## SIEMENS

## Data sheet

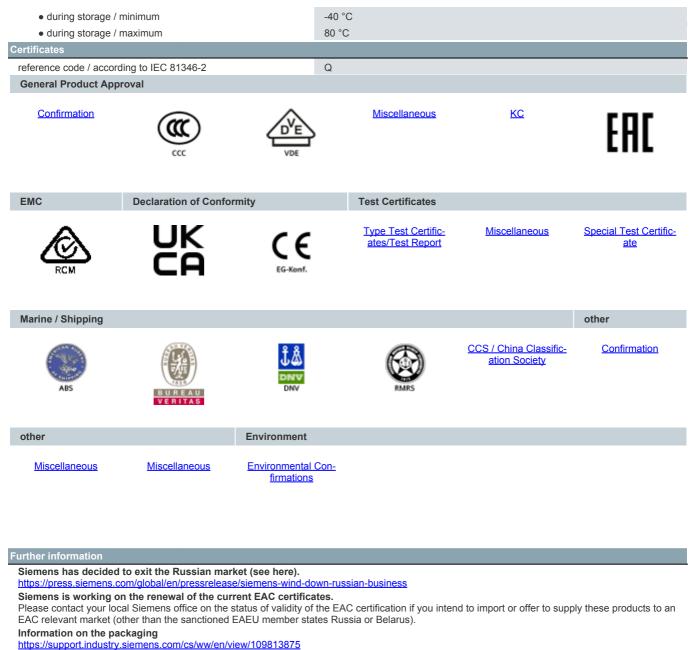
## 3VA1112-4FF42-0AA0



circuit breaker 3VA1 IEC frame 160 breaking capacity class S Icu=36kA @ 415V 4-pole, line protection TM240, ATAM, In=125A overload protection Ir=88A...125A short-circuit protection Ii=5...10 x In N conductor protection 50% nut keeper kit

SENTRON
Molded case circuit breaker
Line protection
TM240
LI
4
800 V
600 V
690 V
28.1 W
20 000
9 000
6 300
No
Without
No
No
1.2 kg
125 A
125 A
125 A
122 A
120 A
117 A
114 A
S
55 kA
36 kA
25 kA
7 kA

• at 240 V	55 kA
• at 415 V	36 kA
• at 440 V	25 kA
• at 500 V	5 kA
• at 690 V	5 kA
short-circuit current making capacity (Icm)	
• at 240 V	121 kA
• at 415 V	75.6 kA
• at 440 V	52.5 kA
• at 500 V	11.9 kA
• at 690 V	11.9 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
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	00 A
• minimum	88 A
• maximum	125 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	1s
• maximum	1 s
adjustable response value setting current (li) / for I-tripping	
• minimum	625 A
• maximum	1 250 A
adjustable setting current (InN) / for N-tripping	
• minimum	62 A
• maximum	62 A
design of the N-conductor protection	50%
product function / grounding protection	No
Mechanical Design	
Mechanical Design product component	
	No
product component	No No
product component <ul> <li>undervoltage release</li> </ul>	
product component <ul> <li>undervoltage release</li> <li>voltage trigger</li> </ul>	No
product component <ul> <li>undervoltage release</li> <li>voltage trigger</li> <li>trip indicator</li> </ul>	No No
product component • undervoltage release • voltage trigger • trip indicator height [in]	No No 5.12 in
product component <ul> <li>undervoltage release</li> <li>voltage trigger</li> <li>trip indicator</li> </ul> <li>height [in] <ul> <li>height</li> </ul></li>	No No 5.12 in 130 mm
product component • undervoltage release • voltage trigger • trip indicator height [in] height width [in]	No No 5.12 in 130 mm 4 in
product component <ul> <li>undervoltage release</li> <li>voltage trigger</li> <li>trip indicator</li> </ul> <li>height [in] <ul> <li>height</li> <li>width [in]</li> <li>width</li> </ul></li>	No No 5.12 in 130 mm 4 in 101.6 mm
product component  • undervoltage release  • voltage trigger  • trip indicator  height [in]  width [in]  width depth [in]	No No 5.12 in 130 mm 4 in 101.6 mm 2.76 in
product component  • undervoltage release  • voltage trigger  • trip indicator  height [in]  height width [in] width depth [in] depth	No No 5.12 in 130 mm 4 in 101.6 mm 2.76 in
product component	No No 5.12 in 130 mm 4 in 101.6 mm 2.76 in 70 mm
product component	No         No         5.12 in         130 mm         4 in         101.6 mm         2.76 in         70 mm         Front terminal
product component  undervoltage release  voltage trigger  trip indicator  height [in]  height  width  depth  Connections  arrangement of electrical connectors / for main current circuit  type of electrical connection / for main current circuit  type of connectable conductor cross-sections / for flat-bar  type of connectable conductor cross-sections / for flat-bar	No No 5.12 in 130 mm 4 in 101.6 mm 2.76 in 70 mm Front terminal nut keeper kit on both ends
product component         • undervoltage release         • voltage trigger         • trip indicator         height [in]         height         width         depth [in]         depth         Connections         arrangement of electrical connectors / for main current circuit         type of electrical connection / for main current circuit         type of connectable conductor cross-sections / for flat-bar         terminal connection / minimum         type of connectable conductor cross-sections / for flat-bar         terminal connection / maximum         design of the surface / of the connections / on the top of the	No No 5.12 in 130 mm 4 in 101.6 mm 2.76 in 70 mm Front terminal nut keeper kit on both ends 12 x 1 mm
product component	No         No         5.12 in         130 mm         4 in         101.6 mm         2.76 in         70 mm
product component	No         No         5.12 in         130 mm         4 in         101.6 mm         2.76 in         70 mm
product component         • undervoltage release         • voltage trigger         • trip indicator         height [in]         height         width         depth [in]         depth         Connections         arrangement of electrical connectors / for main current circuit         type of electrical connection / for main current circuit         type of connectable conductor cross-sections / for flat-bar         terminal connection / minimum         type of connectable conductor cross-sections / for flat-bar         terminal connection / maximum         design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)         design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)         Auxiliary circuit	No         S.12 in         130 mm         4 in         101.6 mm         2.76 in         70 mm         Front terminal         nut keeper kit on both ends         12 x 1 mm         17 x 6,5 mm         Silver         Tin
product component         • undervoltage release         • voltage trigger         • trip indicator         height [in]         height         width         depth [in]         depth         Connections         arrangement of electrical connectors / for main current circuit         type of electrical connection / for main current circuit         type of connectable conductor cross-sections / for flat-bar         terminal connection / minimum         type of connectable conductor cross-sections / for flat-bar         terminal connection / maximum         design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)         design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)         Auxiliary circuit         number of CO contacts / for auxiliary contacts	No         No         5.12 in         130 mm         4 in         101.6 mm         2.76 in         70 mm
product component         • undervoltage release         • voltage trigger         • trip indicator         height [in]         height         width         depth [in]         depth         Connections         arrangement of electrical connectors / for main current circuit         type of electrical connection / for main current circuit         type of connectable conductor cross-sections / for flat-bar terminal connection / minimum         type of connectable conductor cross-sections / for flat-bar terminal connection / maximum         design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)         design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)         Auxiliary circuit         number of CO contacts / for auxiliary contacts         Accessories	No         5.12 in         130 mm         4 in         101.6 mm         2.76 in         70 mm         Front terminal         nut keeper kit on both ends         12 x 1 mm         17 x 6,5 mm         Silver         Tin         0
product component         • undervoltage release         • voltage trigger         • trip indicator         height [in]         height         width         depth [in]         depth         Connections         arrangement of electrical connectors / for main current circuit         type of electrical connection / for main current circuit         type of connectable conductor cross-sections / for flat-bar terminal connection / minimum         type of connectable conductor cross-sections / for flat-bar terminal connection / maximum         design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)         design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)         Auxiliary circuit         number of CO contacts / for auxiliary contacts         Accessories         product extension / optional / motor drive	No         S.12 in         130 mm         4 in         101.6 mm         2.76 in         70 mm         Front terminal         nut keeper kit on both ends         12 x 1 mm         17 x 6,5 mm         Silver         Tin
product component         • undervoltage release         • voltage trigger         • trip indicator         height [in]         height         width         depth         Connections         arrangement of electrical connectors / for main current circuit         type of electrical connection / for main current circuit         type of connectable conductor cross-sections / for flat-bar         terminal connection / minimum         type of connectable conductor cross-sections / for flat-bar         terminal connection / minimum         type of connectable conductor cross-sections / for flat-bar         terminal connection / maximum         design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)         design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)         Auxiliary circuit         number of CO contacts / for auxiliary contacts         Accessories         product extension / optional / motor drive         Environmental conditions	No         S.12 in         130 mm         4 in         101.6 mm         2.76 in         70 mm         Front terminal         nut keeper kit on both ends         12 x 1 mm         17 x 6,5 mm         Silver         Tin         0         Yes
product component         • undervoltage release         • voltage trigger         • trip indicator         height [in]         height         width         depth         Connections         arrangement of electrical connectors / for main current circuit         type of electrical connection / for main current circuit         type of connectable conductor cross-sections / for flat-bar terminal connection / minimum         type of connectable conductor cross-sections / for flat-bar terminal connection / maximum         design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)         design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)         Auxiliary circuit         number of CO contacts / for auxiliary contacts         Accessories         product extension / optional / motor drive         Environmental conditions         protection class IP / on the front	No         5.12 in         130 mm         4 in         101.6 mm         2.76 in         70 mm         Front terminal         nut keeper kit on both ends         12 x 1 mm         17 x 6,5 mm         Silver         Tin         0
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 electrical connection / for main current circuit         type of connectable conductor cross-sections / for flat-bar         terminal connection / minimum         type of connectable conductor cross-sections / for flat-bar         terminal connection / maximum         design of the surface / of the connections / on the top of the         switch (N, 1, 3, 5)         design of the surface / of the connections / on the bottom of the         switch (N, 2, 4, 6)         Auxiliary circuit         number of CO contacts / for auxiliary contacts         Accessories         product extension / optional / motor drive         Environmental conditions         protection class IP / on the front         ambient temperature	No         No         5.12 in         130 mm         4 in         101.6 mm         2.76 in         70 mm         Front terminal         nut keeper kit on both ends         12 x 1 mm         17 x 6,5 mm         Silver         Tin         Ves         IP40
product component         • undervoltage release         • voltage trigger         • trip indicator         height [in]         height         width         depth         Connections         arrangement of electrical connectors / for main current circuit         type of electrical connection / for main current circuit         type of connectable conductor cross-sections / for flat-bar terminal connection / minimum         type of connectable conductor cross-sections / for flat-bar terminal connection / maximum         design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)         design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)         Auxiliary circuit         number of CO contacts / for auxiliary contacts         Accessories         product extension / optional / motor drive         Environmental conditions         protection class IP / on the front	No         S.12 in         130 mm         4 in         101.6 mm         2.76 in         70 mm         Front terminal         nut keeper kit on both ends         12 x 1 mm         17 x 6,5 mm         Silver         Tin         0         Yes



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=3VA1112-4FF42-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA1112-4FF42-0AA0

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

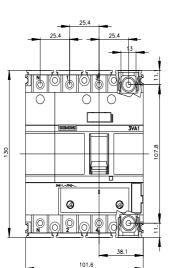
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA1112-4FF42-0AA0

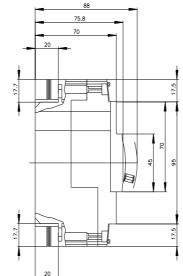
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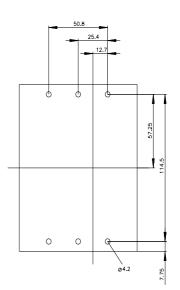
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Tender specifications

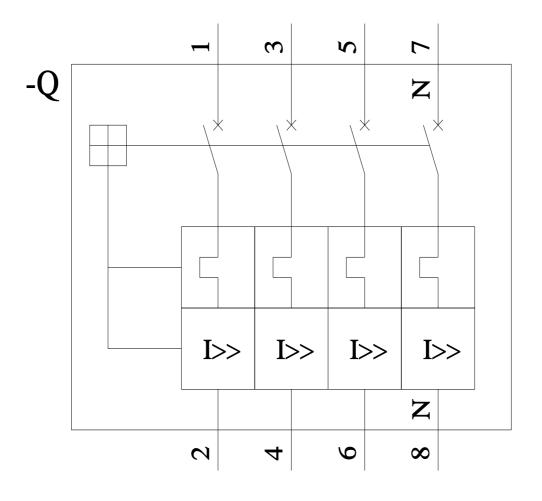
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