SIEMENS

Data sheet

3VA5140-1MU36-0AA0



circuit breaker 3VA5 UL frame 125 3-pole, starter protection TM120M, AM, In=40A 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	T. Control of the Con			
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	5 W			
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	1.67 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	1.017 kg			
Current				
marking / according to UL 489 / 100%-rated breaker	No			
operational current				
• at 40 °C	40 A			
● at 45 °C	40 A			
● at 50 °C	40 A			
● at 55 °C	40 A			
• at 60 °C	40 A			

* at 70 °C ** breaking capacity according to IEG 60947 breaking capacity maximum short-circuit current (Icu) * at 240 V ** * at 690 V ** * at 690 V ** * at 690 V ** * at 415 V ** * at 690	• at 65 °C	40 A		
December				
December	Switching capacity according to IEC 60947			
al 415 V al 690 V breaking capacity operating short-circuit current (Ics) al 140 V al 415 V al 690 V breaking capacity (Icm) al 240 V al 415 V al 690 V breaking capacity (Icm) al 240 V al 415 V al 690 V breaking capacity (Icm) al 240 V al 415 V breaking capacity (Icm) breaking capacity (Icm) breaking capacity (Icm) al 415 V breaking capacity (Icm) breaking capaci	breaking capacity maximum short-circuit current (Icu)			
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breaking capacity operating short-circuit current (lcs) • at 240 V • at 451 V • at 690 V • at 415 V • at 690 V • at 690 V • at 690 r • at 690 v • at 690	• at 415 V	70 kA		
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tripping / maximum adjustable response value setting current (Ii) / for I-tripping / minimum adjustable response value setting current (Ii) / for I-tripping / maximum product feature / for G-tripping / selectable characteristic function product feature / with neutral conductor protection / can be switched on/off product feature / with neutral conductor protection / adjustable on/off product feature / with neutral conductor protection / adjustable product feature / with neutral conductor protection / adjustable product feature / with neutral conductor protection / adjustable product feature / with neutral conductor protection / adjustable product feature / with neutral conductor protection / adjustable product feature / with neutral conductor protection / adjustable product feature / with neutral conductor protection / adjustable product feature / with neutral conductor protection / adjustable product feature / with neutral conductor protection / and product feature / with neutral conductor protection / and product feature / with neutral conductor protection / adjustable absolute value setting current (InN) / for N-tripping / maximum tripping / have product value setting current (InN) / for N-tripping / have product value setting current (InN) / for N-tripping / have product value setting current (InN) / for N-tripping / have product value setting current (InN) / for N-tripping / have product value is setting current (InN) / for N-tripping / have product value is setting current (InN) / for N-tripping / have product value is setting current (InN) / for N-tripping / have product value is setting current (InN) / for N-tripping / have product value is setting current (InN) / for N-tripping / have product value is setting current (InN) / for N-tripping / have product value is setting current (InN) / for N-tripping / have product value is setting current (InN) / for N-tripping / have product value is setting current (InN) /	tripping / minimum			
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/ maximum product feature / for G-tripping / selectable characteristic function product feature / with neutral conductor protection / can be switched on/off product feature / with neutral conductor protection / adjustable type of value list setting current (InN) / for N-tripping you will be subsolute value setting current (InN) / for N-tripping you will be absolute value setting current (InN) / for N-tripping / minimum adjustable absolute value setting current (InN) / for N-tripping / maximum tripping / maximum tripping / maximum tripping characteristic / of the upper tolerance band let-through energy characteristic / at 415 V let-through energy characteristic / at 690 V type of value list setting current (Ii) / for I-tripping stripping characteristic / of the let-through current characteristic / at 240 V tripping characteristic / of the let-through current characteristic / at 240 V tripping characteristic / of the let-through current characteristic / at 415 V tripping characteristic / of the let-through current characteristic / at 415 V tripping characteristic / of the let-through current characteristic / at 415 V tripping characteristic / of the let-through current characteristic / at 690 V tripping characteristic / of the let-through current characteristic / at 690 V tripping characteristic / of the let-through current characteristic / at 690 V Ground fault protection / tripping switchable / I2t=ON/OFF Mechanical Design product component • undervoltage release	/ minimum			
function product feature / with neutral conductor protection / can be switched on/off product feature / with neutral conductor protection / adjustable type of value list setting current (InN) / for N-tripping reference value setting current (InN) / for N-tripping adjustable absolute value setting current (InN) / for N- tripping / minimum adjustable absolute value setting current (InN) / for N- tripping / maximum tripping characteristic / of the upper tolerance band let-through energy characteristic / at 240 V let-through energy characteristic / at 415 V let-through energy characteristic / at 690 V type of value list setting current (Il) / for I-tripping tripping characteristic / of the let-through current characteristic / at 240 V tripping characteristic / of the let-through current characteristic / at 415 V tripping characteristic / of the let-through current characteristic / at 415 V tripping characteristic / of the let-through current characteristic / at 415 V tripping characteristic / of the let-through current characteristic / at 690 V Ground fault protection / tripping switchable / I2t=ON/OFF No Mechanical Design product component • undervoltage release No	/ maximum			
switched on/off product feature / with neutral conductor protection / adjustable type of value list setting current (lnN) / for N-tripping reference value setting current (lnN) / for N-tripping adjustable absolute value setting current (lnN) / for N- tripping / minimum adjustable absolute value setting current (lnN) / for N- tripping / maximum tripping characteristic / of the upper tolerance band let-through energy characteristic / at 240 V let-through energy characteristic / at 415 V let-through energy characteristic / at 690 V type of value list setting current (li) / for I-tripping tripping characteristic / of the let-through current characteristic / at 240 V tripping characteristic / of the let-through current characteristic / at 240 V tripping characteristic / of the let-through current characteristic / at 415 V tripping characteristic / of the let-through current characteristic / at 415 V tripping characteristic / of the let-through current characteristic / at 415 V tripping characteristic / of the let-through current characteristic / at 415 V tripping characteristic / of the let-through current characteristic / at 690 V Ground fault protection / tripping switchable / I2t=ON/OFF Mechanical Design product component • undervoltage release No	function	No		
adjustable type of value list setting current (lnN) / for N-tripping reference value setting current (lnN) / for N-tripping adjustable absolute value setting current (lnN) / for N- tripping / minimum adjustable absolute value setting current (lnN) / for N- tripping / minimum adjustable absolute value setting current (lnN) / for N- tripping / maximum tripping characteristic / of the upper tolerance band let-through energy characteristic / at 240 V let-through energy characteristic / at 415 V let-through energy characteristic / at 690 V type of value list setting current (li) / for N- tripping characteristic / of the let-through current characteristic / at 240 V tripping characteristic / of the let-through current characteristic / at 415 V tripping characteristic / of the let-through current characteristic / at 415 V Tripping characteristic / of the let-through current characteristic / at 415 V Ground fault protection / tripping switchable / I2t=ON/OFF Mechanical Design product component • undervoltage release No	·	No		
reference value setting current (InN) / for N-tripping adjustable absolute value setting current (InN) / for N-tripping / minimum adjustable absolute value setting current (InN) / for N-tripping / maximum ripping characteristic / of the upper tolerance band let-through energy characteristic / at 240 V let-through energy characteristic / at 415 V let-through energy characteristic / at 415 V let-through energy characteristic / at 690 V pe of value list setting current (Ii) / for I-tripping tripping characteristic / of the let-through current characteristic / at 240 V letipping characteristic / of the let-through current characteristic / at 415 V letipping characteristic / of the let-through current characteristic / of the let-through current characteristic / at 415 V letipping characteristic / of the let-through current characteristic / at 690 V letipping characteristic / of the let-through current characteristic / at 690 V letipping characteristic / of the let-through current characteristic / at 690 V letipping characteristic / of the let-through current letipping characteristic / of the let-through current letipping characteristic / of the letipping switchable / I2t=ON/OFF letipping letippin		Yes		
adjustable absolute value setting current (InN) / for N- tripping / minimum adjustable absolute value setting current (InN) / for N- tripping / maximum tripping characteristic / of the upper tolerance band let-through energy characteristic / at 240 V let-through energy characteristic / at 415 V let-through energy characteristic / at 690 V type of value list setting current (Ii) / for I-tripping tripping characteristic / of the let-through current characteristic / at 240 V tripping characteristic / of the let-through current characteristic / at 415 V tripping characteristic / of the let-through current characteristic / at 690 V Ground fault protection / tripping switchable / I2t=ON/OFF No Mechanical Design product component • undervoltage release O A AK_3VA5_1_40A_TM120M2_H_oT DE_3VA5_1_40A_TM_line u starter_3u4p_415V DS_3VA5_1_40A_TM_line u starter_3u4p_240V DS_3VA5_1_40A_TM_line u starter_3u4p_415V DS_3VA5_1_40A_TM_line u starter_3u4p_690V No				
adjustable absolute value setting current (InN) / for N- tripping / maximum tripping characteristic / of the upper tolerance band let-through energy characteristic / at 240 V let-through energy characteristic / at 415 V let-through energy characteristic / at 690 V type of value list setting current (li) / for I-tripping tripping characteristic / of the let-through current characteristic / at 240 V tripping characteristic / of the let-through current characteristic / at 415 V tripping characteristic / of the let-through current characteristic / at 415 V tripping characteristic / of the let-through current characteristic / of the l	adjustable absolute value setting current (InN) / for N-			
tripping characteristic / of the upper tolerance band let-through energy characteristic / at 240 V let-through energy characteristic / at 415 V let-through energy characteristic / at 690 V type of value list setting current (Ii) / for I-tripping tripping characteristic / of the let-through current characteristic / at 240 V tripping characteristic / of the let-through current characteristic / at 415 V tripping characteristic / of the let-through current characteristic / at 415 V Ground fault protection / tripping switchable / I2t=ON/OFF Mechanical Design product component undervoltage release AK_3VA5_1_40A_TM1line u starter_3u4p_240V DE_3VA5_1_40A_TM_line u starter_3u4p_690V St DS_3VA5_1_40A_TM_line u starter_3u4p_240V DS_3VA5_1_40A_TM_line u starter_3u4p_415V DS_3VA5_1_40A_TM_line u starter_3u4p_690V No	adjustable absolute value setting current (InN) / for N-	0 A		
let-through energy characteristic / at 240 V let-through energy characteristic / at 415 V let-through energy characteristic / at 415 V let-through energy characteristic / at 690 V let-through energy energy at 415 V let-through		AK 2\/AE 1 40A TM420M2 LL aT		
let-through energy characteristic / at 415 V let-through energy characteristic / at 690 V type of value list setting current (li) / for I-tripping tripping characteristic / of the let-through current characteristic / at 240 V tripping characteristic / of the let-through current characteristic / at 415 V tripping characteristic / of the let-through current characteristic / at 690 V Ground fault protection / tripping switchable / I2t=ON/OFF Mechanical Design product component • undervoltage release DE_3VA5_1_40A_TM_line u starter_3u4p_690V DS_3VA5_1_40A_TM_line u starter_3u4p_690V No				
let-through energy characteristic / at 690 V type of value list setting current (Ii) / for I-tripping tripping characteristic / of the let-through current characteristic / at 240 V tripping characteristic / of the let-through current characteristic / at 415 V tripping characteristic / of the let-through current characteristic / at 690 V Ground fault protection / tripping switchable / I2t=ON/OFF Mechanical Design product component • undervoltage release DE_3VA5_1_40A_TM_line u starter_3u4p_415V DS_3VA5_1_40A_TM_line u starter_3u4p_690V No				
tripping characteristic / of the let-through current characteristic / at 240 V tripping characteristic / of the let-through current characteristic / at 415 V tripping characteristic / of the let-through current characteristic / of the let-through current characteristic / at 690 V Ground fault protection / tripping switchable / I2t=ON/OFF Mechanical Design product component • undervoltage release St DS_3VA5_1_40A_TM_line u starter_3u4p_240V DS_3VA5_1_40A_TM_line u starter_3u4p_415V DS_3VA5_1_40A_TM_line u starter_3u4p_690V No	3 37			
tripping characteristic / of the let-through current characteristic / at 240 V tripping characteristic / of the let-through current characteristic / at 415 V tripping characteristic / of the let-through current characteristic / of the let-through current characteristic / at 690 V Ground fault protection / tripping switchable / I2t=ON/OFF Mechanical Design product component • undervoltage release DS_3VA5_1_40A_TM_line u starter_3u4p_415V DS_3VA5_1_40A_TM_line u starter_3u4p_690V No	• •			
tripping characteristic / of the let-through current characteristic / at 415 V tripping characteristic / of the let-through current characteristic / of the let-through current characteristic / at 690 V Ground fault protection / tripping switchable / I2t=ON/OFF Mechanical Design product component • undervoltage release DS_3VA5_1_40A_TM_line u starter_3u4p_690V No	tripping characteristic / of the let-through current			
tripping characteristic / of the let-through current characteristic / at 690 V Ground fault protection / tripping switchable / I2t=ON/OFF No Mechanical Design product component • undervoltage release No	tripping characteristic / of the let-through current	DS_3VA5_1_40A_TM_line u starter_3u4p_415V		
Ground fault protection / tripping switchable / I2t=ON/OFF No Mechanical Design product component • undervoltage release No	tripping characteristic / of the let-through current	DS_3VA5_1_40A_TM_line u starter_3u4p_690V		
Mechanical Design product component • undervoltage release No		No		
product component ◆ undervoltage release No				
• undervoltage release No				
	·	No		
- rollage digger	voltage trigger	No		
• trip indicator No		No		
height [in] 5.51 in	height [in]	5.51 in		
Height 140 mm	Height	140 mm		

width [in]	3 in	3 in					
Type of connectable conductor cross-section, round	1 x (8	1 x (8 AWG - 3/0)					
conductor terminal, stranded							
Width	76.2	76.2 mm					
depth [in]	3.01	3.01 in					
depth	76.5	76.5 mm					
Connections							
arrangement of electrical connectors / for main current circuit	Fron	Front connection					
type of electrical connection / for main current circuit	circu	circular conductor terminal on both sides					
Auxiliary circuit							
number of CO contacts / for auxiliary contacts	0	0					
Accessories							
product extension / optional / motor drive	Yes	Yes					
Environmental conditions							
protection class IP / on the front	IP40	IP40					
ambient temperature							
during operation / minimum	-25 °	-25 °C					
 during operation / maximum 	70 °C	70 °C					
 during storage / minimum 	-40 °	-40 °C					
 during storage / maximum 	80 °C	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







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=3VA5140-1MU36-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5140-1MU36-0AA0

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

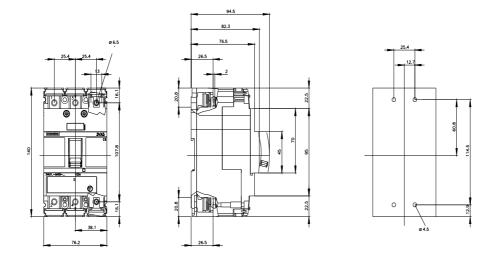
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5140-1MU36-0AA0

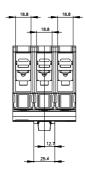
CAx-Online-Generator

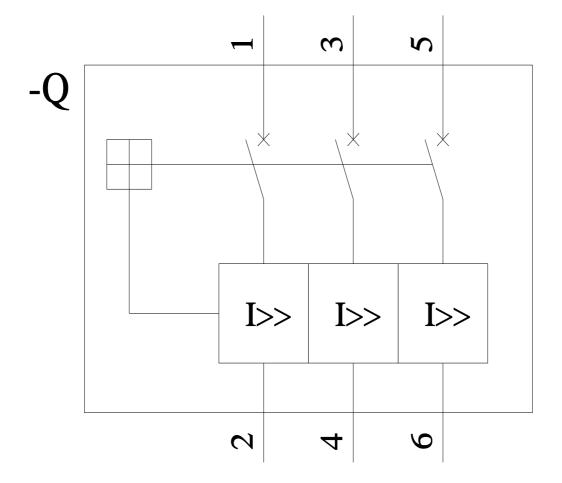
http://www.siemens.com/cax

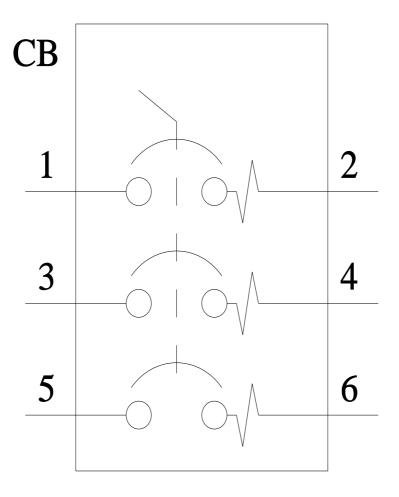
Tender specifications

http://www.siemens.com/specifications









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