## **SIEMENS**

## **Data sheet**



circuit breaker 3VM1 IEC frame 160 breaking capacity class N Icu=25kA @ 415V 3-pole, line protection TM220, ATFM, In=100A overload protection Ir=70A...100A short-circuit protection Ii=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	25 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	8.33 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	927 g
Current	
operational current	
• at 40 °C	100 A
● at 45 °C	100 A
● at 50 °C	100 A
• at 55 °C	98 A
• at 60 °C	96 A
• at 65 °C	94 A
• at 70 °C	91 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
Certificates	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	
invironmental conditions		
product extension / optional / motor drive	No	
accessories		
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	
design of the surface / of the connections / on the top of	Silver	
arrangement of electrical connectors / for main current circuit	Front connection	
Connections		
depth	70 mm	
depth [in]	2.76 in	
Width	76.2 mm	
width [in]	3 in	
Height	130 mm	
height [in]	5.12 in	
lechanical Design		
Ground fault protection / tripping switchable / I2t=ON/OFF	No	
Adjustable response value current / li max.	1 000 A	
Adjustable 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 (lcm)		
● 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













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=3VM1110-3EE32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VM1110-3EE32-0AA0

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VM1110-3EE32-0AA0

**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications

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