SIEMENS

Data sheet

3VA5111-4ED26-0AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 480 V 2-pole, line protection TM210, FTFM, In=110A overload protection Ir=110A fixed short-circuit protection Ii=10 x In cable connection 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	TM210	
protection function of the overcurrent release	LI	
number of poles	2	
General technical data		
insulation voltage / rated value	600 V	
Max. rated operational voltage Ue with DC	250 V	
operating voltage / at AC / rated value	415 V	
power loss [W] / maximum	17.2 W	
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	8.6 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	0.668 kg	
Current		
marking / according to UL 489 / 100%-rated breaker	No	
operational current		
● at 40 °C	110 A	
● at 45 °C	107 A	
● at 50 °C	105 A	
● at 55 °C	103 A	
• at 60 °C	100 A	

● at 65 °C ● at 70 °C	98 A 96 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	S
breaking capacity maximum short-circuit current (Icu)	
• at 240 V	55 kA
• at 415 V	36 kA
 breaking capacity operating short-circuit current (Ics) at 240 V 	55 kA
• at 415 V	36 kA
short-circuit current making capacity (Icm)	
• at 240 V	121 kA
• at 415 V	75.6 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 Adjustable parameters	14 kA
Adjustable parameters product feature / for L-tripping / selectable characteristic	No
function type of value list setting current (Ir) / for L-tripping / with I2t	Fest
characteristic	
reference value setting current (Ir) / for L-tripping / with I2t characteristic	x ln
set values setting current (Ir) / for L-tripping / with I2t characteristic	1
adjustable response factor setting current (Ir) / for L- tripping / with I2t characteristic / minimum	1
adjustable response factor setting current (Ir) / for L- tripping / with I2t characteristic / maximum	1
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic / minimum	110 A
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic / maximum	110 A
type of value list delay time (tr) / for L-tripping / with I2t characteristic	Fest
reference value delay time (tr) / for L-tripping / with I2t characteristic	S
set values delay time (tr) / for L-tripping / with I2t characteristic	1
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic / minimum	1 s
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic / maximum	1 s
product feature / for S-tripping / independent of direction / selectable characteristic function	No
product feature / for I-tripping / can be switched on/off	No
design of I-trip / adjustable reference value setting current (li) / for I-tripping	No x In
set values setting current (li) / for I-tripping	10
adjustable response factor setting current (li) / for I- tripping / minimum	10
adjustable response factor setting current (li) / for I- tripping / maximum	10
adjustable response value setting current (li) / for I-tripping / minimum	1 100 A
adjustable response value setting current (li) / for I-tripping / maximum	1 100 A
product feature / for G-tripping / selectable characteristic function	No
product feature / with neutral conductor protection / can be switched on/off	No
product feature / with neutral conductor protection / adjustable	Yes

type of value list setting current (InN) / for N-tripping	St
reference value setting current (InN) / for N-tripping	x In
adjustable absolute value setting current (InN) / for N-	0 A
tripping / minimum	0.4
adjustable absolute value setting current (InN) / for N- tripping / maximum	0 A
tripping characteristic / of the lower tolerance band	AK_3VA5_1_110A_TM2_SuMuH_uT
tripping characteristic / of the upper tolerance band	AK_3VA5_1_110A_TM2_SuMuH_oT
let-through energy characteristic / at 240 V	DE_3VA5_1_110A_TM2uMCS110_line_2p_240V
let-through energy characteristic / at 415 V	DE_3VA5_1_110A_TM2uMCS110_line_2p_415V
type of value list setting current (li) / for I-tripping	Fest
tripping characteristic / of the let-through current	DS_3VA5_1_110A_TM2uMCS110_line_2p_240V
characteristic / at 240 V	
tripping characteristic / of the let-through current	DS_3VA5_1_110A_TM2uMCS110_line_2p_415V
characteristic / at 415 V	440 A
Adjustable response value current / Ig min.	110 A 110 A
adjustable current response value current / of the current- dependent overload release / full-scale value	TIU A
Ground fault protection / tripping switchable / I2t=ON/OFF	No
Mechanical Design	
product component	
undervoltage release	No
voltage trigger	No
trip indicator	No
height [in]	5.51 in
Height	140 mm
width [in]	2 in
Type of connectable conductor cross-section, round	1 x (8 AWG - 3/0)
conductor terminal, stranded	
Width	50.8 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
Accessories	•
product extension / optional / motor drive	No
Environmental conditions	
	1040
protection class IP / on the front ambient temperature	IP40
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	
PL C	
<u>Confirmation</u>	Miscellaneous
(CCC) (VL)	
EMO Declaration of Ourformity	Marina / Chinning
EMC Declaration of Conformity	Marine / Shipping













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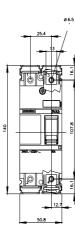
Miscellaneous

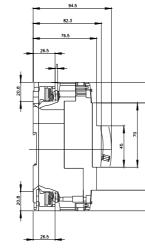
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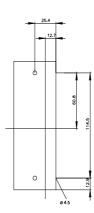
Further information

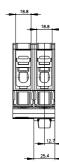
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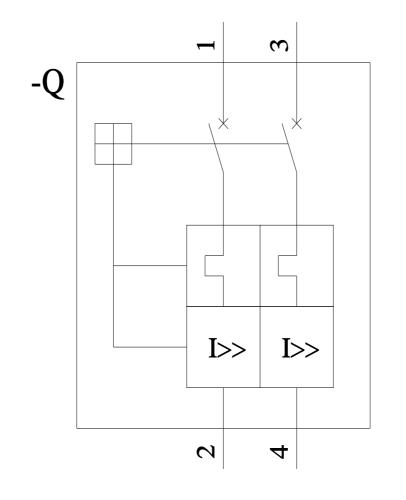
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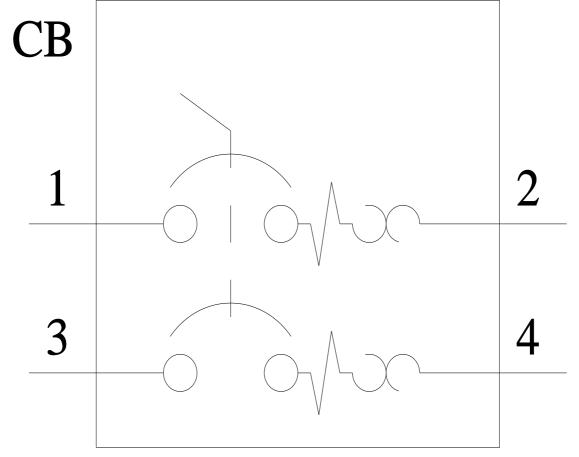












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