3VA1150-4EF36-0AA0

Data sheet



circuit breaker 3VA1 IEC frame 160 breaking capacity class S Icu=36kA @ 415V 3-pole, line protection TM240, ATAM, In=50A overload protection Ir=35A...50A short-circuit protection Ii=5...10 x In clamp connection

Model		
product brand name	SENTRON	
product designation	Molded case circuit breaker	
design of the product	Line protection	
design of the overcurrent release	TM240	
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	14.6 W	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	4.87 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	997 g	
Current		
operational current		
• at 40 °C	50 A	
• at 45 °C	50 A	
• at 50 °C	50 A	
• at 55 °C	49 A	
• at 60 °C	48 A	
• at 65 °C	46 A	
• at 70 °C	45 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 (Ics)	
• 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	35 A
• maximum	50 A
adjustable response value delay time (tr) / for L-tripping / with l2t characteristic	
• minimum	1 s
• maximum	1s
adjustable response value setting current (li) / for I-tripping	
• minimum	250 A
• maximum	500 A
adjustable setting current (InN) / for N-tripping	
• minimum	0 A
• maximum	0 A
	N
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 5.12 in
Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in]	No No No 5.12 in 130 mm
Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height width [in] type of connectable conductor cross-sections / of the round	No No No 5.12 in 130 mm 3 in
Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height width [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded	No No No 5.12 in 130 mm 3 in 1 x (1,5 - 70 mm²)
Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height width [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded width	No No No 5.12 in 130 mm 3 in 1 x (1,5 - 70 mm²)
mechanical Design product component undervoltage release voltage trigger trip indicator height [in] height width [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded width depth [in]	No No No 5.12 in 130 mm 3 in 1 x (1,5 - 70 mm²) 76.2 mm 2.76 in
mechanical Design product component undervoltage release voltage trigger trip indicator height [in] height width [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded width depth [in] depth	No No No 5.12 in 130 mm 3 in 1 x (1,5 - 70 mm²) 76.2 mm 2.76 in
Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height width [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded width depth [in] depth Connections	No No No S.12 in 130 mm 3 in 1 x (1,5 - 70 mm²) 76.2 mm 2.76 in 70 mm
Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height width [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded width depth [in] depth Connections arrangement of electrical connectors / for main current circuit	No No No 5.12 in 130 mm 3 in 1 x (1,5 - 70 mm²) 76.2 mm 2.76 in 70 mm
mechanical Design product component undervoltage release voltage trigger trip indicator height [in] height width [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded width depth [in] depth Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit design of the surface / of the connections / on the top of the	No No No 5.12 in 130 mm 3 in 1 x (1,5 - 70 mm²) 76.2 mm 2.76 in 70 mm Front terminal box terminal on both sides
mechanical Design product component undervoltage release voltage trigger trip indicator height [in] height width [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded width depth [in] depth Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit 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 No 5.12 in 130 mm 3 in 1 x (1,5 - 70 mm²) 76.2 mm 2.76 in 70 mm Front terminal box terminal on both sides Silver
product component • undervoltage release • voltage trigger • trip indicator height [in] height width [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded width depth [in] depth Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit 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 No 5.12 in 130 mm 3 in 1 x (1,5 - 70 mm²) 76.2 mm 2.76 in 70 mm Front terminal box terminal on both sides Silver
mechanical Design product component undervoltage release voltage trigger trip indicator height [in] height width [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded width depth [in] depth Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit 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 No S.12 in 130 mm 3 in 1 x (1,5 - 70 mm²) 76.2 mm 2.76 in 70 mm Front terminal box terminal on both sides Silver Tin
mechanical Design product component undervoltage release voltage trigger trip indicator height [in] height width [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded width depth [in] depth Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit 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 No S.12 in 130 mm 3 in 1 x (1,5 - 70 mm²) 76.2 mm 2.76 in 70 mm Front terminal box terminal on both sides Silver Tin
mechanical Design product component undervoltage release voltage trigger trip indicator height [in] height width [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded width depth [in] depth Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit 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 No No Solution 130 mm 3 in 1 x (1,5 - 70 mm²) 76.2 mm 2.76 in 70 mm Front terminal box terminal on both sides Silver Tin
mechanical Design product component undervoltage release voltage trigger trip indicator height [in] height width [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded width depth [in] depth Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit 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 No No Solution 130 mm 3 in 1 x (1,5 - 70 mm²) 76.2 mm 2.76 in 70 mm Front terminal box terminal on both sides Silver Tin
mechanical Design product component undervoltage release voltage trigger trip indicator height [in] height width [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded width depth [in] depth Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit 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 No No 5.12 in 130 mm 3 in 1 x (1,5 - 70 mm²) 76.2 mm 2.76 in 70 mm Front terminal box terminal on both sides Silver Tin 0
mechanical Design product component undervoltage release voltage trigger trip indicator height [in] height width [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded width depth [in] depth Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit 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 No No 5.12 in 130 mm 3 in 1 x (1,5 - 70 mm²) 76.2 mm 2.76 in 70 mm Front terminal box terminal on both sides Silver Tin 0
product component	No No S.12 in 130 mm 3 in 1 x (1,5 - 70 mm²) 76.2 mm 2.76 in 70 mm Front terminal box terminal on both sides Silver Tin O Yes
product component	No No Solution No No Solution No Solution No Solution No No No Solution No No No No Solution No

80 °C
Yes
190 kg
4.67 kg
186 kg
-0.826 kg
Q

Approvals / Certificates General Product Approval







Confirmation



Miscellaneous

Genera	Prod	luct A	Approva	I
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EMV

Test Certificates

<u>KC</u>





Special Test Certificate **Miscellaneous**

Type Test Certificates/Test Report

Marine / Shipping











CCS (China Classification Society)

other

Environment

Confirmation

Miscellaneous

Miscellaneous





Environmental Confirmations

Environment

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)

 $\underline{\text{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA1150-4EF36-0AA0}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA1150-4EF36-0AA0

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

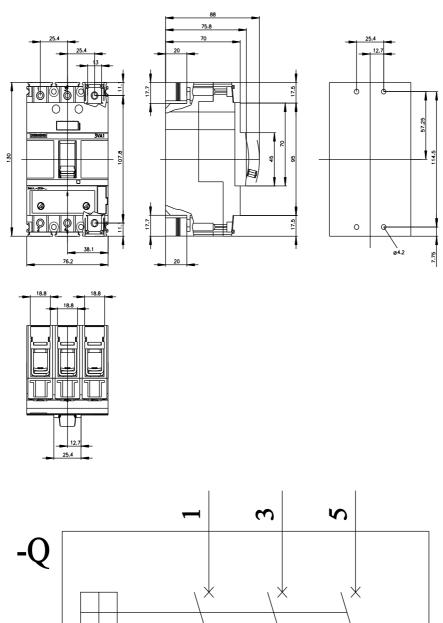
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1150-4EF36-0AA0

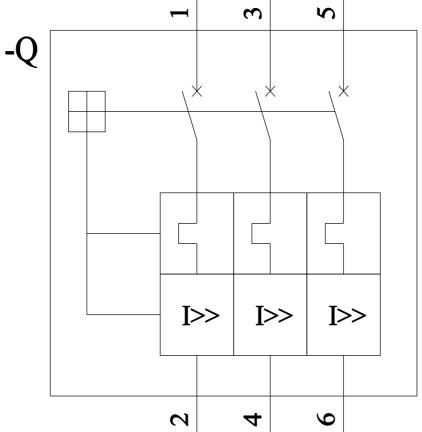
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





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