## SIEMENS

## Data sheet

## 3VA5170-1MU36-0AA0



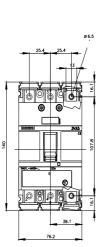
circuit breaker 3VA5 UL frame 125 3-pole, starter protection TM120M, AM, In=70A without overload protection short-circuit protection Ii=3...7 x In cable connection on both sides

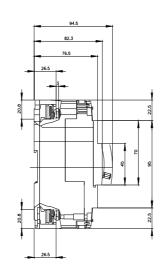
Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HEAP
Product version	Starter protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design of 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
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	10.9 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	3.63 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
<ul> <li>other measurement function</li> </ul>	No
Net Weight	1.034 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	70 A
● at 45 °C	70 A
● at 50 °C	70 A
● at 55 °C	70 A
• at 60 °C	70 A

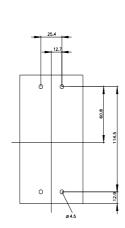
● at 65 °C	70 A
• at 70 °C	70 A
Switching capacity according to IEC 60947	
breaking capacity maximum short-circuit current (Icu)	
• at 240 V	150 kA
• at 415 V	70 kA
• at 690 V	10 kA
breaking capacity operating short-circuit current (Ics)	
• at 240 V	150 kA
• at 415 V	70 kA
• at 690 V	5 kA
short-circuit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

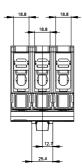
Adjustable parameters			
product feature / for L-tripping / selectable characteristic function	No		
product feature / for S-tripping / independent of direction / selectable characteristic function	No		
product feature / for I-tripping / can be switched on/off	No		
design of I-trip / adjustable	Yes		
reference value setting current (li) / for I-tripping	x ln		
set values setting current (li) / for I-tripping	3;4;5;6;7		
adjustable response factor setting current (li) / for I- tripping / minimum	3		
adjustable response factor setting current (li) / for l- tripping / maximum	7		
adjustable response value setting current (li) / for I-tripping / minimum	210 A		
adjustable response value setting current (li) / for I-tripping / maximum	490 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_70A_TM120M2_H_oT		
let-through energy characteristic / at 240 V	DE_3VA5_1_70A_TM_line u starter_3u4p_240V		
let-through energy characteristic / at 415 V	DE_3VA5_1_70A_TM_line u starter_3u4p_415V		
let-through energy characteristic / at 690 V	DE_3VA5_1_70A_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_70A_TM_line u starter_3u4p_240V		
tripping characteristic / of the let-through current characteristic / at 415 V	DS_3VA5_1_70A_TM_line u starter_3u4p_415V		
tripping characteristic / of the let-through current characteristic / at 690 V	DS_3VA5_1_70A_TM_line u starter_3u4p_690V		
Ground fault protection / tripping switchable / I2t=ON/OFF	No		
Mechanical Design			
product component			
<ul> <li>undervoltage release</li> </ul>	No		
<ul> <li>voltage trigger</li> </ul>	No		
trip indicator	No		
height [in]	5.51 in		
Height	140 mm		

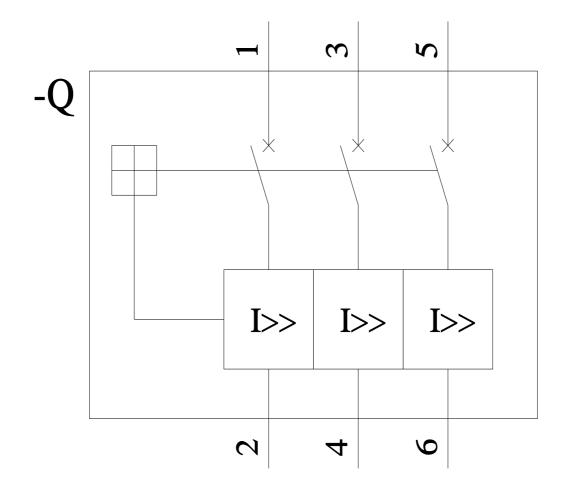
width [in]		a record	3 in			
Type of connectable of conductor terminal, st		n, round	1 x (8 AWG - 3/0)			
Width			76.2 mm			
depth [in]			3.01 in			
depth	depth			76.5 mm		
Connections						
arrangement of electri	ical connectors / for m	ain current	Front connection			
circuit						
type of electrical conn	ection / for main curre	ent circuit	circular conductor term	ninal on both sides		
Auxiliary circuit						
number of CO contac	ts / for auxiliary contac	cts	0			
Accessories						
product extension / op			Yes			
Environmental condit						
protection class IP / o	n the front		IP40			
ambient temperature	,		25.00			
<ul> <li>during operation</li> </ul>			-25 °C 70 °C			
<ul> <li>during operation</li> <li>during storage /</li> </ul>			-40 °C			
during storage /			-40 °C			
Certificates	maximam		00 0			
reference code / acco	rding to IEC 81346-2		Q			
certificate of suitability	-	VAL (no	Yes			
combat vessels) / sup						
General Product Ap	proval		EMC	Declaration of Co	nformity	
			_			
<b>Confirmation</b>	(m)	Miscellaneo		"	UK	
Confirmation		Miscellaneo		CE	UK	
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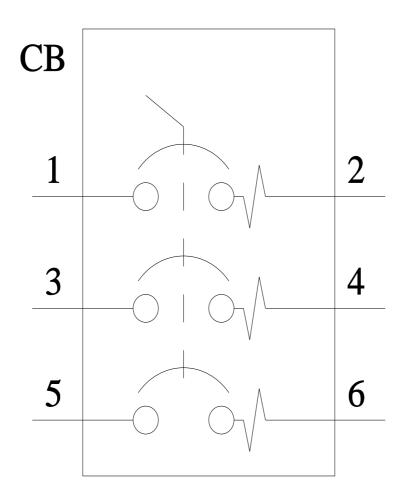












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