## 3VM1110-3EE32-0AA0

**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
design of the product	Line protection
design of the overcurrent release	TM220
protection function of the overcurrent release	LI
number of poles	3
General technical data	
insulation voltage / rated value	800 V
operating voltage / at AC / at 50/60 Hz / rated value	500 V
operating voltage / at DC / rated value	500 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	25 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	8.33 W
mechanical service life (operating cycles) / typical	15 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	6 000
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	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
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	36 kA
• at 415 V	25 kA
• at 440 V	16 kA
• at 500 V	7 kA
operating short-circuit current breaking capacity (Ics)	

● at 240 V	27 kA
• at 415 V	18 kA
● at 440 V	12 kA
● at 500 V	5 kA
short-circuit current making capacity (lcm)	
• at 240 V	76 kA
● at 415 V	53 kA
• at 440 V	32 kA
• at 500 V	12 kA
design of short-circuit protection	For switching capacity values in DC power systems, see the 3VA Molded Case
design of enough protection	Circuit Breaker Manual; link available under Service & Support in the last chapter
Adjustable parameters	
product feature / for L-tripping / can be switched on/off	No
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
• minimum	70 A
• maximum	100 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	1 s
• maximum	1s
adjustable response value setting current (li) / for I-tripping	
• minimum	1 000 A
• maximum	1 000 A
adjustable setting current (InN) / for N-tripping	
• minimum	0 A
• maximum	0 A
adjustable current response value current / of instantaneous short-circuit trip unit	
<ul><li>maximum</li></ul>	1 000 A
product function / grounding protection	No
product function / grounding protection  Mechanical Design	No
	No
Mechanical Design	No No
Mechanical Design product component	
Mechanical Design  product component  • undervoltage release	No
Mechanical Design  product component  • undervoltage release  • voltage trigger	No No
Mechanical Design  product component  • undervoltage release  • voltage trigger  • trip indicator	No No No
Mechanical Design  product component  • undervoltage release  • voltage trigger  • trip indicator  height [in]	No No No 5.12 in
Mechanical Design  product component  • undervoltage release  • voltage trigger  • trip indicator  height [in]  height	No No No 5.12 in 130 mm
Mechanical Design  product component  • undervoltage release  • voltage trigger  • trip indicator  height [in]  height  width [in]	No No No 5.12 in 130 mm
Mechanical Design  product component  • undervoltage release  • voltage trigger  • trip indicator  height [in]  height  width [in]	No No No 5.12 in 130 mm 3 in 76.2 mm
Mechanical Design  product component  • undervoltage release  • voltage trigger  • trip indicator  height [in]  height  width [in]  width  depth [in]	No No No 5.12 in 130 mm 3 in 76.2 mm 2.76 in
Mechanical Design  product component  • undervoltage release  • voltage trigger  • trip indicator  height [in]  height  width [in]  width  depth [in]  depth	No No No 5.12 in 130 mm 3 in 76.2 mm 2.76 in
Mechanical Design  product component  • undervoltage release  • voltage trigger  • trip indicator  height [in]  height  width [in]  width  depth [in]  depth  Connections	No No No S.12 in 130 mm 3 in 76.2 mm 2.76 in 70 mm
Mechanical Design  product component  • undervoltage release  • voltage trigger  • trip indicator  height [in]  height  width [in]  width  depth [in]  depth  Connections  arrangement of electrical connectors / for main current circuit	No No No 5.12 in 130 mm 3 in 76.2 mm 2.76 in 70 mm
mechanical Design  product component  undervoltage release  voltage trigger  trip indicator  height [in]  height  width [in]  width  depth [in]  depth  Connections  arrangement of electrical connectors / for main current circuit  type of connectable conductor cross-sections / for flat-bar	No No No 5.12 in 130 mm 3 in 76.2 mm 2.76 in 70 mm  Front connection nut keeper kit on both ends
product component	No No No 5.12 in 130 mm 3 in 76.2 mm 2.76 in 70 mm  Front connection nut keeper kit on both ends 12 x 1 mm
product component	No No No 5.12 in 130 mm 3 in 76.2 mm 2.76 in 70 mm  Front connection nut keeper kit on both ends 12 x 1 mm  17 x 6.5 mm
product component	No No No 5.12 in 130 mm 3 in 76.2 mm 2.76 in 70 mm  Front connection nut keeper kit on both ends 12 x 1 mm  17 x 6.5 mm  Silver
product component	No No No 5.12 in 130 mm 3 in 76.2 mm 2.76 in 70 mm  Front connection nut keeper kit on both ends 12 x 1 mm  17 x 6.5 mm  Silver
product component	No No No S.12 in 130 mm 3 in 76.2 mm 2.76 in 70 mm  Front connection nut keeper kit on both ends 12 x 1 mm  17 x 6.5 mm  Silver  Tin
product component	No No No S.12 in 130 mm 3 in 76.2 mm 2.76 in 70 mm  Front connection nut keeper kit on both ends 12 x 1 mm  17 x 6.5 mm  Silver  Tin
product component	No No No Solution 130 mm 3 in 76.2 mm 2.76 in 70 mm  Front connection nut keeper kit on both ends 12 x 1 mm  17 x 6.5 mm  Silver  Tin
product component	No No No S.12 in 130 mm 3 in 76.2 mm 2.76 in 70 mm  Front connection nut keeper kit on both ends 12 x 1 mm  17 x 6.5 mm  Silver  Tin
product component	No No No S.12 in 130 mm 3 in 76.2 mm 2.76 in 70 mm  Front connection nut keeper kit on both ends 12 x 1 mm  17 x 6.5 mm  Silver  Tin
product component	No No No S.12 in 130 mm 3 in 76.2 mm 2.76 in 70 mm  Front connection nut keeper kit on both ends 12 x 1 mm  17 x 6.5 mm  Silver  Tin
product component	No No No S.12 in 130 mm 3 in 76.2 mm 2.76 in 70 mm  Front connection nut keeper kit on both ends 12 x 1 mm  17 x 6.5 mm  Silver  Tin

• during storage / minimum

-40 °C 80 °C

during storage / maximum

## Approvals / Certificates

## **General Product Approval**





Confirmation





Miscellaneous

General Product Approval

**Test Certificates** 

Marine / Shipping



**Miscellaneous** 









Marine / Shipping

other

Environment



Confirmation

**Miscellaneous** 

Environmental Confirmations Environmental Confirmations

## Further information

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

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

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

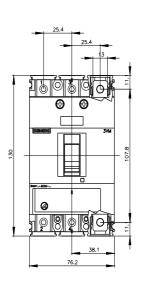
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VM1110-3EE32-0AA0

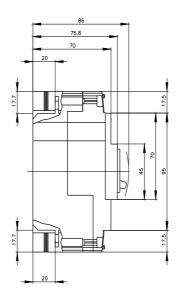
**CAx-Online-Generator** 

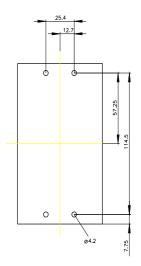
http://www.siemens.com/cax

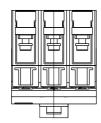
**Tender specifications** 

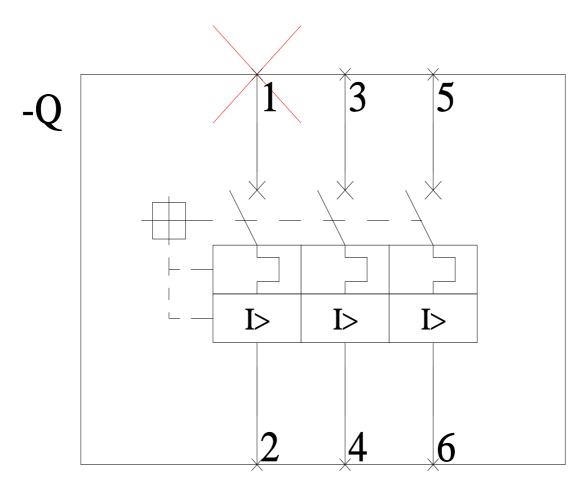
http://www.siemens.com/specifications











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