## **SIEMENS**

## **Data sheet**



circuit breaker 3VM1 IEC frame 160 breaking capacity class N Icu=25kA @ 415V 3-pole, line protection TM220, ATFM, In=40A overload protection Ir=28A...40A short-circuit protection li=10 x In nut keeper kit

Model				
product brand name	SENTRON			
product designation	Molded case circuit breaker			
Product version	Line protection			
design of the overcurrent release	TM220			
protection function of the overcurrent release	Ц			
number of poles	3			
General technical data				
rated insulation voltage Ui	800 V			
Max. rated operational voltage Ue with AC 50/60Hz	500 V			
Max. rated operational voltage Ue with DC	500 V			
operating voltage / at AC / rated value	690 V			
power loss [W] / maximum	11 W			
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	3.6 W			
mechanical service life (switching cycles) / typical	15 000			
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	6 000			
Neutral conductors / upgradeable/retrofittable	No			
ground-fault monitoring version	Without			
product function				
<ul> <li>communication function</li> </ul>	No			
other measurement function	No			
Net Weight	970 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	N			
breaking capacity maximum short-circuit current (Icu)				
• at 240 V	36 kA			
● at 415 V	25 kA			
• at 440 V	16 kA			
● at 500 V	7 kA			

General Product Approval		Conformity
reference code / according to IEC 81346-2	Q	Declaration of
ertificates	0	
during storage / maximum	80 °C	
during storage / minimum	-40 °C	
during operation / maximum	70 °C	
during operation / minimum	-25 °C	
ambient temperature		
protection class IP / on the front	IP40	
nvironmental conditions		
product extension / optional / motor drive	No	
ccessories		
number of CO contacts / for auxiliary contacts	0	
• trip indicator	No	
voltage trigger	No	
undervoltage release	No	
product component		
uxiliary circuit		
of the switch (N, 2, 4, 6)		
the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom	Tin	
circuit design of the surface / of the connections / on the top of	Silver	
arrangement of electrical connectors / for main current	Front connection	
onnections		
depth	70 mm	
depth [in]	2.76 in	
Mdth [กา]	76.2 mm	
width [in]	3 in	
Height	130 mm	
height [in]	5.12 in	
echanical Design		
Ground fault protection / tripping switchable / I2t=ON/OFF	No	
Adjustable response value current / li max.	400 A	
djustable parameters		
design of short-circuit protection	For switching capacity values in DC power systems Molded Case Circuit Breaker Manual; link available Support in the last chapter	
● at 500 V	12 kA	
● at 440 V	32 kA	
● at 415 V	53 kA	
● at 240 V	76 kA	
short-circuit current making capacity (Icm)		
● at 500 V	5 kA	
● at 440 V	12 kA	
• at 415 V	18 kA	
● at 240 V	27 kA	

Confirmation





Miscellaneous



Declaration of Conformity

Test Certificates Marine / Shipping













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=3VM1140-3EE32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VM1140-3EE32-0AA0

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VM1140-3EE32-0AA0

**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications

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