



circuit breaker 3VA2 IEC Frame 1250 breaking capacity class C Icu=110 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	C
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	200 kA
• at 415 V	110 kA
• at 440 V	110 kA
• at 500 V	85 kA
• at 690 V	35 kA
operating short-circuit current breaking capacity (Ics)	

• at 240 V • at 415 V • at 440 V • at 500 V • at 690 V	150 kA 85 kA 70 kA 65 kA 19 kA		
short-circuit current making capacity (Icm) • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V	440 kA 242 kA 242 kA 187 kA 73.5 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	Maritime application

Miscellaneous



Miscellaneous

Type Test Certificate/Test Report



other	Dangerous goods	Environment
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Confirmation



Miscellaneous

Transport Information

Environmental Con- firmations

Environmental Con- firmations

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=3VA2612-7HL47-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2612-7HL47-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2612-7HL47-0AA0

CAX-Online-Generator

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

Tender specifications

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



