



circuit breaker 3VA2 IEC frame 1000 breaking capacity class H Icu=85kA @ 415V 3-pole, line protection ETU860, LSIG, In=800A overload protection Ir=320A...800A short-circuit protection Isd=0.6...10x In, li=1.5...12x In N conductor protection optionally with external current transformer, up to 160% gr.-fault prot., can be sw. off Ig=0.2...1 x In, tg=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	3

General technical data

insulation voltage / rated value	800 V
operating voltage / at AC / rated value	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	Yes
ground-fault monitoring version	Summation current formation L-conductor
product function	
• communication function	Yes
• other measurement function	Yes
Net Weight	14.208 kg

Current

continuous current / rated value / maximum	1 000 A
Courant permanent assigné Iu	800 A
operational 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
breaking capacity maximum short-circuit current (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
breaking capacity operating short-circuit current (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	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	320 A
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic / maximum	800 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic / minimum	0.5 s
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic / maximum	25 s
adjustable response value setting current (Isd) / of S-trip / with I0t characteristic / minimum	480 A
adjustable response value setting current (Isd) / of S-trip / with I0t characteristic / maximum	8 000 A
adjustable response value setting current (Isd) / of S-trip / with I2t characteristic / minimum	480 A
adjustable response value setting current (Isd) / of S-trip / with I2t characteristic / maximum	8 000 A
adjustable response value delay time (tsd) / for S-tripping / with I0t characteristic / minimum	0.05 s
adjustable response value delay time (tsd) / for S-tripping / with I0t characteristic / maximum	0.5 s
adjustable response value delay time (tsd) / for S-tripping / with I2t characteristic / minimum	0.05 s
adjustable response value delay time (tsd) / for S-tripping / with I2t characteristic / maximum	0.5 s
adjustable response value setting current (Ii) / for I-tripping / minimum	1 200 A
adjustable response value setting current (Ii) / for I-tripping / maximum	8 000 A
Adjustable response value current / Ig min.	160 A
Adjustable response value current / Ig max.	800 A
adjustable response value delay time (tg) / for G-tripping / with I0t characteristic / maximum	0.8 s
adjustable response value setting current (Ig) / for G-tripping / with I2t characteristic / minimum	160 A
adjustable response value setting current (Ig) / for G-tripping / with I2t characteristic / maximum	800 A
adjustable response value delay time (tg) / for G-tripping / with I2t characteristic / minimum	0.05 s
adjustable response value delay time (tg) / for G-tripping / with I2t characteristic / maximum	0.8 s
adjustable absolute value setting current (InN) / for N-tripping / minimum	160 A
adjustable absolute value setting current (InN) / for N-tripping / maximum	1 280 A
adjustable current response value current / of instantaneous short-circuit trip unit / minimum	1 200 A
Adjustable response value current / Ii max.	8 000 A
design of the N-conductor protection	adjustable OFF; 20% to 160%
Ground fault protection / tripping switchable / I2t=ON/OFF	Yes

Mechanical Design

product component	
• undervoltage release	No
• voltage trigger	No

• trip indicator	No
height [in]	12.6 in
Height	320 mm
width [in]	8.27 in
Width	210 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	on both sides nut keeper kit
Type of connectable conductor cross-section, connection screw, width x thickness , min.	20 x 4 mm
Type of connectable conductor cross-section, connection screw, width x thickness , max.	50 x 28 mm
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	-25 °C
• during operation / maximum	70 °C
• during storage / minimum	-40 °C
• during storage / maximum	80 °C

Certificates

reference code / according to IEC 81346-2	Q
---	---

General Product Approval

EMC

[Confirmation](#)



[Miscellaneous](#)



Declaration of Conformity

Test Certificates

Marine / Shipping



[Special Test Certificate](#)

[Miscellaneous](#)

[Type Test Certificates/Test Report](#)



Marine / Shipping

other



[CCS / China Classification Society](#)

[Miscellaneous](#)

other

[Environmental Confirmations](#)

[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=3VA2580-6KQ32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2580-6KQ32-0AA0>

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

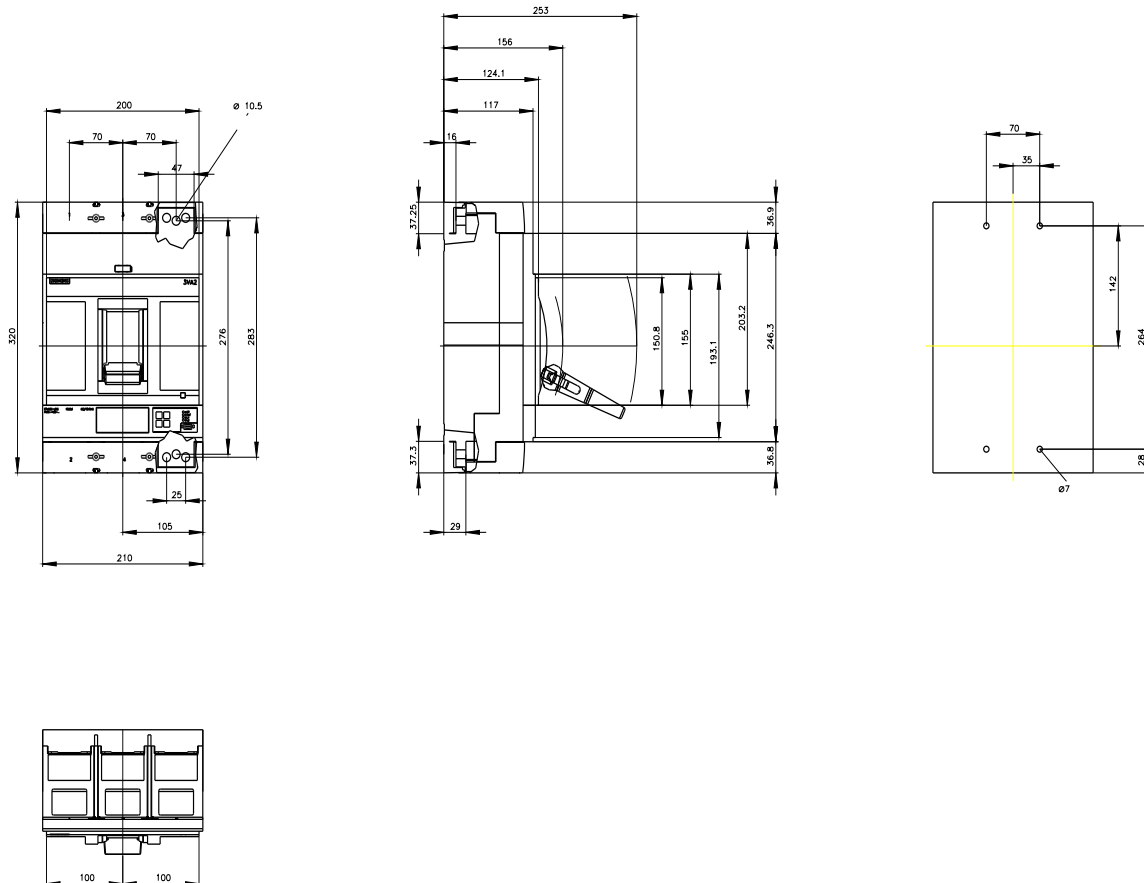
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2580-6KQ32-0AA0

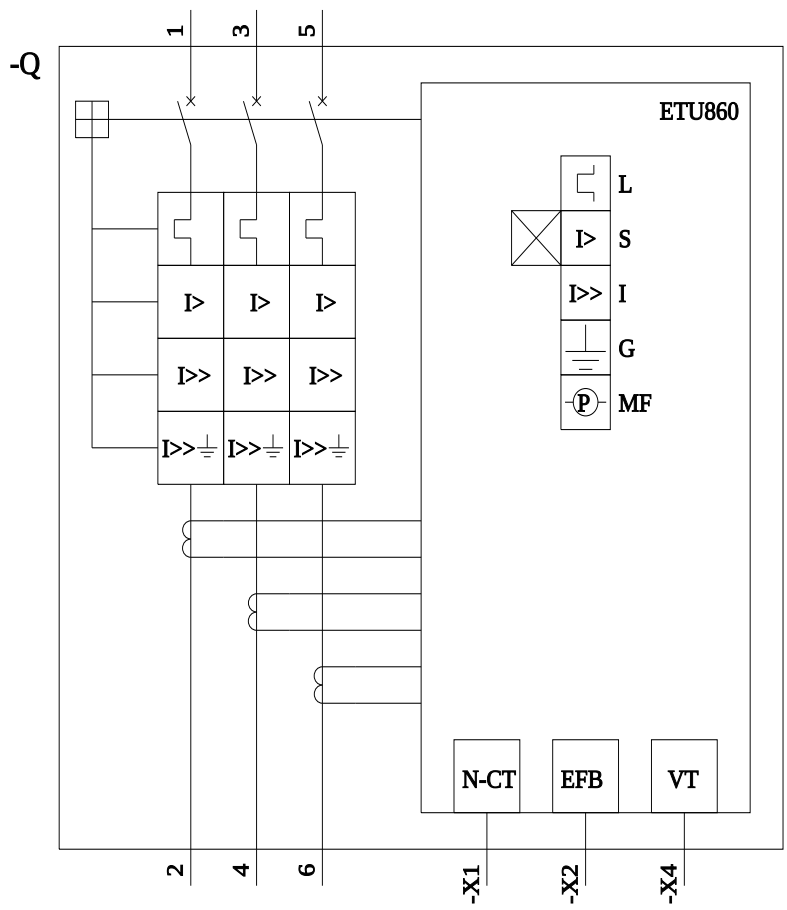
CAX-Online-Generator

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

Tender specifications

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





last modified: 7/19/2022

