SIEMENS

Data sheet

3VA5191-1MU36-0AA0



circuit breaker 3VA5 UL frame 125 3-pole, starter protection TM120M, AM, In=10A 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	The state of the s				
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	6 W				
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	2.07 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	0.794 kg				
Current					
marking / according to UL 489 / 100%-rated breaker	No				
operational current					
• at 40 °C	10 A				
● at 45 °C	10 A				
• at 50 °C	10 A				
● at 55 °C	10 A				
• at 60 °C	10 A				

● at 65 °C	10 A		
• at 70 °C	10 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 (lcm)			
• 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		
design of short-offeatt protection	circuit breaker device manual; link to be found under Service & Support		
	in the last chapter		
Adjustable parameters			
product feature / for L-tripping / selectable characteristic	No		
function product feature / for S. tripping / independent of direction /	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 (II) / for I-	3		
tripping / minimum	°		
adjustable response factor setting current (li) / for I-	7		
tripping / maximum			
adjustable response value setting current (li) / for l-tripping / minimum	30 A		
adjustable response value setting current (li) / for l-tripping / maximum	70 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_10A_TM120M2_H_oT		
let-through energy characteristic / at 240 V	DE_3VA5_1_10A_TM_line u starter_3u4p_240V		
let-through energy characteristic / at 415 V	DE_3VA5_1_10A_TM_line u starter_3u4p_415V		
let-through energy characteristic / at 690 V	DE_3VA5_1_10A_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_10A_TM_line u starter_3u4p_240V		
tripping characteristic / of the let-through current characteristic / at 415 V	DS_3VA5_1_10A_TM_line u starter_3u4p_415V		
tripping characteristic / of the let-through current characteristic / at 690 V	DS_3VA5_1_10A_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		
<u> </u>			

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					
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						
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



CE EG-Konf.



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=3VA5191-1MU36-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5191-1MU36-0AA0

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

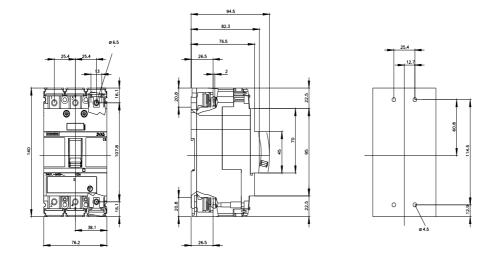
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5191-1MU36-0AA0

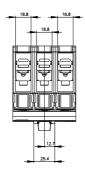
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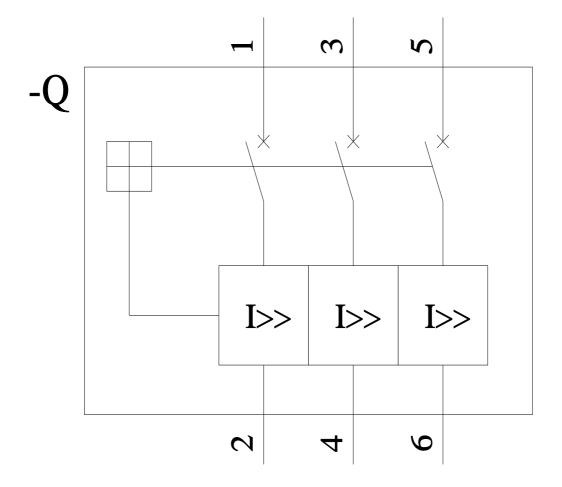
http://www.siemens.com/cax

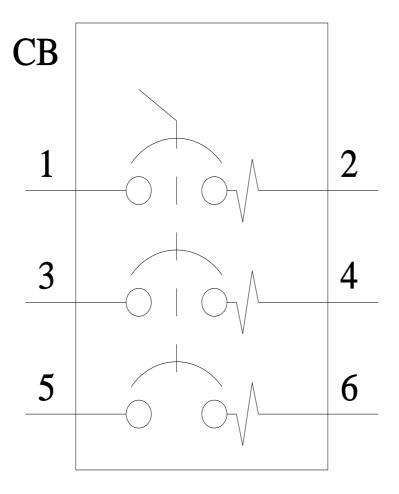
Tender specifications

http://www.siemens.com/specifications









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