



circuit breaker 3VA2 IEC frame 1000 breaking capacity class H
 $I_{cu}=85kA$ @ 415V 4-pole, line protection ETU860, LSIG, $I_n=800A$
 overload protection $I_r=320A...800A$ short-circuit protection
 $I_{sd}=0.6..10 \times I_n$, $I_i=1.5..12 \times I_n$ N conductor protection adjustable
 (OFF, up to 160%) 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
protection 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
power loss [W] / maximum	231 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	77 W
mechanical service life (switching cycles) / typical	10 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	4 600
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	3 200
Neutral conductors / upgradeable/retrofitable	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
Courant permanent assigné Iu	800 A
operating current	
• at 40 °C	800 A
• at 45 °C	800 A
• at 50 °C	800 A
• at 55 °C	800 A
• at 60 °C	800 A
• at 65 °C	767 A
• at 70 °C	703 A

Switching capacity according to IEC 60947

switching capacity class of the circuit breaker	H
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	110 kA
• at 415 V	85 kA
• at 440 V	85 kA
• at 500 V	55 kA
• at 690 V	35 kA
operational short-circuit current breaking capacity (Ics)	
• at 240 V	110 kA
• at 415 V	85 kA
• at 440 V	70 kA
• at 500 V	55 kA
• at 690 V	19 kA
short-circuit current making capacity (Icm)	
• at 240 V	242 kA
• at 415 V	187 kA
• at 440 V	187 kA
• at 500 V	121 kA
• at 690 V	74 kA

Adjustable parameters

Adjustable response value current / I _g min.	320 A
Adjustable response value current / I _g min.	800 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.	480 A
Adjustable response value current / I _g min.	8 000 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.	1 200 A
Adjustable response value current / I _i max.	8 000 A
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.	160 A
Adjustable response value current / I _g max.	800 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	on both sides nut keeper kit
Type of connectable conductor cross-section, connection screw, width x thickness , min.	20 x 4 mm

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	Declaration of Conformity
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CCC



VDE

[Miscellaneous](#)



RCM



EG-Konf.

Test Certificates	Shipping Approval	other
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[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=3VA2580-6KQ42-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2580-6KQ42-0AA0>

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

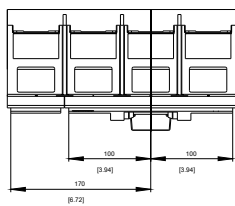
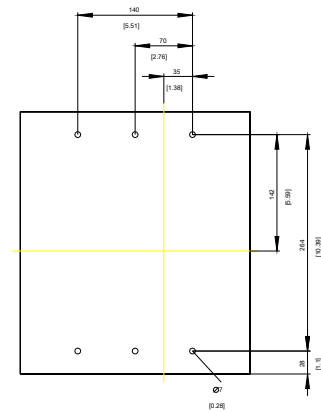
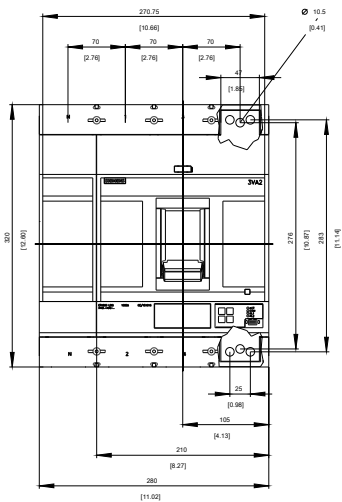
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2580-6KQ42-0AA0

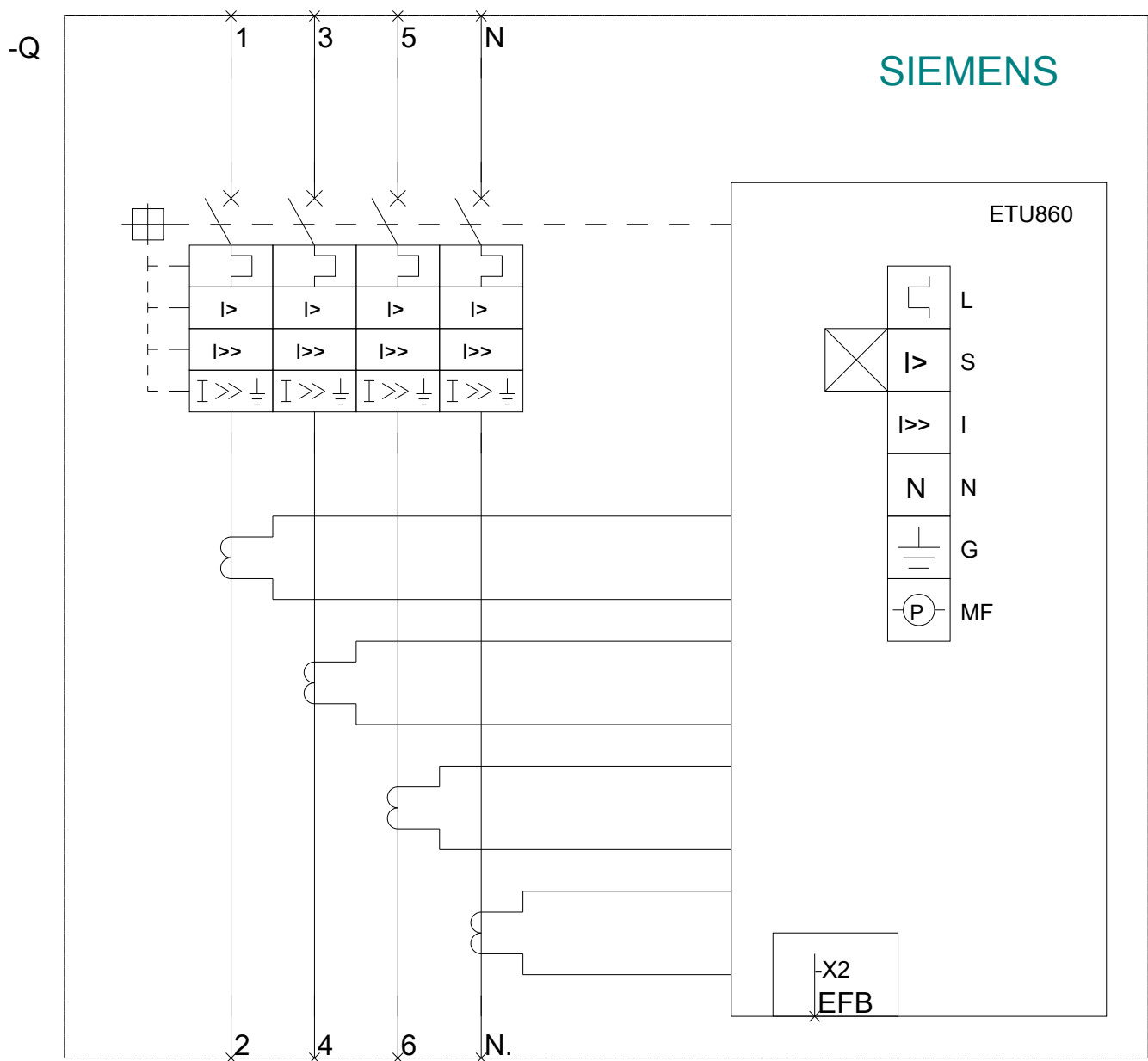
CAX-Online-Generator

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

Tender specifications

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





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