



circuit breaker 3VA2 IEC Frame 1250 breaking capacity class M Icu=55 kA @ 415 V 4-pole line protection ETU320 LI In=1250 A overload protection Ir=500 A ...1250 A short-circuit protection Ii=15...10 x In neutral conductor protection adjustable (OFF/50%/100%) circuit breaker with straight bus connectors extended

Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
design of the product	Line protection
design of the overcurrent release	ETU320
protection function of the overcurrent release	LI
number of poles	4
General technical data	
insulation voltage / rated value	800 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	516 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	172 W
mechanical service life (operating cycles) / typical	10 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	4 600
electrical endurance (operating cycles) / at AC-1 / at 690 V	3 200
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	28.6 kg
Current	
operational current	
• at 40 °C	1 250 A
• at 45 °C	1 250 A
• at 50 °C	1 250 A
• at 55 °C	1 187 A
• at 60 °C	1 125 A
• at 65 °C	1 000 A
• at 70 °C	875 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	M
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	85 kA
• at 415 V	55 kA
• at 440 V	55 kA
• at 500 V	36 kA
• at 690 V	25 kA
operating short-circuit current breaking capacity (Ics)	

• at 240 V • at 415 V • at 440 V • at 500 V • at 690 V	85 kA 55 kA 55 kA 36 kA 19 kA	
short-circuit current making capacity (Icm) • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V	187 kA 121 kA 121 kA 76 kA 52.5 kA	
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 • maximum	500 A 1 250 A	
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic • minimum • maximum	0.5 s 17 s	
adjustable response value setting current (Ii) / for I-tripping • minimum • maximum	1 875 A 12 500 A	
adjustable setting current (InN) / for N-tripping • minimum • maximum	250 A 1 250 A	
design of the N-conductor protection	adjustable OFF; 50%; 100%	
product function / grounding protection	No	
Mechanical Design		
product component • undervoltage release • voltage trigger • trip indicator	No No No	
height [in]	12.6 in	
height	320 mm	
width [in]	11.02 in	
width	280 mm	
depth [in]	4.72 in	
depth	120 mm	
Connections		
arrangement of electrical connectors / for main current circuit	Front terminal	
type of electrical connection / for main current circuit	busbar connection pieces extended on two sides	
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)	silver	
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 • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum	-25 °C 70 °C -40 °C 80 °C	
reference code / according to IEC 81346-2	Q	
Approvals / Certificates		
General Product Approval	EMV	Test Certificates



Miscellaneous



Miscellaneous

Test Certificates	Maritime application	other	Dangerous goods
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[Type Test Certificates/Test Report](#)



[Confirmation](#)



[Miscellaneous](#)

[Transport Information](#)

Environment

[Environmental Conformations](#)

[Environmental Conformations](#)

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)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2612-5HL47-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2612-5HL47-0AA0>

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

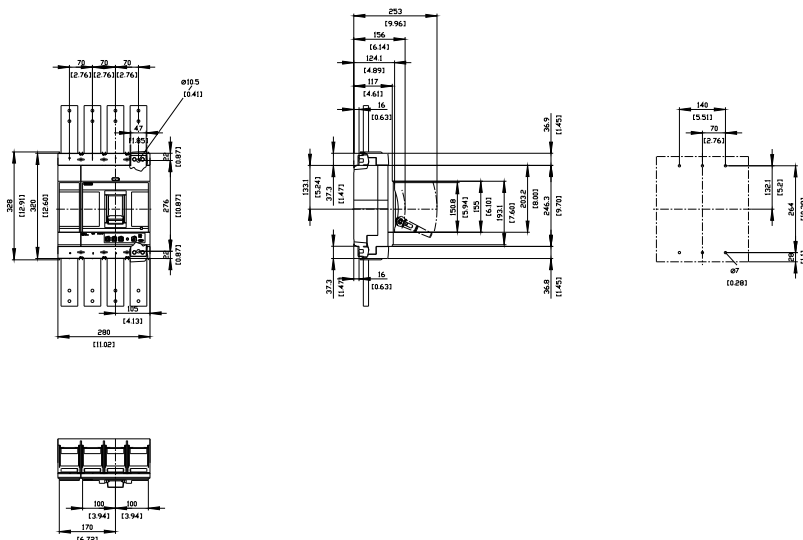
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2612-5HL47-0AA0

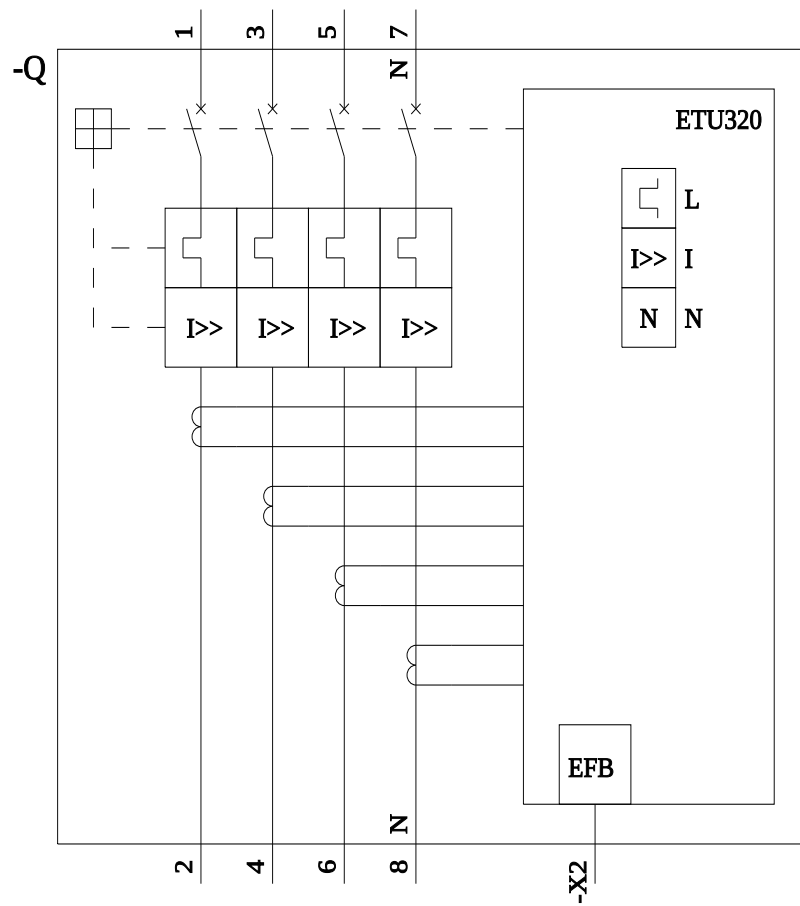
CAX-Online-Generator

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

Tender specifications

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





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