3VA6225-6KM31-0AA0

Data sheet



circuit breaker 3VA6 UL frame 250 breaking capacity class H 65kA @ 480V 3-pole, line protection ETU830, LIG, In=250A overload protection Ir=100A...250A short-circuit protection Ii=1.5...10 x In ground-fault protection Ig=0.2...1 x In, tg=0.05-0.8s without connection

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HFAE
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	ETU830
protection function of the overcurrent release	LIG
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	42 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	14 W
mechanical service life (operating cycles) / typical	25 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	12 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	8 400
electrical endurance (operating cycles) / at 480 V	12 000
electrical endurance (operating cycles) / at 600 V	8 400
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No
ground-fault monitoring version	Summation current formation L-conductor
product function	
 communication function 	Yes
 other measurement function 	Yes
Net Weight	2.5 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	250 A
• at 45 °C	250 A
● at 50 °C	250 A
● at 55 °C	238 A
• at 60 °C	225 A
● at 65 °C	213 A
● at 70 °C	200 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	Н
maximum short-circuit current breaking capacity (Icu)	

• at 240 V	110 kA
• at 415 V	85 kA
• at 690 V	3 kA
operating short-circuit current breaking capacity (lcs)	
• at 240 V	110 kA
● at 415 V	85 kA
● at 690 V	3 kA
short-circuit current making capacity (Icm)	
• at 240 V	242 kA
• at 415 V	187 kA
• at 690 V	4.5 kA
Switching capacity according to UL 489	
current breaking capacity	
• at 240 V	100 kA
• at 480 V	65 kA
● at 600 Y/347 V	22 kA
• at 600 V	22 kA
Adjustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with	
12t characteristic	
• minimum	100 A
• maximum	250 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	0.5 s
• maximum	13 s
adjustable response value setting current (Ii) / for I-tripping	
• minimum	375 A
• maximum	2 500 A
adjustable current response value current / for G-tripping / with standard characteristic	
• initial value	50 A
full-scale value	250 A
adjustable response value delay time (tg) / for G-tripping / with l0t characteristic	
• minimum	0.05 s
maximum	0.8 s
adjustable response value setting current (Ig) / for G-tripping / with I2t characteristic	
• minimum	50 A
• maximum	250 A
adjustable response value delay time (tg) / for G-tripping / with I2t characteristic	
• minimum	0.05 s
• maximum	0.8 s
adjustable setting current (InN) / for N-tripping	
• minimum	0 A
• maximum	0 A
adjustable current response value current / of instantaneous short-circuit trip unit	
• minimum	375 A
• maximum	2 500 A
product function / grounding protection	Yes
total break time / for G-tripping / with standard characteristic	
• initial value	0.05 s
• full-scale value	0.8 s
Mechanical Design	
product component	
undervoltage release	No
 voltage trigger 	No
• trip indicator	No
height [in]	7.8 in
height	198 mm

4.13 in	
105 mm	
3.39 in	
86 mm	
Connections	
Without connection	
Without	
0	
Yes	
Environmental conditions	
IP40	
-25 °C	
70 °C	
-40 °C	
80 °C	
Q	
Yes	



Confirmation







Miscellaneous

General Product Approval

EMC

Declaration of Conformity

Marine / Shipping













Marine / Shipping

other

Dangerous Good





Confirmation

Miscellaneous

Miscellaneous

Transport Information

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=3VA6225-6KM31-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA6225-6KM31-0AA0

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

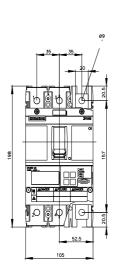
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6225-6KM31-0AA0

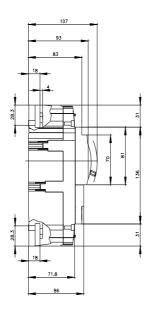
CAx-Online-Generator

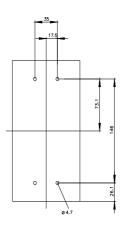
http://www.siemens.com/cax

Tender specifications

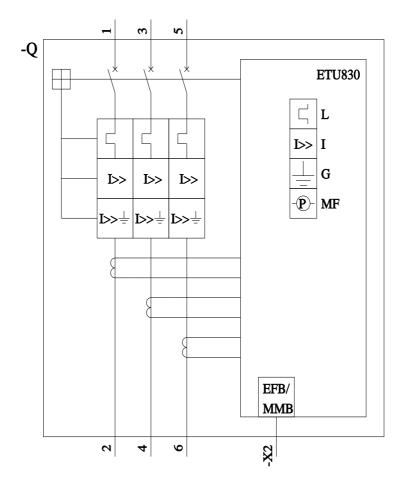
http://www.siemens.com/specifications

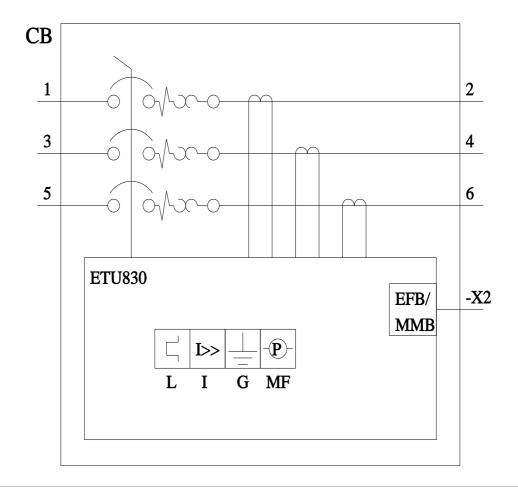












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