



circuit breaker 3VA6 UL frame 2000 breaking capacity class M 35kA @ 480 V 3-pole, line protection ETU860, LSIG, In=2000A overload protection Ir=800A - 2000A short circuit protection Isd=0,6-10x In, li=1,5-6x In w/o connection Product is not marked with CE, not for use in Europe (EU) and in IEC applications

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	MRAE
design of the product	System protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design of the overcurrent release	ETU860
protection function of the overcurrent release	LSIG
number of poles	3
General technical data	
operating voltage / at AC / rated value	600 V
power loss [W] / maximum	676 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	676 W
mechanical service life (operating cycles) / typical	3 000
electrical endurance (operating cycles) / at 480 V	500
electrical endurance (operating cycles) / at 600 V	500
product feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof	Yes
ground-fault monitoring version	Summation current formation L + N-conductor
product function	
• communication function	Yes
• other measurement function	Yes
Net Weight	3.133 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	2 000 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	M
Switching capacity according to UL 489	
current breaking capacity	
• at 240 V	85 kA
• at 480 V	35 kA
• at 600 V	25 kA
Adjustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
• minimum	800 A
• maximum	2 000 A

adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	2.5 s
• maximum	30 s
adjustable response value setting current (I _{sd}) / of S-trip / with I0t characteristic	
• minimum	1 200 A
• maximum	12 000 A
adjustable response value setting current (I _{sd}) / of S-trip / with I2t characteristic	
• minimum	1 200 A
• maximum	12 000 A
adjustable response value delay time (tsd) / for S-tripping / with I0t characteristic	
• minimum	0.05 s
• maximum	0.5 s
adjustable response value delay time (tsd) / for S-tripping / with I2t characteristic	
• minimum	0.05 s
• maximum	0.5 s
adjustable response value setting current (I _I) / for I-tripping	
• minimum	3 000 A
• maximum	12 000 A
adjustable current response value current / for G-tripping / with standard characteristic	
• initial value	400 A
• full-scale value	1 200 A
adjustable response value delay time (tg) / for G-tripping / with I0t characteristic	
• minimum	0.05 s
• maximum	0.8 s
adjustable response value setting current (I _g) / for G-tripping / with I2t characteristic	
• minimum	400 A
• maximum	1 200 A
adjustable response value delay time (tg) / for G-tripping / with I2t characteristic	
• minimum	0.05 s
• maximum	0.8 s
adjustable current response value current / of instantaneous short-circuit trip unit	
• minimum	3 000 A
• maximum	12 000 A
design of the N-conductor protection	adjustable OFF; 20% to 160%
product function / grounding protection	Yes
Mechanical Design	
product component	
• undervoltage release	No
• trip indicator	No
height [in]	8.14 in
height	206.9 mm
width [in]	8.99 in
width	228.4 mm
depth [in]	16 in
depth	406.4 mm
Connections	
type of electrical connection / for main current circuit	without terminals
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
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	F
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	No

General Product Approval	other
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[Confirmation](#)



[Miscellaneous](#)



[Confirmation](#)

other

[Miscellaneous](#)

Further information

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3VA6920-5KQ31-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA6920-5KQ31-0AA0>

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

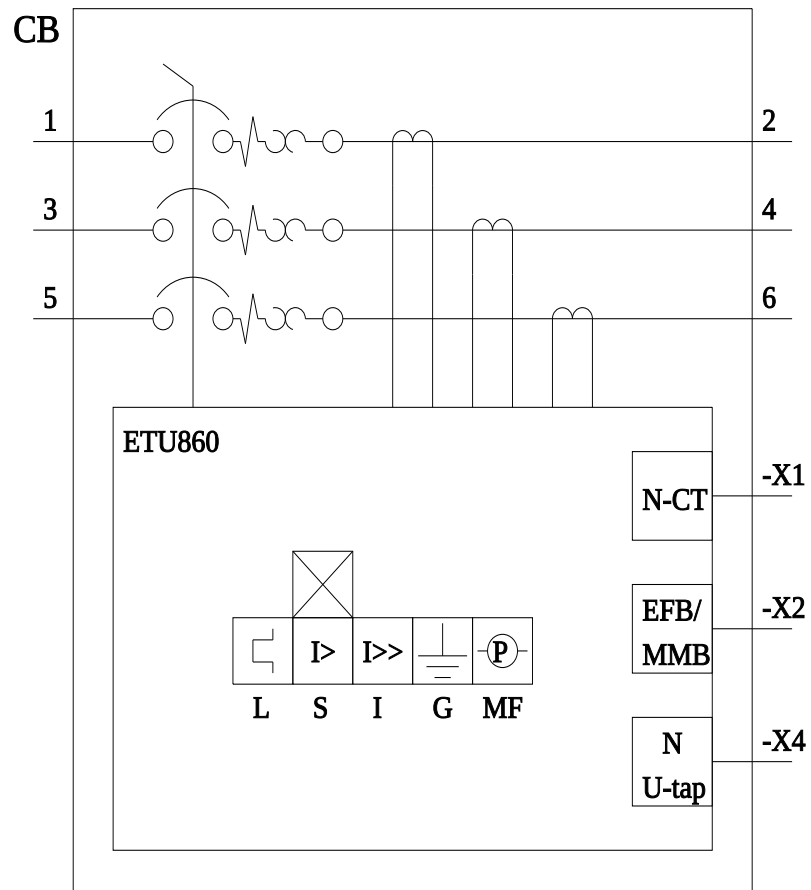
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6920-5KQ31-0AA0

CAX-Online-Generator

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

Tender specifications

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



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