## **SIEMENS**

## **Data sheet**

3VA5191-1MH36-0AA0



circuit breaker 3VA5 UL frame 125 3-pole, starter protection TM120M, AM, In=10A without overload protection short-circuit protection li=5...12 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		
<ul> <li>phase failure detection</li> </ul>	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		
accigit or errors amount procession.	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 /	No		
selectable characteristic function			
product feature / for I-tripping / can be switched on/off	No		
design of I-trip / adjustable	Yes		
reference value setting current (li) / for l-tripping	x ln		
set values setting current (li) / for I-tripping	5;6;7;8;9;10;11;12		
adjustable response factor setting current (li) / for l-tripping / minimum	5		
adjustable response factor setting current (li) / for l-tripping / maximum	12		
adjustable response value setting current (li) / for l-tripping / minimum	50 A		
adjustable response value setting current (li) / for l-tripping / maximum	120 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 ln		
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_TM120M1_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		

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					
<ul><li>during operation / minimum</li></ul>	-25 °C				
<ul><li>during operation / maximum</li></ul>	70 °C				
<ul><li>during storage / minimum</li></ul>	-40 °C				
<ul> <li>during storage / maximum</li> </ul>	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** 



€ 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=3VA5191-1MH36-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5191-1MH36-0AA0

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

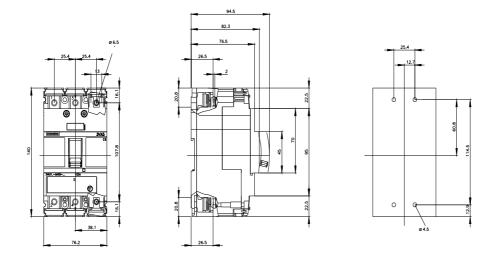
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5191-1MH36-0AA0

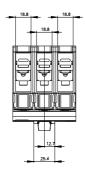
**CAx-Online-Generator** 

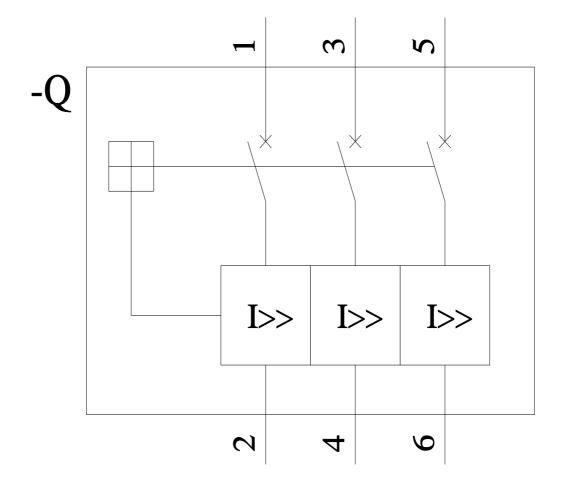
http://www.siemens.com/cax

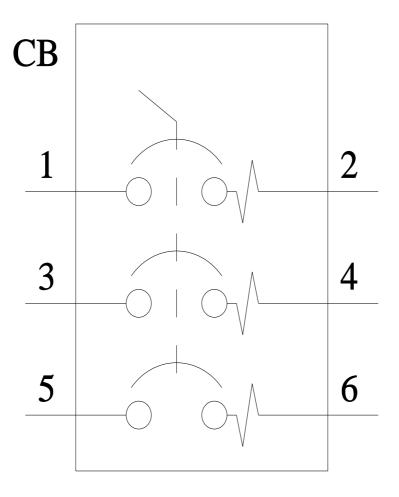
**Tender specifications** 

http://www.siemens.com/specifications









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