3VM1220-4ED32-0AA0





circuit breaker 3VM1 IEC frame 250 breaking capacity class S Icu=36kA @ 415V 3-pole, line protection TM210, FTFM, In=200A overload protection Ir=200A, not adjustable 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	TM210
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	42 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	14 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	
 communication function 	No
 other measurement function 	No
Net Weight	1.597 kg
Current	
operational current	
• at 40 °C	200 A
• at 45 °C	200 A
● at 50 °C	200 A
● at 55 °C	194 A
• at 60 °C	188 A
• at 65 °C	182 A
● at 70 °C	176 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	S
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	55 kA
• at 415 V	36 kA
• at 440 V	25 kA
● at 500 V	10 kA
operating short-circuit current breaking capacity (lcs)	

● at 240 V	41 kA
● at 415 V	27 kA
● at 440 V	18 kA
● at 500 V	7 kA
short-circuit current making capacity (Icm)	
● at 240 V	121 kA
● at 415 V	76 kA
● at 440 V	53 kA
● at 500 V	17 kA
design of short-circuit protection	For switching capacity values in DC power systems, see the 3VA Molded Case
·	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	200 A
• maximum	200 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	2 000 A
• maximum	2 000 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	
maximum	2 000 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 6.22 in
Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height	No No No 6.22 in 158 mm
Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height width [in]	No No No 6.22 in 158 mm 4.13 in
Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height width [in]	No No No 6.22 in 158 mm 4.13 in
Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height width [in] width depth [in]	No No No 6.22 in 158 mm 4.13 in 105 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 6.22 in 158 mm 4.13 in 105 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 6.22 in 158 mm 4.13 in 105 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 6.22 in 158 mm 4.13 in 105 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 6.22 in 158 mm 4.13 in 105 mm 2.76 in 70 mm Front connection nut keeper kit on both ends
product component	No No No 6.22 in 158 mm 4.13 in 105 mm 2.76 in 70 mm Front connection nut keeper kit on both ends 13 x 1 mm
product component	No No No 6.22 in 158 mm 4.13 in 105 mm 2.76 in 70 mm Front connection nut keeper kit on both ends 13 x 1 mm 25 x 8 mm
product component	No No No 6.22 in 158 mm 4.13 in 105 mm 2.76 in 70 mm Front connection nut keeper kit on both ends 13 x 1 mm 25 x 8 mm Silver
product component	No No No 6.22 in 158 mm 4.13 in 105 mm 2.76 in 70 mm Front connection nut keeper kit on both ends 13 x 1 mm 25 x 8 mm Silver
product component	No No No 6.22 in 158 mm 4.13 in 105 mm 2.76 in 70 mm Front connection nut keeper kit on both ends 13 x 1 mm 25 x 8 mm Silver Silver
product component	No No No 6.22 in 158 mm 4.13 in 105 mm 2.76 in 70 mm Front connection nut keeper kit on both ends 13 x 1 mm 25 x 8 mm Silver Silver
product component	No No No 6.22 in 158 mm 4.13 in 105 mm 2.76 in 70 mm Front connection nut keeper kit on both ends 13 x 1 mm 25 x 8 mm Silver Silver
product component	No No No 6.22 in 158 mm 4.13 in 105 mm 2.76 in 70 mm Front connection nut keeper kit on both ends 13 x 1 mm 25 x 8 mm Silver Silver
product component	No No No 6.22 in 158 mm 4.13 in 105 mm 2.76 in 70 mm Front connection nut keeper kit on both ends 13 x 1 mm 25 x 8 mm Silver Silver
product component	No No No 6.22 in 158 mm 4.13 in 105 mm 2.76 in 70 mm Front connection nut keeper kit on both ends 13 x 1 mm 25 x 8 mm Silver O No
product component	No No No 6.22 in 158 mm 4.13 in 105 mm 2.76 in 70 mm Front connection nut keeper kit on both ends 13 x 1 mm 25 x 8 mm Silver Silver

during storage / minimumduring storage / maximum

-40 °C 80 °C

Approvals / Certificates

General Product Approval





Confirmation







General Product Approval

Test Certificates

Marine / Shipping

Miscellaneous



Miscellaneous







Marine / Shipping

other

Environment





Miscellaneous

Confirmation

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=3VM1220-4ED32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VM1220-4ED32-0AA0

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

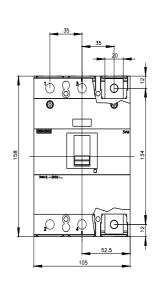
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VM1220-4ED32-0AA0

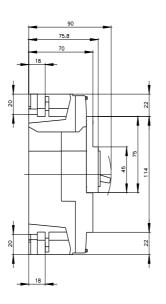
CAx-Online-Generator

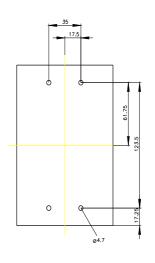
http://www.siemens.com/cax

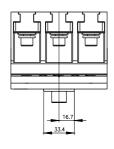
Tender specifications

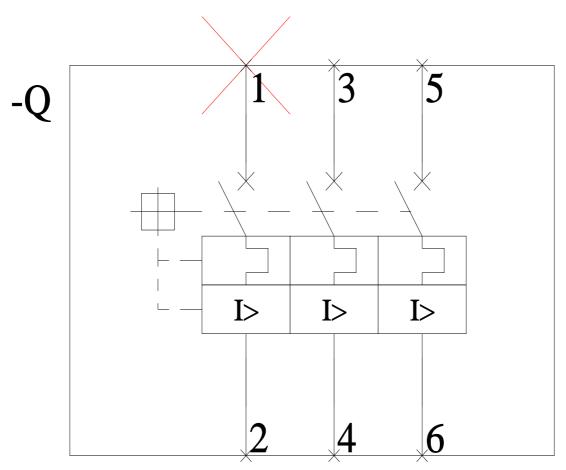
http://www.siemens.com/specifications











last modified: 11/29/2023 🖸

