



circuit breaker 3VA5 UL frame 125 breaking capacity class H 65kA @ 480V
3-pole, line protection TM210, FTFM, $I_n=15A$ overload protection $I_r=15A$
fixed short-circuit protection $I_i=20 \times I_n$ without connection

Model

product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HEAS
Product version	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	3

General technical data

insulation voltage / rated value	800 V
Max. rated operational voltage U_e with DC	500 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	10.6 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	3.53 W
mechanical service life (operating cycles) / typical	20 000
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 (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
ground-fault monitoring version	without
product function	
• communication function	No
• other measurement function	No
Net Weight	0.963 kg

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 • at 65 °C • at 70 °C	14 A 14 A 14 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	H
maximum short-circuit current breaking capacity (I _{cu})	
• at 240 V • at 415 V • at 690 V	150 kA 70 kA 10 kA
operating short-circuit current breaking capacity (I _{cs})	
• at 240 V • at 415 V • at 690 V	150 kA 70 kA 5 kA
short-circuit current making capacity (I _{cm})	
• at 240 V • at 415 V • at 690 V	330 kA 154 kA 17 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 240 V • at 480 V • at 600 Y/347 V	150 kA 65 kA 25 kA
Adjustable parameters	
adjustable response value setting current (I _r) / of the L-trip / with I _{2t} characteristic / minimum	15 A
adjustable response value setting current (I _r) / of the L-trip / with I _{2t} characteristic / maximum	15 A
adjustable response value delay time (t _r) / for L-tripping / with I _{2t} characteristic / minimum	1 s
adjustable response value delay time (t _r) / for L-tripping / with I _{2t} characteristic / maximum	1 s
adjustable response value setting current (I _i) / for I-tripping / minimum	300 A
adjustable response value setting current (I _i) / for I-tripping / maximum	300 A
adjustable absolute value setting current (I _{nN}) / for N-tripping / minimum	0 A
adjustable absolute value setting current (I _{nN}) / for N-tripping / maximum	0 A
adjustable current response value current / of the current-dependent overload release / initial value	15 A
adjustable current response value current / of the current-dependent overload release / full-scale value	15 A
Ground fault protection / tripping switchable / I _{2t} =ON/OFF	No
Mechanical Design	
product component	
• undervoltage release • voltage trigger • trip indicator	No No No
height [in]	5.51 in
Height	140 mm
width [in]	3 in
Width	76.2 mm
depth [in]	3.01 in
depth	76.5 mm
Connections	
arrangement of electrical connectors / for main current circuit	Without connection
type of electrical connection / for main current circuit	Without
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0

Accessories	
product extension / optional / motor drive	Yes
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	
reference code / according to IEC 81346-2	Q
General Product Approval	



[Confirmation](#)

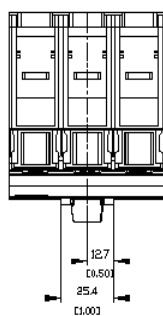
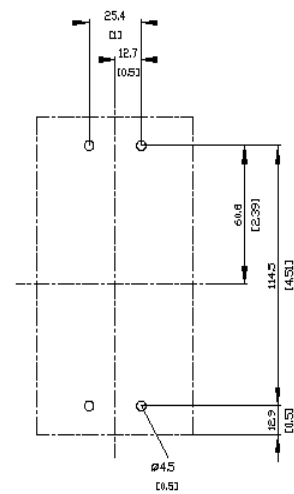
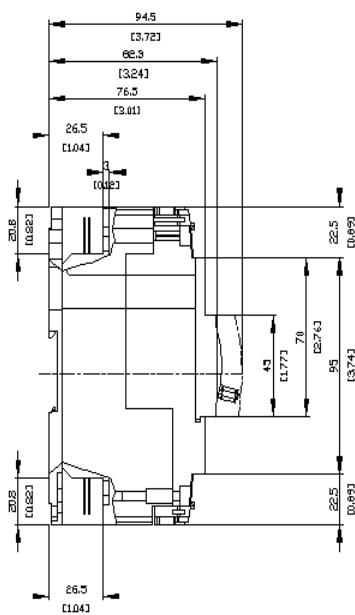
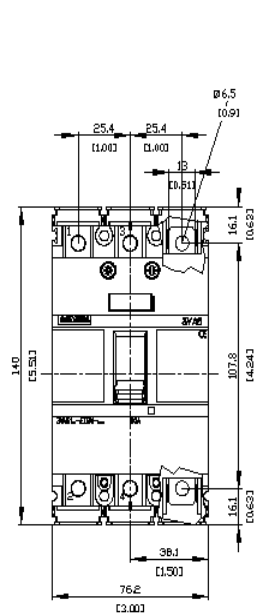


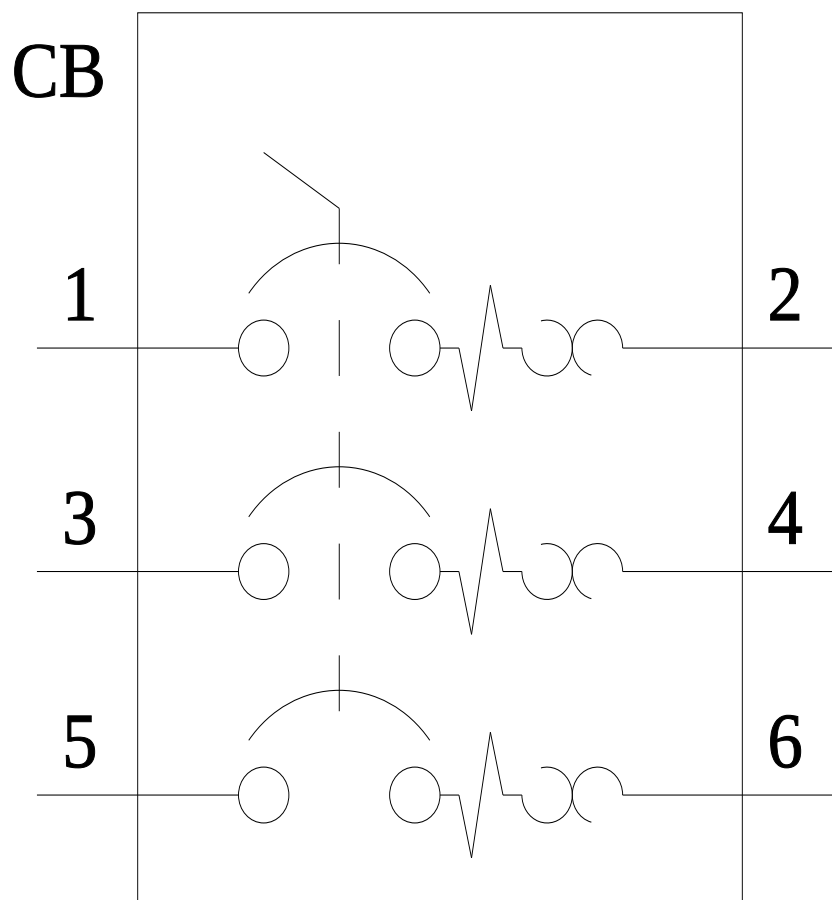
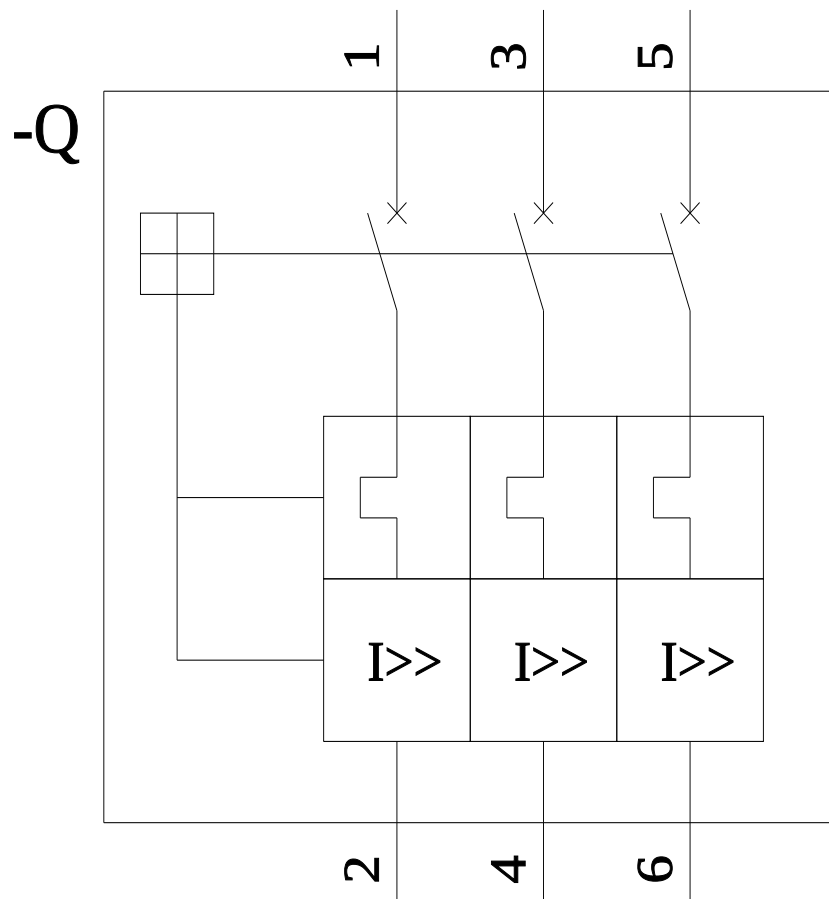
General Product Approval	EMC	Declaration of Conformity	
KC	Miscellaneous		

Test Certificates	Marine / Shipping			
Special Test Certificate	Miscellaneous			

Marine / Shipping	other	
	Miscellaneous	Miscellaneous

Further information
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=3VA5195-6ED31-0AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA5195-6ED31-0AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5195-6ED31-0AA0 CAX-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications





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