



circuit breaker 3VA2 IEC frame 1000 breaking capacity class M
 $I_{cu}=55kA$ @ 415V 4-pole, line protection ETU860, LSIG, $I_n=1000A$
 overload protection $I_r=400A...1000A$ short-circuit protection
 $I_{sd}=0.6..10 \times I_n$, $I_i=1.5..10 \times I_n$ N conductor protection adjustable
 (OFF, up to 100%) gr.-fault prot., can be sw. off $I_g=0.2...1 \times I_n$
 $t_g=0.05-0.8s$ nut keeper kit

Model	
Product brand name	SENTRON
Product designation	Molded case circuit breaker
Product version	Line protection
Design of the overcurrent release	ETU860
Protective function of the overcurrent release	LSIG
Number of poles	4

General technical data	
Rated insulation voltage U_i	800 V
Max. rated operational voltage U_e with AC 50/60Hz	690 V
Power loss [W] / maximum	123 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	41 W
Latching - endurance	10 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	5 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	4 000
Neutral conductors / upgradeable/retrofittable	No

Ground fault monitoring version	Summation current formation L + N conductor
Product function	
• communication function	Yes
• other measurement function	Yes

Current	
Max. rated operational current of the frame size	1 000 A
Rated continuous current I _u	1 000 A
Operating current	
• at 40 °C	1 000 A
• at 45 °C	1 000 A
• at 50 °C	1 000 A
• at 55 °C	1 000 A
• at 60 °C	955 A
• at 65 °C	885 A
• at 70 °C	815 A

Switching capacity according to IEC 60947	
Switching capacity class of the circuit breaker	M
Maximum short-circuit current breaking capacity (I _{cu})	
• at 240 V	85 kA
• at 415 V	55 kA
• at 690 V	25 kA
Operational short-circuit current breaking capacity (I _{cs})	
• at 240 V	85 kA
• at 415 V	55 kA
• at 690 V	19 kA
Short-circuit current making capacity (I _{cm})	
• at 240 V	187 kA
• at 415 V	121 kA
• at 690 V	53 kA

Adjustable parameters	
Adjustable response value current / I _r min.	400 A
Adjustable response value current / I _r max.	1 000 A
Adjustable response value time / t _r min.	0.5
Adjustable response value time / t _r max.	25
Adjustable response value current / I _{sd} min.	600 A
Adjustable response value current / I _{sd} max.	10 000 A
Adjustable response value time / t _{sd} min.	0.05 s
Adjustable response value time / t _{sd} max.	0.5 s
Adjustable response value time / t _{sd} min.	0.05 s
Adjustable response value time / t _{sd} max.	0.5 s

Adjustable response value current / li min.	1 500 A
Adjustable response value current / li max.	10 000 A
Design of the N-conductor protection	adjustable OFF; 50%; 100%
Ground fault protection can be switched ON/OFF	Yes
Ground fault protection / tripping switchable / I _{2t} =ON/OFF	Yes
Adjustable response value current / lg min.	200 A
Adjustable response value current / lg max.	1 000 A
Adjustable response value current / tg min.	0.05 s
Adjustable response value current / tg max.	0.8 s

Mechanical Design

Height [in]	12.6 in
Height	320 mm
Width [in]	11 in
Width	280 mm
Depth [in]	4.7 in
Depth	120 mm

Connections

Arrangement of electrical connectors / for main current circuit	Front terminal
Type of electrical connection / for main current circuit	Lug terminal

Auxiliary circuit

Number of CO contacts / for auxiliary contacts	0
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Environmental conditions

Protection class IP / on the front	IP40
Ambient temperature	
• during operation / minimum	-40 °C
• during operation / maximum	70 °C
• during storage / minimum	-40 °C
• during storage / maximum	80 °C

Certificates

Reference code / acc. to DIN EN 81346-2	Q
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General Product Approval			EMC	Declaration of Conformity	
 CCC	 VDE	Miscellaneous		 RCM	 EG-Konf.

Test Certificates	Shipping Approval	other		
Miscellaneous	 LRS	CCS / China Classification Society	Manufacturer Declaration	Miscellaneous

Further information

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=3VA2510-5KQ42-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2510-5KQ42-0AA0>

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

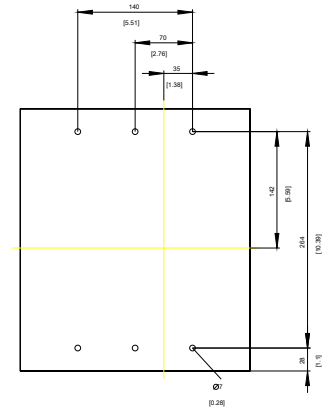
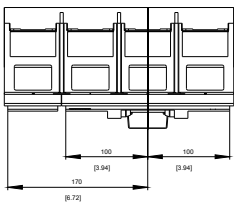
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2510-5KQ42-0AA0

CAX-Online-Generator

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

Tender specifications

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



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