SIEMENS

Data sheet

3VA1140-4EE32-0AA0



circuit breaker 3VA1 IEC frame 160 breaking capacity class S Icu=36kA @ 415V 3-pole, line protection TM220, ATFM, In=40A overload protection Ir=28A...40A 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 DC / rated value	500 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				
 communication function 	No			
 other measurement function 	No			
Net Weight	940 g			
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)				

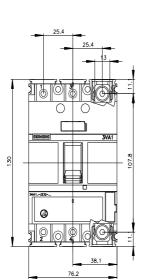
• at 240 V	55 kA			
• at 415 V	36 kA			
• at 440 V	25 kA			
● at 500 V	5 kA			
• at 690 V	5 kA			
short-circuit current making capacity (Icm)				
• at 240 V	121 kA			
• at 415 V	75.6 kA			
• at 440 V	52.5 kA			
• at 500 V	11.9 kA			
• at 690 V	11.9 kA			
design of short-circuit protection	For switching 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	400.4			
• minimum	400 A			
maximum	400 A			
adjustable setting current (InN) / for N-tripping	0.4			
• minimum				
maximum product function / grounding protection	0 A No			
Mechanical Design				
product component				
undervoltage release	No			
voltage trigger	No			
• trip indicator	No			
height [in]	5.12 in			
height [in]				
	5.12 in			
height	5.12 in 130 mm			
height width [in]	5.12 in 130 mm 3 in			
height width [in] width	5.12 in 130 mm 3 in 76.2 mm			
height width [in] width depth [in]	5.12 in 130 mm 3 in 76.2 mm 2.76 in			
height width [in] width depth [in] depth	5.12 in 130 mm 3 in 76.2 mm 2.76 in			
height width [in] width depth [in] depth Connections	5.12 in 130 mm 3 in 76.2 mm 2.76 in 70 mm			
height width [in] width depth [in] depth Connections arrangement of electrical connectors / for main current circuit	5.12 in 130 mm 3 in 76.2 mm 2.76 in 70 mm Front terminal			
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	5.12 in 130 mm 3 in 76.2 mm 2.76 in 70 mm Front terminal nut keeper kit on both ends			
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	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			
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 / 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	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			
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 / 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	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			
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)	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			
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	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			
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	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			
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	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			
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 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	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			
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	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			
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	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			
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	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 1P40			
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 • during operation / minimum	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 9 9 1940 -25 °C			

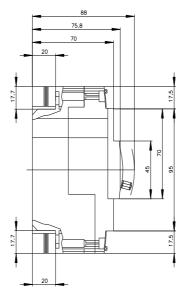
 during storage / r 	maximum	80 °C	;		
Certificates					
reference code / accord	ling to IEC 81346-2	Q			
General Product App	roval				
	<u>Confirmation</u>	UDE VDE	<u>Miscellaneous</u>	KC	EHC
EMC	Declaration of Confor	mity	Test Certificates		
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Marine / Shipping					other
ABS	BUREAU VERITAS		RMRS	<u>CCS / China Classific-</u> ation Society	Confirmation
other		Environment			
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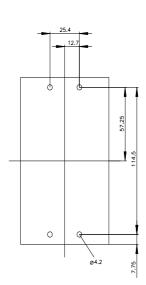
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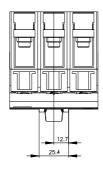
http://www.siemens.com/cax Tender specifications

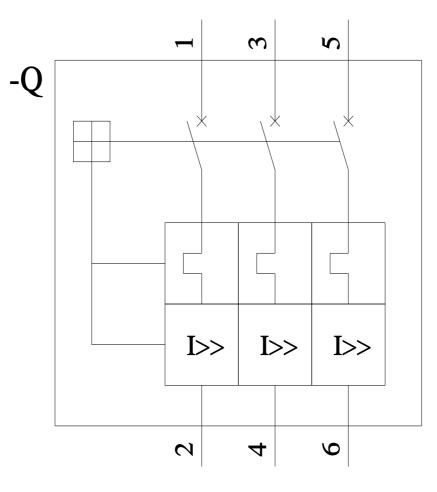
http://www.siemens.com/specifications











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