

Circuit breaker 3VA2 IEC Frame 1000 Switching capacity class M
 $I_{cu}=55 \text{ kA @ } 415 \text{ V}$ 4-pole, system protection ETU860, LSIG, $I_n=630 \text{ A}$
 Overload protection $I_r=250 \text{ A} \dots 630 \text{ A}$ short-circuit protection
 $I_{sd}=0.6 \dots 10 \times I_n$, $I_i=1.5 \dots 12 \times I_n$ N-conductor protection adjustable
 (OFF, up to 160%) Ground fault protection, can be switched off
 $I_g=0.2 \dots 1 \times I_n$ $t_g=0.05 \dots 0.8 \text{ s}$ Lug terminal

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

General technical data	
Tension assignée d'isolement U_i	800 V
Max. rated operational voltage U_e with AC 50/60Hz	690 V
Active power loss / for rated value of the current / at AC / in hot operating state / per device	83.7 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	27.9 W
Mechanical service life (switching cycles) / typical	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/retrofitable	No
Ground fault monitoring version	Summation current formation L + N conductor
Product function	
• communication function	Yes
• other measurement function	Yes

Electricity

Max. rated operational voltage of the size of the circuit-breaker	1 000 A
Courant permanent assigné lu	630 A
Operating current	
• at 40 °C	630 A
• at 45 °C	630 A
• at 50 °C	630 A
• at 55 °C	630 A
• at 60 °C	630 A
• at 65 °C	630 A
• at 70 °C	630 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 690 V	25 kA
Operational short-circuit current breaking capacity (Ics)	
• at 240 V	85 kA
• at 415 V	55 kA
• at 690 V	19 kA
Short-circuit current making capacity (Icm)	
• at 240 V	187 kA
• at 415 V	121 kA
• at 690 V	53 kA

Adjustable parameters

Adjustable response value current / I _g min.	252 A
Adjustable response value current / I _g min.	630 A
Adjustable response value current / I _g min.	0.5
Adjustable response value current / I _g min.	25
Adjustable response value current / I _g min.	378 A
Adjustable response value current / I _g min.	6 300 A
Adjustable response value current / I _g min.	0.05 s
Adjustable response value current / I _g min.	0.5 s

Adjustable response value current / I _g min.	0.05 s
Adjustable response value current / I _g min.	0.5 s
Adjustable response value current / I _i min.	945 A
Adjustable response value current / I _i max.	7 560 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 / I _g min.	126 A
Adjustable response value current / I _g max.	630 A
Adjustable response value current / t _g min.	0.05 s
Adjustable response value current / I _g min.	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
Type of connectable conductor cross-section, connection screw, width x thickness , min.	20 x 4
Type of connectable conductor cross-section, connection screw, width x thickness , max.	50 x 9

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	-25 °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	Test Certificates
 CCC	 VDE	Miscellaneous 	Miscellaneous  RCM

other
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=3VA2563-5KQ42-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2563-5KQ42-0AA0>

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

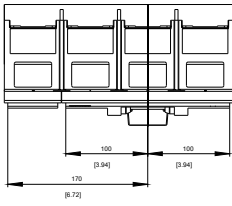
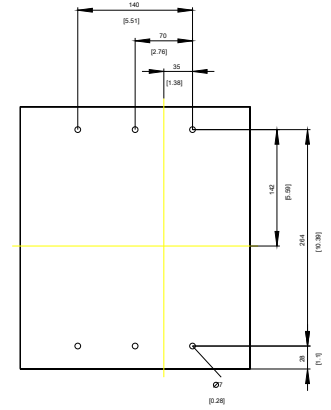
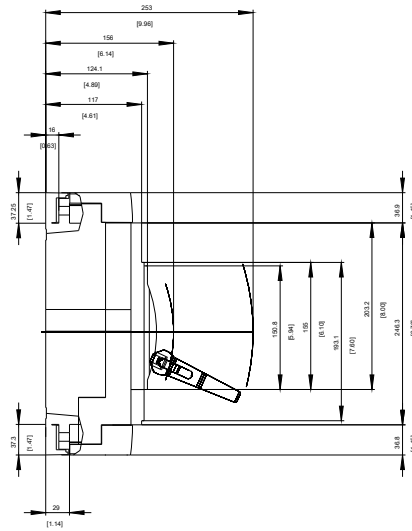
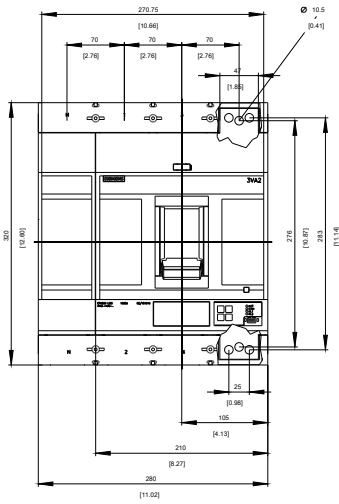
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2563-5KQ42-0AA0

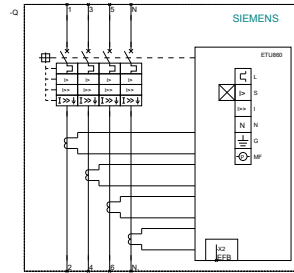
CAX-Online-Generator

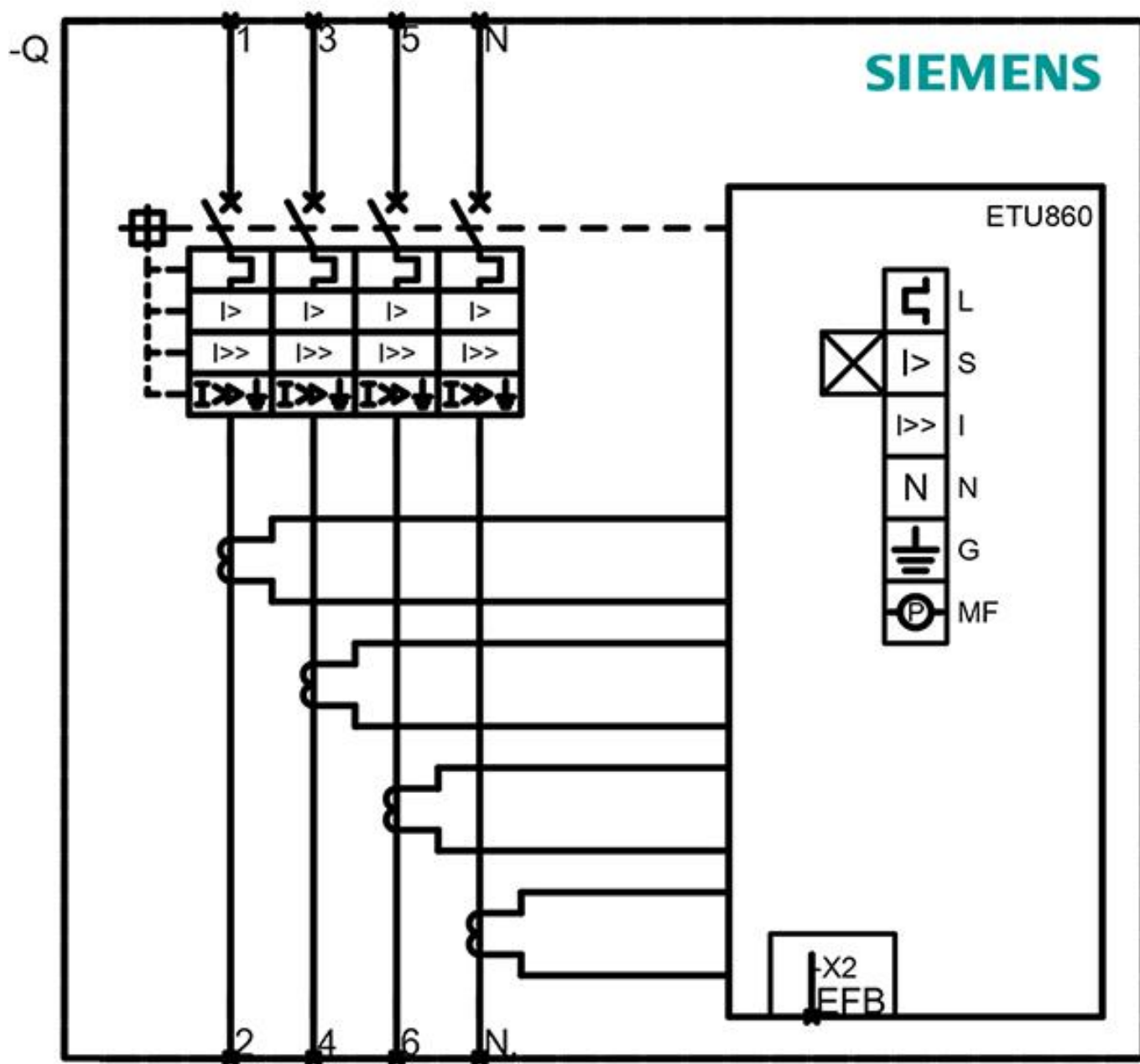
<http://www.siemens.com/cax>

Tender specifications

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







Internal circuit diagram IEC

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06/22/2018