °C	28 A
• at 65 °C	28 A
• at 70 °C	27 A

Switching capacity according to IEC 60947

switching capacity class of the circuit breaker	S
maximum short-circuit current breaking capacity (I _{cu}) • at 240 V • at 415 V	25 kA 5 kA
operating short-circuit current breaking capacity (I _{cs}) • at 240 V • at 415 V	25 kA 5 kA
short-circuit current making capacity (I _{cm}) • at 240 V • at 415 V	52.5 kA 7.5 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

Switching capacity according to UL 489

current breaking capacity • at 120 V • at 277 V • at 347 V	65 kA 25 kA 14 kA
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Adjustable parameters

adjustable response value setting current (I _r) / of the L-trip / with I _{2t} characteristic • minimum • maximum	30 A 30 A
adjustable response value delay time (t _r) / for L-tripping / with I _{2t} characteristic • minimum • maximum	1 s 1 s
adjustable response value setting current (I _i) / for I-tripping • minimum • maximum	300 A 300 A
adjustable setting current (I _{nN}) / for N-tripping • minimum • maximum	0 A 0 A
product function / grounding protection	No

Mechanical Design

product component • undervoltage release • voltage trigger • trip indicator	No No No
height [in]	5.51 in
height	140 mm
width [in]	1 in
type of connectable conductor cross-sections / of the round conductor terminal / stranded	1 x (14 AWG - 8 AWG)
width	25.4 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	circular conductor terminal on both sides

Auxiliary circuit

number of CO contacts / for auxiliary contacts	0
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Accessories

product extension / optional / motor drive	No
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Environmental conditions

protection class IP / on the front	IP40
ambient temperature • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum	-25 °C 70 °C -40 °C 80 °C

Approvals / Certificates

General Product Approval



General Product Approval

EMV

Test Certificates


[Miscellaneous](#)

[Type Test Certificates/Test Report](#)

Test Certificates

Maritime application

[Special Test Certificate](#)


other

Environment

[Confirmation](#)
[Miscellaneous](#)
[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,...)

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA5130-4ED16-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA5130-4ED16-0AA0>

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

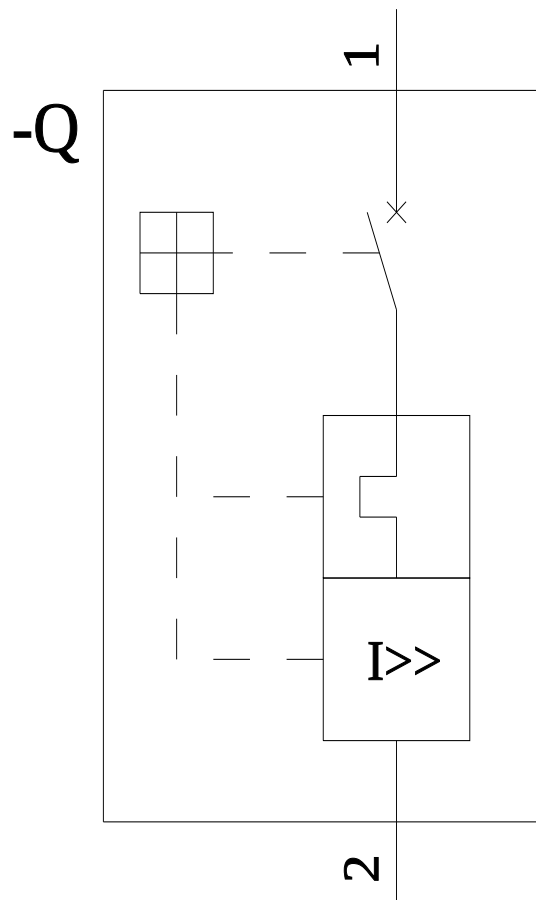
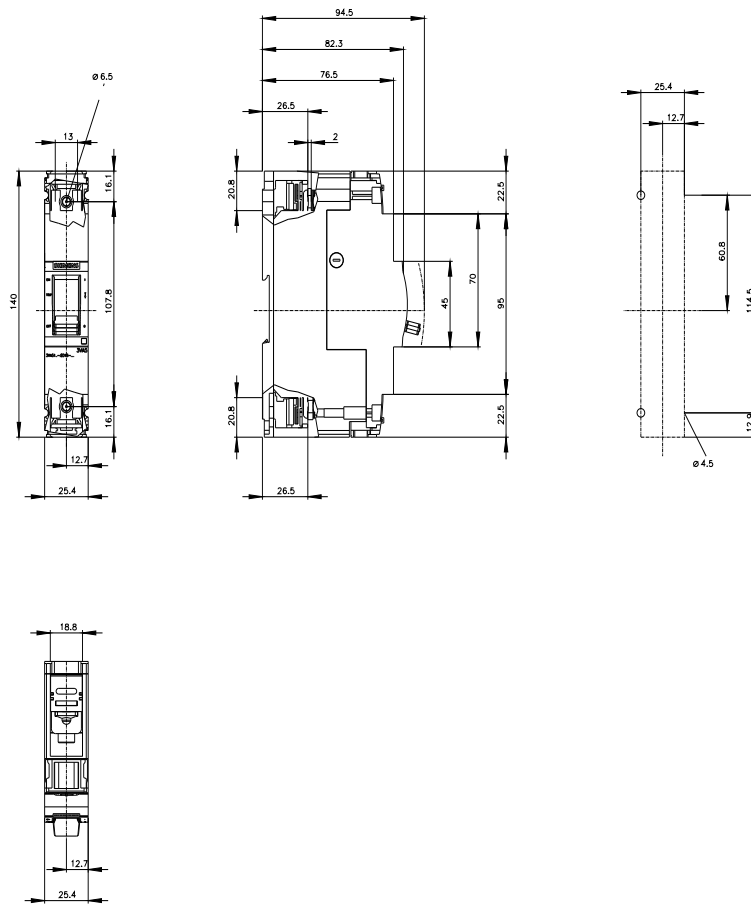
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5130-4ED16-0AA0

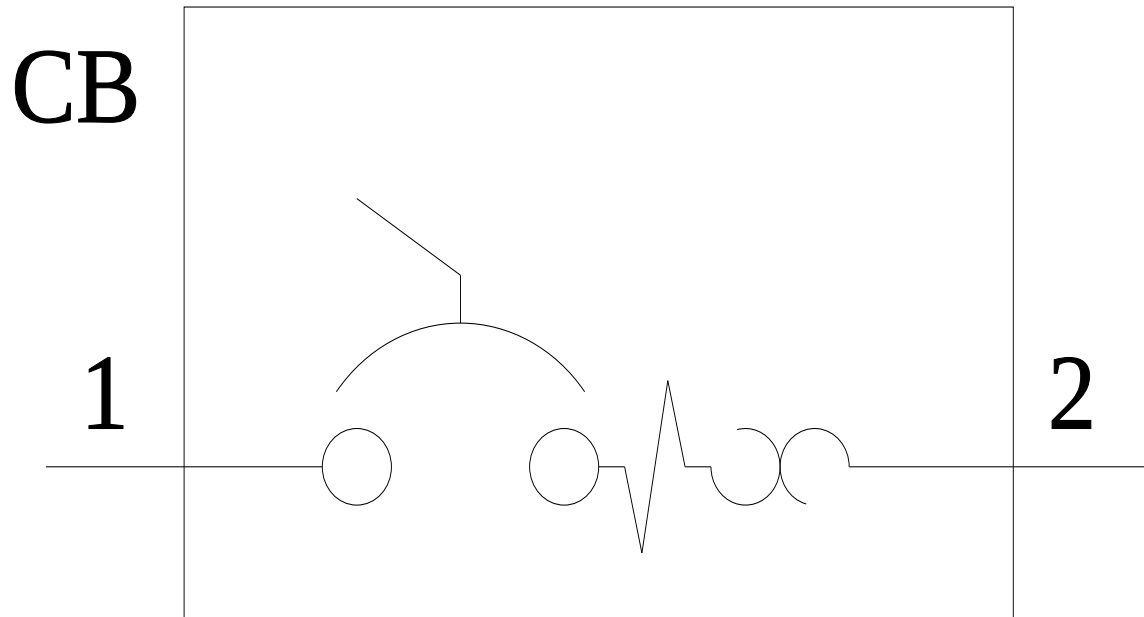
CAx-Online-Generator

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

Tender specifications

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





last modified:

4/4/2025 

