## SIEMENS

## Data sheet

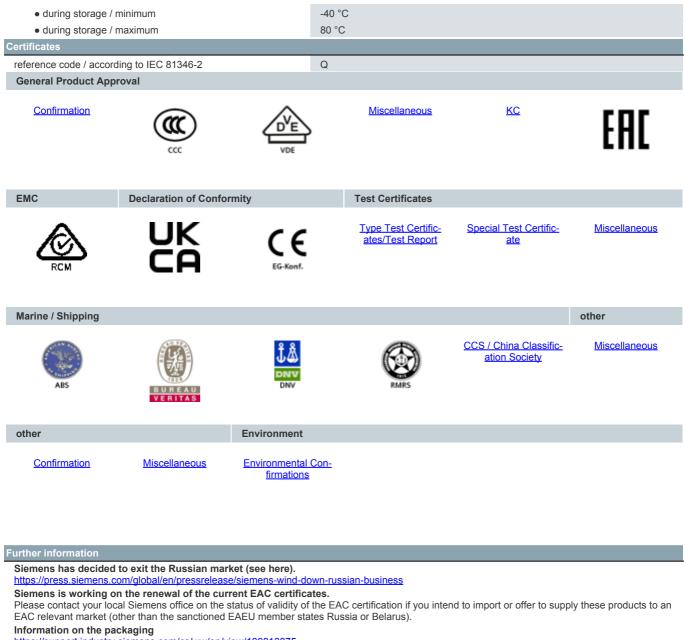
## 3VA1140-4EE42-0AA0



circuit breaker 3VA1 IEC frame 160 breaking capacity class S Icu=36kA @ 415V 4-pole, line protection TM220, ATFM, In=40A overload protection Ir=28A...40A short-circuit protection Ii=10 x In N conductor unprotected 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	4
General technical data	
insulation voltage / rated value	800 V
operating voltage / at DC / rated value	600 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	10.8 W
mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	9 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	6 300
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	1.187 kg
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	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	7 kA
• at 690 V	7 kA
operating short-circuit current breaking capacity (lcs)	

a at 240 V	EE LA
• 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	
• minimum	28 A
• maximum	40 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	1s
• maximum	1s
adjustable response value setting current (li) / for I-tripping	
• minimum	400 A
• maximum	400 A
adjustable setting current (InN) / for N-tripping	
• minimum	0 A
• maximum	0 A
design of the N-conductor protection	without
product function / grounding protection	No
Mechanical Design	
product component	
<ul><li>product component</li><li>undervoltage release</li></ul>	No
undervoltage release     voltage trigger	No No
undervoltage release	
undervoltage release     voltage trigger	No
<ul><li>undervoltage release</li><li>voltage trigger</li><li>trip indicator</li></ul>	No No
undervoltage release     voltage trigger     trip indicator height [in]	No No 5.12 in
undervoltage release     voltage trigger     trip indicator     height [in]     height	No No 5.12 in 130 mm
undervoltage release     voltage trigger     trip indicator     height [in]     height     width [in]	No No 5.12 in 130 mm 4 in
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
undervoltage release     voltage trigger     trip indicator     height [in]     height     width [in]     width     depth [in]	No No 5.12 in 130 mm 4 in 101.6 mm 2.76 in
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
undervoltage release     voltage trigger     trip indicator      height [in]      height     width [in]      width     depth [in]      depth      Connections	No No 5.12 in 130 mm 4 in 101.6 mm 2.76 in 70 mm
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         5.12 in         130 mm         4 in         101.6 mm         2.76 in         70 mm         Front terminal
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	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
• 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 connectable conductor cross-sections / for flat-bar	No No 5.12 in 130 mm 4 in 101.6 mm 2.76 in 2.76 in 70 mm Front terminal nut keeper kit on both ends 12 x 1 mm
• undervoltage release     • voltage trigger     • trip indicator      height [in]      height [in]      width [in]      width [in]      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
• undervoltage release     • voltage trigger     • trip indicator     height [in]     height [in]     width [in]     width [in]     depth [in]     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	No         No         5.12 in         130 mm         4 in         101.6 mm         2.76 in         70 mm
• undervoltage release     • voltage trigger     • trip indicator     height [in]     height [in]     height [in]     width [in]     width [in]     depth [in]     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)	No         No         5.12 in         130 mm         4 in         101.6 mm         2.76 in         70 mm
• undervoltage release     • voltage trigger     • trip indicator     height [in]     height [in]     height [in]     width [in]     width [in]     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 / 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         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
<ul> <li>undervoltage release</li> <li>voltage trigger</li> <li>trip indicator</li> <li>height [in]</li> <li>height</li> <li>width [in]</li> <li>width</li> <li>depth [in]</li> <li>depth</li> </ul> Connections <ul> <li>arrangement of electrical connectors / for main current circuit</li> <li>type of electrical connectors / for flat-bar</li> <li>terminal connection / minimum</li> <li>type of connectable conductor cross-sections / for flat-bar</li> <li>terminal connection / maximum</li> <li>design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)</li> <li>design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)</li> </ul>	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
• undervoltage release     • voltage trigger     • trip indicator     height [in]     height [in]     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	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
• undervoltage release     • voltage trigger     • trip indicator      height [in]      height [in]      width [in]      width [in]      depth [in]      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         0
<ul> <li>undervoltage release</li> <li>voltage trigger</li> <li>trip indicator</li> <li>height [in]</li> <li>height [in]</li> <li>width [in]</li> <li>width</li> <li>depth [in]</li> <li>depth</li> <li>Connections</li> <li>arrangement of electrical connectors / for main current circuit</li> <li>type of electrical connection / for main current circuit</li> <li>type of connectable conductor cross-sections / for flat-bar terminal connection / minimum</li> <li>type of connectable conductor cross-sections / for flat-bar terminal connection / minimum</li> <li>type of connectable conductor cross-sections / for flat-bar terminal connection / maximum</li> <li>design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)</li> <li>design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)</li> <li>Auxiliary circuit</li> <li>number of CO contacts / for auxiliary contacts</li> <li>Accessories</li> <li>product extension / optional / motor drive</li> <li>Environmental conditions</li> <li>protection class IP / on the front</li> </ul>	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         Yes
• undervoltage release     • voltage trigger     • trip indicator      height [in]      height [in]      width [in]      width [in]      width      depth [in]      depth      Connections      arrangement of electrical connectors / for main current circuit      type of electrical connectors / 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         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         Yes
<ul> <li>undervoltage release</li> <li>voltage trigger</li> <li>trip indicator</li> <li>height [in]</li> <li>height [in]</li> <li>width [in]</li> <li>width</li> <li>depth [in]</li> <li>depth</li> <li>Connections</li> <li>arrangement of electrical connectors / for main current circuit</li> <li>type of electrical connection / for main current circuit</li> <li>type of connectable conductor cross-sections / for flat-bar terminal connection / minimum</li> <li>type of connectable conductor cross-sections / for flat-bar terminal connection / minimum</li> <li>type of connectable conductor cross-sections / for flat-bar terminal connection / maximum</li> <li>design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)</li> <li>design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)</li> <li>Auxiliary circuit</li> <li>number of CO contacts / for auxiliary contacts</li> <li>Accessories</li> <li>product extension / optional / motor drive</li> <li>Environmental conditions</li> <li>protection class IP / on the front</li> </ul>	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



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=3VA1140-4EE42-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA1140-4EE42-0AA0

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

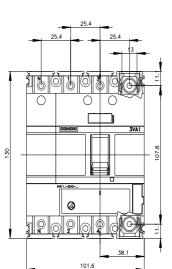
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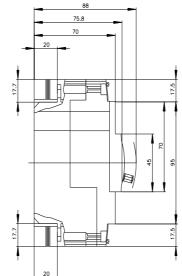
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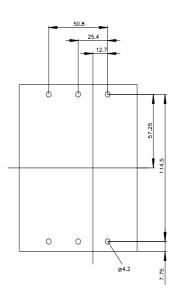
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Tender specifications

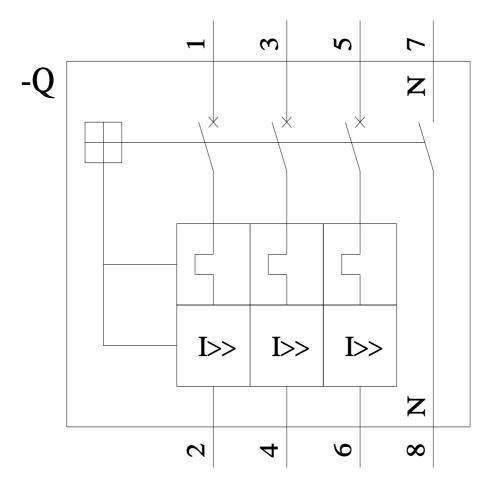
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