## SIEMENS

## Data sheet

## 3VA1080-3ED32-0AA0



circuit breaker 3VA1 IEC frame 100 breaking capacity class N Icu=25kA @ 415V 3-pole, line protection TM210, FTFM, In=80A overload protection Ir=80A fixed 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 DC / rated value	500 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	19.2 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	938 g
Current	
operational current	
• at 40 °C	80 A
● at 45 °C	80 A
● at 50 °C	80 A
• at 55 °C	78 A
• at 60 °C	77 A
• at 65 °C	75 A
• at 70 °C	74 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	Ν
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	5 kA
• at 690 V	5 kA
operating short-circuit current breaking capacity (lcs)	

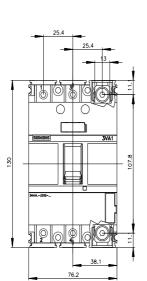
• at 240 V	36 kA
• at 415 V	25 kA
• at 440 V	16 kA
● at 500 V	5 kA
• at 690 V	5 kA
short-circuit current making capacity (Icm)	
• at 240 V	75.6 kA
● at 415 V	52.5 kA
• at 440 V	32 kA
● at 500 V	7.5 kA
• at 690 V	7.5 kA
design of short-circuit protection	For switching power values in DC networks, see 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	20 A
• minimum	80 A
maximum     adjustable response value delay time (tr) / for L_tripping / with 12t	80 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	1 s
• maximum	1 s
adjustable response value setting current (li) / for l-tripping	
• minimum	800 A
• maximum	800 A
adjustable setting current (InN) / for N-tripping	
• minimum	0 A
• maximum	0 A
product function / grounding protection	No
Mechanical Design	
product component	
<ul><li>product component</li><li>undervoltage release</li></ul>	No
	No
undervoltage release	
<ul><li>undervoltage release</li><li>voltage trigger</li></ul>	No
<ul> <li>undervoltage release</li> <li>voltage trigger</li> <li>trip indicator</li> </ul>	No No
<ul> <li>undervoltage release</li> <li>voltage trigger</li> <li>trip indicator</li> <li>height [in]</li> </ul>	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 3 in
undervoltage release     voltage trigger     trip indicator height [in] height width [in] width	No No 5.12 in 130 mm 3 in 76.2 mm
undervoltage release     voltage trigger     trip indicator      height [in]      height     width [in]      width     depth [in]	No No 5.12 in 130 mm 3 in 76.2 mm 2.76 in
undervoltage release     voltage trigger     trip indicator      height [in]      height     width [in]      width     depth [in]	No No 5.12 in 130 mm 3 in 76.2 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 3 in 76.2 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         3 in         76.2 mm         2.76 in         70 mm         Front terminal
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	No         No         5.12 in         130 mm         3 in         76.2 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)	No         No         5.12 in         130 mm         3 in         76.2 mm         2.76 in         70 mm         Front terminal         nut keeper kit on both ends         12 x 1 mm         17 x 6,5 mm         Silver
<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 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> </ul>	No         No         5.12 in         130 mm         3 in         76.2 mm         2.76 in         70 mm
<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> <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> </ul>	No         No         5.12 in         130 mm         3 in         76.2 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> <li>Connections</li> <li>arrangement of electrical connectors / for main current circuit</li> <li>type of electrical connector / 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 / 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> </ul>	No         No         5.12 in         130 mm         3 in         76.2 mm         2.76 in         70 mm         Front terminal         nut keeper kit on both ends         12 x 1 mm         17 x 6,5 mm         Silver
<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 / 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> </ul>	No         No         5.12 in         130 mm         3 in         76.2 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> </ul> Connections <ul> <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 / 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) Auxiliary circuit <ul> <li>number of CO contacts / for auxiliary contacts</li> <li>Accessories</li> <li>product extension / optional / motor drive</li> </ul></li></ul>	No         No         5.12 in         130 mm         3 in         76.2 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 [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</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> <li>Auxiliary circuit</li> <li>number of CO contacts / for auxiliary contacts</li> <li>Accessories</li> <li>product extension / optional / motor drive</li> </ul>	No         No         5.12 in         130 mm         3 in         76.2 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         No
<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 / 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         3 in         76.2 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]     height [in]     width [in]     width [in]     width [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 / 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         3 in         76.2 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         No         IP40
<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 [in]</li> <li>depth</li> <li>Connections</li> <li>arrangement of electrical connectors / for main current circuit</li> <li>type of electrical connectors / 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> <li>ambient temperature</li> <li>during operation / minimum</li> </ul>	No         No         5.12 in         130 mm         3 in         76.2 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         IP40         -25 °C
• undervoltage release     • voltage trigger     • trip indicator     height [in]     height [in]     height [in]     width [in]     width [in]     width [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 / 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         3 in         76.2 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         No         IP40

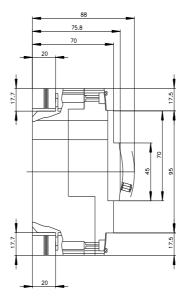
<ul> <li>during storage /</li> </ul>	maximum	80	C		
Certificates					
reference code / accor	ding to IEC 81346-2	Q			
General Product App	proval				EMC
CCC	<u>Confirmation</u>	UDE VDE	<u>Miscellaneous</u>	EAC	RCM
Declaration of Confo	ormity	Test Certificates			Marine / Shipping
CE EG-Konf.	UK CA	<u>Miscellaneous</u>	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS
Marine / Shipping				other	
BUREAU VERITAS		KMRS	<u>CCS / China Classific-</u> ation Society	<u>Confirmation</u>	<u>Miscellaneous</u>
other	Environment				
Miscellaneous	Environmental Con- firmations				

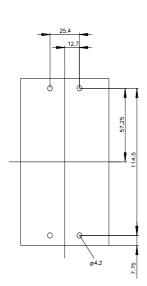
Further information	on
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Please contact y	king on the renewal of the current EAC certificates. our local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an rket (other than the sanctioned EAEU member states Russia or Belarus).
Information on the https://support.in	t <mark>he packaging</mark> dustry.siemens.com/cs/ww/en/view/109813875
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	(product images, 2D dimension drawings, 3D models, device circuit diagrams,) hation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1080-3ED32-0AA0

http://www.automati

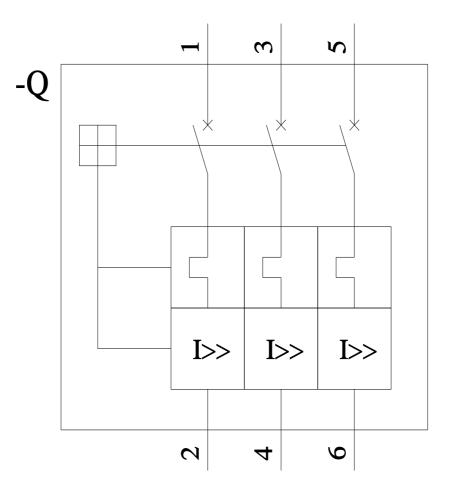
CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications







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