



circuit breaker 3VM1 IEC frame 160 breaking capacity class S Icu=36kA @ 240V 1-pole, line protection TM210, FTFM, In=50A overload protection Ir=50A, not adjustable short-circuit protection li=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	1
General technical data	
insulation voltage / rated value	500 V
operating voltage / at AC / at 50/60 Hz / rated value	415 V
operating voltage / at DC / rated value	125 V
operating voltage / at AC / rated value	415 V
power loss [W] / maximum	5 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	4.9 W
mechanical service life (operating cycles) / typical	15 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	6 000
product feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof	No
ground-fault monitoring version	Without
product function	
• communication function	No
• other measurement function	No
Net Weight	384 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	36 kA
• at 415 V	6 kA
operating short-circuit current breaking capacity (Ics)	
• at 240 V	27 kA
• at 415 V	4 kA

short-circuit current making capacity (Icm)		
<ul style="list-style-type: none">at 240 Vat 415 V	76 kA 9 kA	
design of short-circuit protection	For switching capacity values in DC power systems, see the 3VA Molded Case Circuit Breaker Manual; link available 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		
<ul style="list-style-type: none">minimummaximum	50 A 50 A	
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic		
<ul style="list-style-type: none">minimummaximum	1 s 1 s	
adjustable current response value current / of instantaneous short-circuit trip unit		
<ul style="list-style-type: none">maximum	500 A	
product function / grounding protection	No	
Mechanical Design		
product component		
<ul style="list-style-type: none">undervoltage releasevoltage triggertrip indicator	No No No	
height [in]	5.12 in	
height	130 mm	
width [in]	1 in	
width	25.4 mm	
depth [in]	2.76 in	
depth	70 mm	
Connections		
arrangement of electrical connectors / for main current circuit	Front connection	
type of electrical connection / for main current circuit	nut keeper kit on both ends	
type of connectable conductor cross-sections / for flat-bar terminal connection / minimum	12 x 1 mm	
type of connectable conductor cross-sections / for flat-bar terminal connection / maximum	17 x 6.5 mm	
design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)	Silver	
design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)	Tin	
Auxiliary circuit		
number of CO contacts / for auxiliary contacts	0	
Accessories		
product extension / optional / motor drive	No	
Environmental conditions		
protection class IP / on the front	IP40	
ambient temperature		
<ul style="list-style-type: none">during operation / minimumduring operation / maximumduring storage / minimumduring storage / maximum	-25 °C 70 °C -40 °C 80 °C	
Certificates		
reference code / according to IEC 81346-2	Q	
General Product Approval		Declaration of Conformity

[Confirmation](#)



[Miscellaneous](#)



Declaration of Conformity	Test Certificates	Marine / Shipping
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[Miscellaneous](#)



other	Environment
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[Miscellaneous](#)

[Confirmation](#)

[Environmental Confirmations](#)

Further information

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your 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 EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VM1150-4ED12-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VM1150-4ED12-0AA0>

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

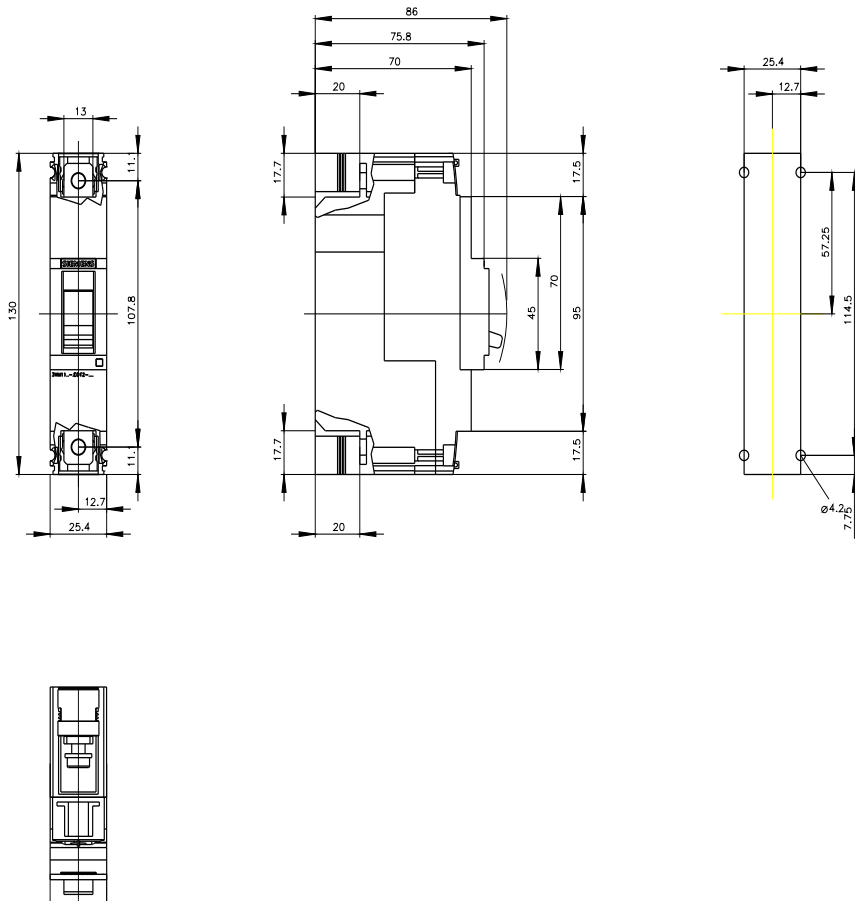
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VM1150-4ED12-0AA0

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>



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