## SIEMENS

## Data sheet

## 3VA5110-6ED12-0AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class H 50kA @ 277 V 1-pole, line protection TM210, FTFM, In=100A overload protection Ir=100A fixed short-circuit protection Ii=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	H5EAS
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	L
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	7.6 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	7.6 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
ground-fault monitoring version	without
product function	
<ul> <li>communication function</li> </ul>	No
other measurement function	No
Net Weight	0.407 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	100 A
• at 45 °C	98 A
• at 50 °C	95 A
• at 55 °C	93 A
• at 60 °C	91 A
● at 65 °C	89 A

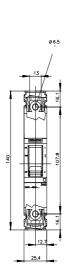
● at 70 °C	87 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	н
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	55 kA
• at 415 V	5 kA
operating short-circuit current breaking capacity (lcs)	
• at 240 V	55 kA
• at 415 V	5 kA
short-circuit current making capacity (Icm)	
• at 240 V	121 kA
• at 415 V	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	100 kA
• at 277 V	50 kA
• at 347 V	18 kA
Adjustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
• minimum	100 A
maximum	100 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	1 s
• maximum	1 s
adjustable response value setting current (li) / for I-tripping	
• minimum	1 000 A
• maximum	1 000 A
adjustable setting current (InN) / for N-tripping	
• minimum	0 A
• maximum	0 A
adjustable current response value current / of the current- dependent overload release	100 100 A
product function / grounding protection	No
Mechanical Design	
product component	
undervoltage release	No
<ul> <li>voltage trigger</li> </ul>	No
trip indicator	No
height [in]	5.51 in
height	140 mm
width [in]	1 in
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	nut keeper kit on both ends
type of connectable conductor cross-sections / for flat-bar terminal connection / minimum	12 x 1 mm
type of connectable conductor cross-sections / for flat-bar terminal connection / maximum	17 x 6.5 mm
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

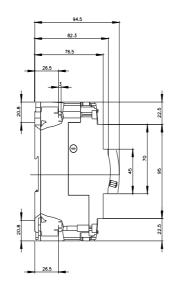
ambient temperature					
<ul> <li>during operatio</li> </ul>	n / minimum	-25 °	°C		
<ul> <li>during operatio</li> </ul>	n / maximum	70 °	C		
<ul> <li>during storage</li> </ul>	/ minimum	-40 °	°C		
<ul> <li>during storage</li> </ul>	/ maximum	80 °	C		
ertificates					
reference code / acco	ording to IEC 81346-2	Q			
General Product Ap	proval				
<u>Confirmation</u>		(UL) III		<u>Miscellaneous</u>	EHC
EMC	Test Certificates	Marine / Shipping	other		
RCM	<u>Special Test Certific-</u> <u>ate</u>	ABS	<u>Confirmation</u>	<u>Miscellaneous</u>	
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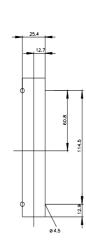
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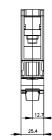
**Tender specifications** 

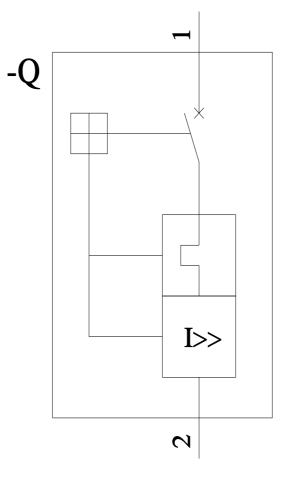
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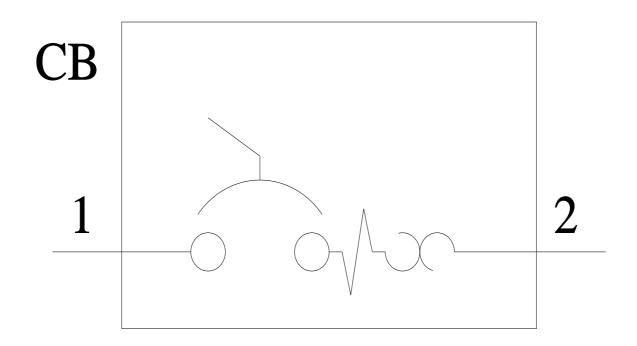












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