SIEMENS

Data sheet

3VA5110-1MU36-0AA0



circuit breaker 3VA5 UL frame 125 3-pole, starter protection TM120M, AM, In=100A without overload protection short-circuit protection Ii=3...7 x In cable connection on both sides

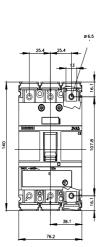
Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HEAP
Product version	Starter protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design of 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	TM120M
protection function of the overcurrent release	I contract of the second se
number of poles	3
General technical data	
insulation voltage / rated value	800 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	19.2 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
 phase failure detection 	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
● at 55 °C	93 A
• at 60 °C	91 A

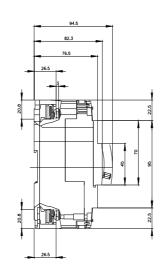
● at 65 °C	89 A
• at 70 °C	87 A
Switching capacity according to IEC 60947	
breaking capacity maximum short-circuit current (Icu)	
• at 240 V	150 kA
• at 415 V	70 kA
• at 690 V	10 kA
breaking capacity operating short-circuit current (Ics)	
• at 240 V	150 kA
• at 415 V	70 kA
• at 690 V	5 kA
short-circuit current making capacity (Icm)	
• at 240 V	330 kA
• at 415 V	154 kA
• at 690 V	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

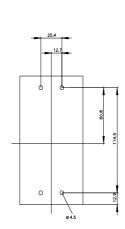
Adjustable parameters	
product feature / for L-tripping / selectable characteristic function	No
product feature / for S-tripping / independent of direction / selectable characteristic function	No
product feature / for I-tripping / can be switched on/off	No
design of I-trip / adjustable	Yes
reference value setting current (li) / for I-tripping	x In
set values setting current (li) / for I-tripping	3;4;5;6;7
adjustable response factor setting current (li) / for l- tripping / minimum	3
adjustable response factor setting current (li) / for l- tripping / maximum	7
adjustable response value setting current (li) / for l-tripping / minimum	300 A
adjustable response value setting current (li) / for I-tripping / maximum	700 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	AK_3VA5_1_100A_TM120M2_H_oT
let-through energy characteristic / at 240 V	DE_3VA5_1_100A_TMuMCS110_line u starter_3u4p_240V
let-through energy characteristic / at 415 V	DE_3VA5_1_100A_TMuMCS110_line u starter_3u4p_415V
let-through energy characteristic / at 690 V	DE_3VA5_1_100A_TMuMCS110_line u starter_3u4p_690V
type of value list setting current (li) / for I-tripping	St
tripping characteristic / of the let-through current characteristic / at 240 V	DS_3VA5_1_100A_TMuMCS110_line u starter_3u4p_240V
tripping characteristic / of the let-through current characteristic / at 415 V	DS_3VA5_1_100A_TMuMCS110_line u starter_3u4p_415V
tripping characteristic / of the let-through current characteristic / at 690 V	DS_3VA5_1_100A_TMuMCS110_line u starter_3u4p_690V
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

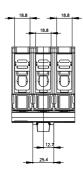
width [in]	3 in
Type of connectable conductor cross-section, round	1 x (8 AWG - 3/0)
conductor terminal, stranded Width	76.2 mm
depth [in]	3.01 in
depth	76.5 mm
Connections	
arrangement of electrical connectors / for main current circuit	Front connection
type of electrical connection / for main current circuit	circular conductor terminal on both sides
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	0
reference code / according to IEC 81346-2 certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Q Yes
General Product Approval	EMC Declaration of Conformity
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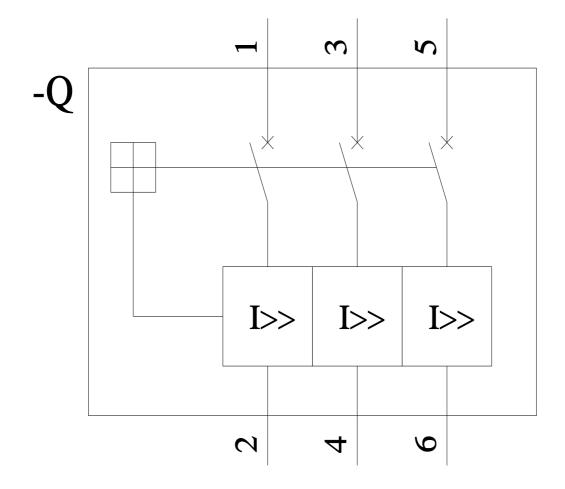
http://www.siemens.com/specifications

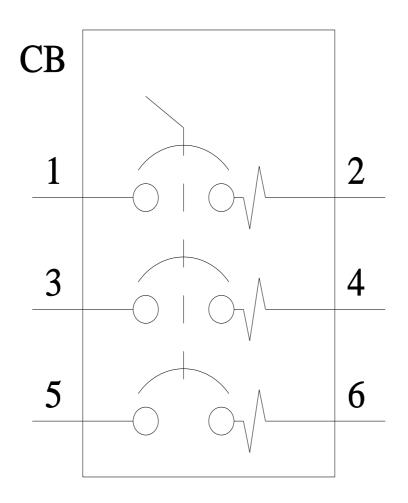












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