







circuit breaker 3VA4 UL frame 125 breaking capacity class H 65kA @ 277 V 1-pole, line protection TM210, FTFM, In=40A overload protection Ir=40A fixed short-circuit protection li=10 x In clamp connection

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HEAB
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)	No
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	
operating voltage / at AC / rated value	415 V
power loss [W] / maximum	3.5 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	3.5 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	0.426 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	40 A
• at 45 °C	39 A
• at 50 °C	39 A
• at 55 °C	38 A
• at 60 °C	37 A
• at 65 °C	36 A
• at 70 °C	36 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	H
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		150 kA			
• at 277 V		65 kA			
• at 347 V		25 kA			
Adjustable parameters					
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic					
• minimum		1 s			
• maximum		1 s			
product function / grounding protection		No			
Mechanical Design					
product component					
• undervoltage release		No			
• voltage trigger		No			
• trip indicator		No			
height [in]		5.09 in			
height		129.4 mm			
width [in]		2 in			
width		50.8 mm			
depth [in]		2.96 in			
depth		75.1 mm			
Connections					
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			
Auxiliary circuit					
number of CO contacts / for auxiliary contacts		0			
Accessories					
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		70 °C			
• during storage / minimum		-40 °C			
• during storage / maximum		80 °C			
Certificates					
General Product Approval		EMC	other		
		Miscellaneous			Confirmation
other					

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=3VA4140-6ED54-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA4140-6ED54-0AA0>

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

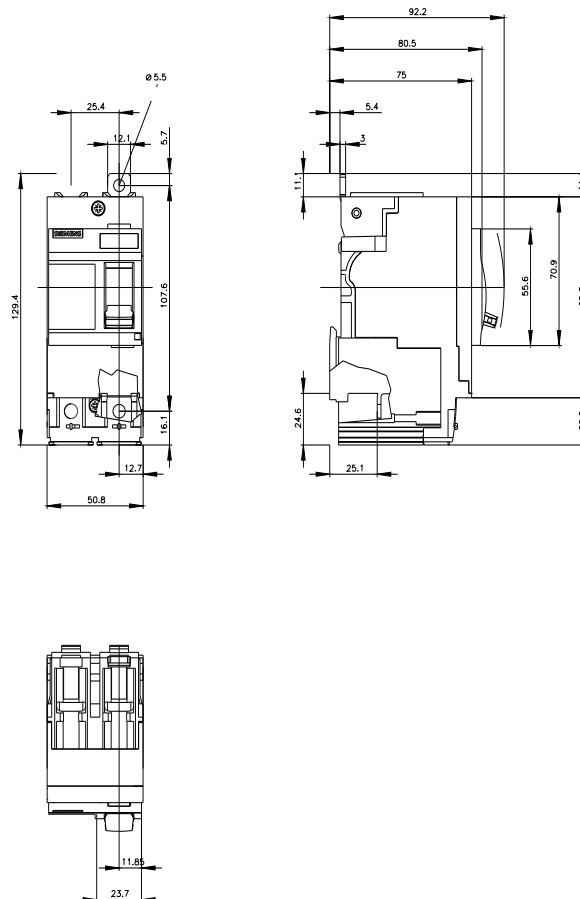
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA4140-6ED54-0AA0

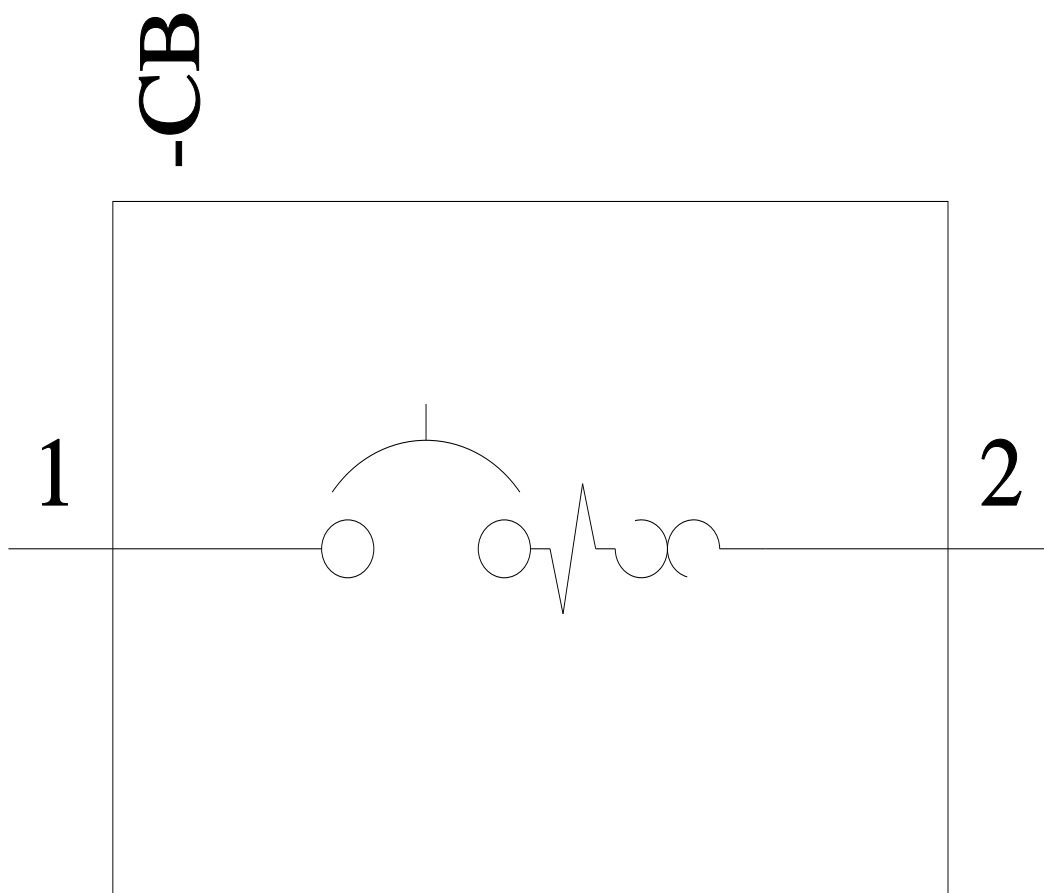
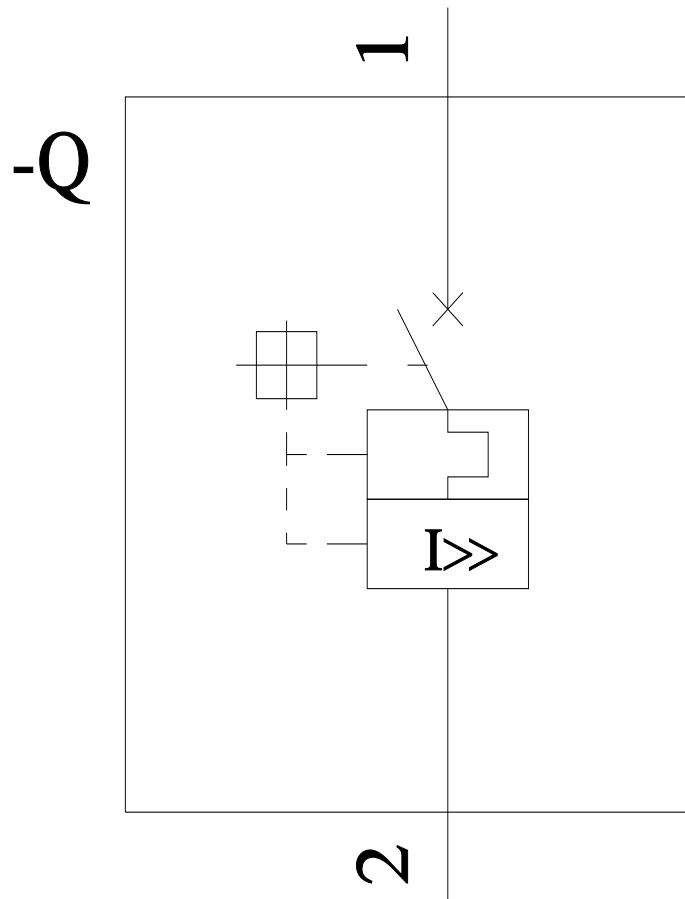
CAX-Online-Generator

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

Tender specifications

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





Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens:

[3VA41406ED540AA0](#)