## SIEMENS

## Data sheet

## 3VA1140-5MH36-0AA0

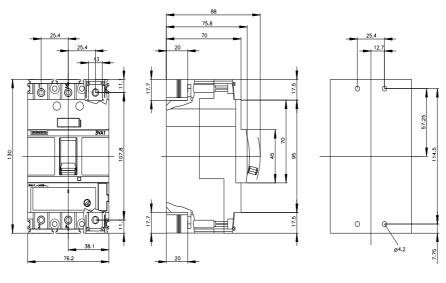


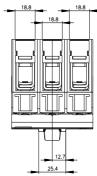
circuit breaker 3VA1 IEC frame 160 breaking capacity class M Icu=55kA @ 415V 3-pole, starter protection TM120M, AM, In=40A without overload protection short-circuit protection Ii=7...16 x In clamp connection

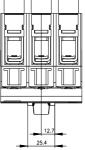
Model					
product brand name	SENTRON				
product designation	Molded case circuit breaker				
design of the product	Starter protection				
design of the overcurrent release	TM120M				
protection function of the overcurrent release	1				
number of poles	3				
General technical data					
insulation voltage / rated value	800 V				
operating voltage / at AC / rated value	690 V				
power loss [W] / maximum	10.8 W				
mechanical service life (operating cycles) / typical	20 000				
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	9 000				
electrical endurance (operating cycles) / at AC-1 / at 690 V	6 300				
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No				
ground-fault monitoring version	Without				
product function					
<ul> <li>communication function</li> </ul>	No				
<ul> <li>other measurement function</li> </ul>	No				
Net Weight	999 g				
Current					
operational current					
• at 40 °C	40 A				
• at 45 °C	40 A				
• at 50 °C	40 A				
● at 55 °C	39 A				
• at 60 °C	39 A				
• at 65 °C	38 A				
• at 70 °C	37 A				
Switching capacity according to IEC 60947					
switching capacity class of the circuit breaker	M				
maximum short-circuit current breaking capacity (Icu)					
• at 240 V	85 kA				
● at 415 V	55 kA				
• at 440 V	36 kA				
• at 500 V	5 kA				
• at 690 V	5 kA				
<ul> <li>at 690 V</li> <li>operating short-circuit current breaking capacity (lcs)</li> <li>at 240 V</li> </ul>	5 kA				

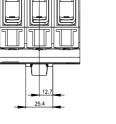
<ul> <li>at 415 V</li> <li>at 440 V</li> <li>at 500 V</li> <li>at 690 V</li> <li>short-circuit current making capacity (Icm)</li> </ul>	55 kA 36 kA 5 kA
• at 500 V • at 690 V	
• at 690 V	5 kA
short-circuit current making capacity (Icm)	5 kA
5 1 9 ( )	
• at 240 V	187 kA
• at 415 V	121 kA
• at 440 V	75.6 kA
• at 500 V	7.5 kA
• at 690 V	7.5 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
djustable parameters	
adjustable response value setting current (li) / for I-tripping	
• minimum	280 A
• maximum	640 A
adjustable setting current (InN) / for N-tripping	
• minimum	0 A
• maximum	0 A
product function / grounding protection	No
lechanical Design	
product component	
undervoltage release	No
voltage trigger	No
• trip indicator	No
height [in]	5.12 in
height	130 mm
width [in]	3 in
type of connectable conductor cross-sections / of the round conductor terminal / stranded	1 x (1,5 - 70 mm²)
width	76.2 mm
depth [in]	2.76 in
depth	70 mm
Connections	
arrangement of electrical connectors / for main current circuit	Front terminal
type of electrical connection / for main current circuit	box terminal on both sides
design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)	Silver
design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) $% \left( 1, 2, 2, 3, 6 \right)$	Tin
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
ccessories	
product extension / optional / motor drive	Yes
Invironmental 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	
	Q
reference code / according to IEC 81346-2	

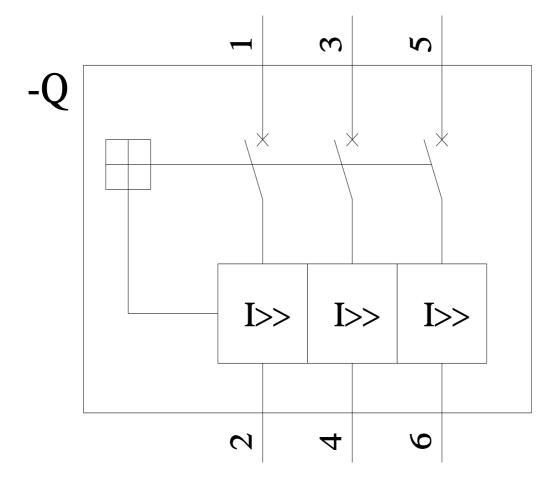
EMC	Declaration of Conformity		Test Certificates			
RCM	CE EG-Konf.	UK CA	Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	<u>Miscellaneous</u>	
Marine / Shipping	3		other			
B U REAU VERITAS		<u>CCS / China Classific-</u> ation Society	<u>Miscellaneous</u>	<u>Confirmation</u>	<u>Miscellaneous</u>	
Environment						
urther information		rket (see here).				
Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,) http://www.siemens.com/lowvoltage/catalogs						
https://mall.industr Service&Support	line ordering system) y.siemens.com/mall/en/en/Ca (Manuals, Certificates, Cha ustry.siemens.com/cs/ww/en/	aracteristics, FAQs,)	<u>40-5MH36-0AA0</u>			
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