SIEMENS

Data sheet

3VA5107-1MU36-0AA0



circuit breaker 3VA5 UL frame 125 3-pole, starter protection TM120M, AM, In=7A without overload protection short-circuit protection li=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	1
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	16 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	5.3 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	0.811 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	7 A
• at 45 °C	7 A
• at 50 °C	7 A
• at 55 °C	7 A
• at 60 °C	7 A

● at 65 °C	7 A
• at 70 °C	7 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 (lcs)	
• 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	21 A
adjustable response value setting current (li) / for l-tripping / maximum	49 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_7A_TM120M2_H_oT
let-through energy characteristic / at 240 V	DE_3VA5_1_7A_TM_line u starter_3u4p_240V
let-through energy characteristic / at 415 V	DE_3VA5_1_7A_TM_line u starter_3u4p_415V
let-through energy characteristic / at 690 V	DE_3VA5_1_7A_TM_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_7A_TM_line u starter_3u4p_240V
tripping characteristic / of the let-through current characteristic / at 415 V	DS_3VA5_1_7A_TM_line u starter_3u4p_415V
tripping characteristic / of the let-through current characteristic / at 690 V	DS_3VA5_1_7A_TM_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 (14 AWG - 8 AWG) conductor terminal, stranded Width 76.2 mm depth [in] 3.01 in 76.5 mm depth 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 product extension / optional / motor drive Yes **Environmental conditions** protection class IP / on the front IP40 ambient temperature -25 °C • during operation / minimum 70 °C • during operation / maximum • during storage / minimum -40 °C • during storage / maximum 80 °C Q reference code / according to IEC 81346-2 certificate of suitability / as approval for NAVAL (no Yes combat vessels) / supplement SB

Confirmation

General Product Approval



Miscellaneous



EMC



Declaration of Conformity



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=3VA5107-1MU36-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5107-1MU36-0AA0

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

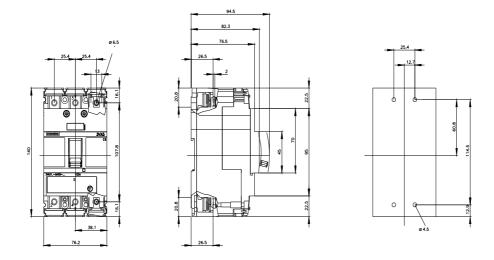
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5107-1MU36-0AA0

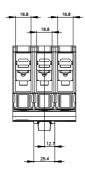
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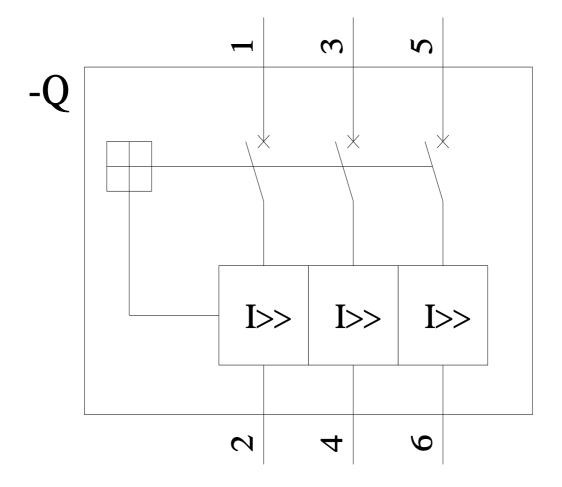
http://www.siemens.com/cax

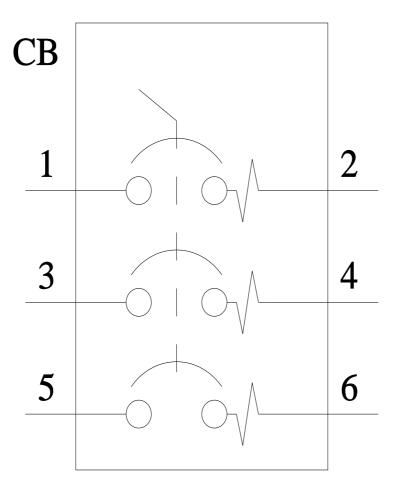
Tender specifications

http://www.siemens.com/specifications









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