SIEMENS

Data sheet

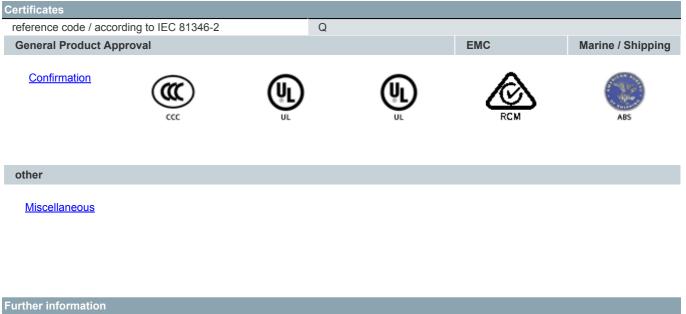
3VA5110-4EC32-0AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 480 V 3-pole, line protection TM230, FTAM, In=100A overload protection Ir=100A fixed short-circuit protection Ii=5...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 / 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	TM230
protection function of the overcurrent release	LI
number of poles	3
General technical data	
rated insulation voltage Ui	800 V
Max. rated operational voltage Ue with DC	500 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	22.8 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	7.6 W
mechanical service life (switching 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 (switching cycles) / at 480 V	8 000
electrical endurance (switching cycles) / at 600 V	4 000
Neutral conductors / upgradeable/retrofittable	No
ground-fault monitoring version	without
product function	
 communication function 	No
other measurement function	No
Net Weight	1.034 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

e at 55 °C	02.4
• at 55 °C	93 A 01 A
● at 60 °C ● at 65 °C	91 A 89 A
• at 50 °C	89 A 87 A
• at 70 C Switching capacity according to IEC 60947	
	S
switching capacity class of the circuit breaker	5
 breaking capacity maximum short-circuit current (Icu) at 240 V 	55 kA
• at 240 V • at 415 V	36 kA
• at 690 V	5 kA
breaking capacity operating short-circuit current (lcs)	
• at 240 V	85 kA
• at 415 V	36 kA
• at 690 V	5 kA
short-circuit current making capacity (Icm)	
• at 240 V	121 kA
• at 415 V	75.6 kA
● at 690 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	
breaking capacity current	
• at 240 V	65 kA
• at 480 V	25 kA
• at 600 Y/347 V	14 kA
Adjustable parameters	
Adjustable response value current / Ig min.	100 A
Adjustable response value current / Ig min.	100 A
Ground fault protection / tripping switchable / I2t=ON/OFF	No
Mechanical Design	
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	Front connection
type of electrical connection / for main current circuit	nut keeper kit on both ends
Type of connectable conductor cross-section, connection screw, width x thickness , min.	12 x 1 mm
Type of connectable conductor cross-section, connection screw, width x thickness , max.	17 x 6.5 mm
screw, width x thickness , max. Auxiliary circuit	17 x 6.5 mm
screw, width x thickness , max. Auxiliary circuit product component	
screw, width x thickness , max. Auxiliary circuit product component • undervoltage release	No
screw, width x thickness , max. Auxiliary circuit product component • undervoltage release • voltage trigger	No
screw, width x thickness , max. Auxiliary circuit product component • undervoltage release • voltage trigger • trip indicator	No No No
screw, width x thickness , max. Auxiliary circuit product component • undervoltage release • voltage trigger • trip indicator number of CO contacts / for auxiliary contacts	No
screw, width x thickness , max. Auxiliary circuit product component • undervoltage release • voltage trigger • trip indicator number of CO contacts / for auxiliary contacts Accessories	No No No O
screw, width x thickness , max. Auxiliary circuit product component • undervoltage release • voltage trigger • trip indicator number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive	No No No
screw, width x thickness , max. Auxiliary circuit product component • undervoltage release • voltage trigger • trip indicator number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions	No No No O Yes
screw, width x thickness , max. Auxiliary circuit product component • undervoltage release • voltage trigger • trip indicator number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front	No No No O
screw, width x thickness , max. Auxiliary circuit product component • undervoltage release • voltage trigger • trip indicator number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature	No No No 0 Yes IP40
screw, width x thickness , max. Auxiliary circuit product component • undervoltage release • voltage trigger • trip indicator number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum	No No No O Yes IP40 -25 °C
screw, width x thickness , max. Auxiliary circuit product component • undervoltage release • voltage trigger • trip indicator number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum • during operation / maximum	No No No 0 Yes IP40 -25 °C 70 °C
screw, width x thickness , max. Auxiliary circuit product component • undervoltage release • voltage trigger • trip indicator number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum	No No No O Yes IP40 -25 °C



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