## SIEMENS

## Data sheet

## 3VA5130-1MU36-0AA0



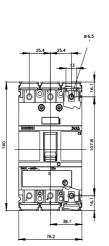
circuit breaker 3VA5 UL frame 125 3-pole, starter protection TM120M, AM, In=30A without overload protection short-circuit protection Ii=3...7 x In cable connection on both sides

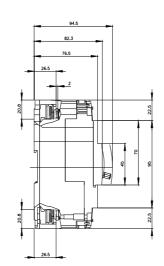
Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HEAP
Product version	Starter protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design of 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	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	8.8 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	2.93 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	1.017 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	30 A
● at 45 °C	30 A
• at 50 °C	30 A
• at 55 °C	30 A
• at 60 °C	30 A

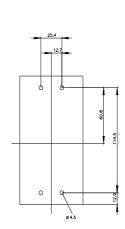
● at 65 °C ● at 70 °C	30 A 30 A
Switching capacity according to IEC 60947	50 A
breaking capacity maximum short-circuit current (Icu)	
• at 240 V	150 kA
• at 415 V	70 kA
• at 690 V	10 kA
breaking capacity operating short-circuit current (Ics)	
• at 240 V	150 kA
• at 415 V	70 kA
• at 690 V	5 kA
short-circuit 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

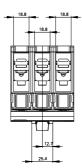
Adjustable parameters	
product feature / for L-tripping / selectable characteristic function	No
product feature / for S-tripping / independent of direction / selectable characteristic function	No
product feature / for I-tripping / can be switched on/off	No
design of I-trip / adjustable	Yes
reference 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 I-tripping / minimum	90 A
adjustable response value setting current (li) / for I-tripping / maximum	210 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_30A_TM120M2_H_oT
let-through energy characteristic / at 240 V	DE_3VA5_1_30A_TM_line u starter_3u4p_240V
let-through energy characteristic / at 415 V	DE_3VA5_1_30A_TM_line u starter_3u4p_415V
let-through energy characteristic / at 690 V	DE_3VA5_1_30A_TM_line u starter_3u4p_690V
type of value list setting current (li) / for l-tripping	St
tripping characteristic / of the let-through current characteristic / at 240 V	DS_3VA5_1_30A_TM_line u starter_3u4p_240V
tripping characteristic / of the let-through current characteristic / at 415 V	DS_3VA5_1_30A_TM_line u starter_3u4p_415V
tripping characteristic / of the let-through current characteristic / at 690 V	DS_3VA5_1_30A_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
<ul> <li>trip indicator</li> </ul>	No
height [in]	5.51 in
Height	140 mm

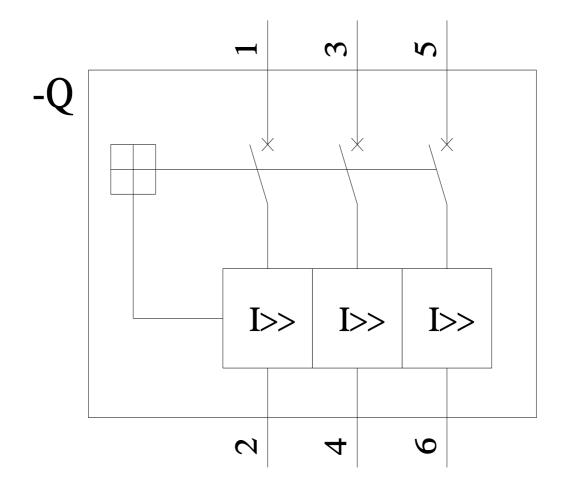
width [in]	and unter areas section .	a.u.a.d	3 in		
conductor terminal, st	conductor cross-section, r randed	ound	1 x (14 AWG - 8 AWG)		
Width			76.2 mm		
depth [in]			3.01 in		
depth			76.5 mm		
Connections					
arrangement of electri	cal connectors / for main	current	Front connection		
circuit					
type of electrical conn	ection / for main current of	circuit	circular conductor termi	nal on both sides	
Auxiliary circuit					
number of CO contact	ts / for auxiliary contacts		0		
Accessories					
product extension / op	otional / motor drive		Yes		
Environmental conditi	ions				
protection class IP / or	n the front		IP40		
ambient temperature					
<ul> <li>during operatior</li> </ul>	n / minimum		-25 °C		
<ul> <li>during operatior</li> </ul>	n / maximum		70 °C		
<ul> <li>during storage /</li> </ul>	minimum		-40 °C		
<ul> <li>during storage /</li> </ul>	maximum		80 °C		
Certificates					
reference code / acco	-		Q		
	/ as approval for NAVAL	. (no	Yes		
combat vessels) / sup					•
General Product Ap	proval		EMC	Declaration of Cor	nformity
Confirmation		Miscellaneo			
Confirmation	$(\mathbf{m})$	Miscellanec		CE	UK
Confirmation		Miscellanec		CE	
<u>Confirmation</u>	(CCC)	Miscellaneo		CE EG-Konf.	UK CA
<u>Confirmation</u>	CCC	<u>Miscellanec</u>		CE EG-Konf.	UK CA
		Miscellanec	NUS RCM	CE EG-Konf.	UK CA
Confirmation Marine / Shipping	ccc	Miscellanec	RCM	CE EG-Konf.	UK CA
		Miscellanec	NUS RCM	CE EG-Konf.	UK CA
	other Miscellaneous	Miscellaneo	NUS RCM	CE EG-Konf.	UK CA
		Miscellanec	RCM	CE EG-Konf.	UK
		Miscellanec	NUS RCM	CE EG-Konf.	UK
		Miscellanec	NUS RCM	C E EG-Konf.	UK
		Miscellaneo	RCM	ÇE EG-Konf.	UK CA
Marine / Shipping		Miscellanec	NUS	СЕ EG-Konf.	UK
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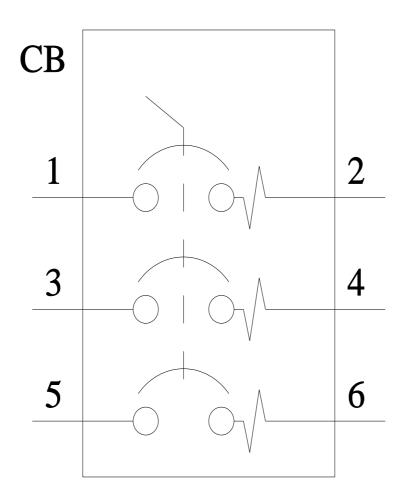












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