SIEMENS

Data sheet

3VA5110-1BB26-0AA0



molded case switch 3VA5 UL frame 125 max. sh-circ breaking capacity 65kA @ 480 V 2-pole, line protection MCS110, In=100A without overload protection self-protection li=16 x In cable connection on both sides

Model			
product brand name	SENTRON		
product designation	Molded-case circuit breaker		
product designation / according to UL file	HEAS		
Product version	Molded case switch		
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	MCS110		
protection function of the overcurrent release	1		
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	12.8 W		
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	6.4 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	100 A		
● at 45 °C	100 A		
● at 50 °C	100 A		
● at 55 °C	100 A		
● at 60 °C	100 A		

● at 65 °C	97 A		
● at 70 °C	94 A		
Switching capacity according to IEC 60947			
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		
Adjustable parameters			
product feature / for L-tripping / selectable characteristic function	No		
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	No		
reference value setting current (li) / for l-tripping	x In		
set values setting current (li) / for I-tripping	16		
adjustable response factor setting current (li) / for l-tripping / minimum	16		
adjustable response factor setting current (li) / for I-tripping / maximum	16		
adjustable response value setting current (li) / for l-tripping / minimum	1 600 A		
adjustable response value setting current (li) / for I-tripping / maximum	1 600 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-tripping / minimum	0 A		
adjustable absolute value setting current (InN) / for N-tripping / maximum	0 A		
tripping characteristic / of the upper tolerance band let-through energy characteristic / at 240 V	AK_3VA5_1_100A_MCS110_SuMuH_oT DE_3VA5_1_100A_TM2uMCS110_line_2p_240V		
let-through energy characteristic / at 415 V	DE_3VA5_1_100A_TM2uMCS110_line_2p_240V DE_3VA5_1_100A_TM2uMCS110_line_2p_415V		
type of value list setting current (li) / for l-tripping	Fest		
tripping characteristic / of the let-through current characteristic / at 240 V	DS_3VA5_1_100A_TM2uMCS110_line_2p_240V		
tripping characteristic / of the let-through current characteristic / at 415 V	DS_3VA5_1_100A_TM2uMCS110_line_2p_415V		
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 conductor terminal, stranded	1 x (8 AWG - 3/0)		
Width	50.8 mm		
depth [in]	3.01 in		
depth	76.5 mm		
Connections arrangement of electrical connectors / for main current	Front connection		
circuit 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			
	No		
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					
reference code / according to IEC 81346-2	Q				
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Yes				
General Product Approval		EMC	Declaration of Conformity		



Confirmation

Miscellaneous







Marine / Shipping

other



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=3VA5110-1BB26-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5110-1BB26-0AA0

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

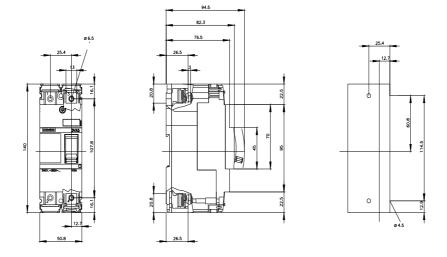
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5110-1BB26-0AA0

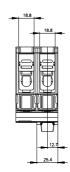
CAx-Online-Generator

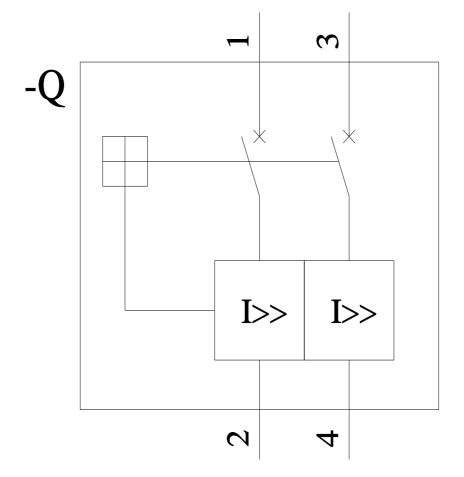
http://www.siemens.com/cax

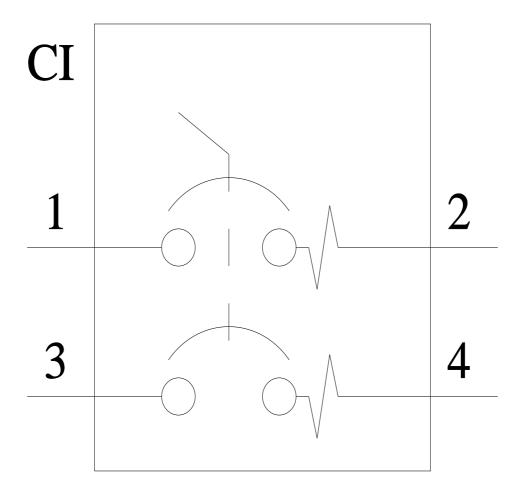
Tender specifications

http://www.siemens.com/specifications









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