SIEMENS

Data sheet

3VA6210-5KL31-2AA0



Circuit breaker 3VA6 UL frame 250 breaking capacity class M 35kA @ 480V 3-pole, Line protection ETU820, LI, In=100A overload protection, 100% rated Ir=40A...100A Short-circuit protection Ii=1.5...12 x In without connection

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	MFAE
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	ETU820
protection function of the overcurrent release	L
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	6.7 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	2.23 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	without
product function	
 communication function 	Yes
other measurement function	Yes
Net Weight	2.3 kg
Current	
marking / according to UL 489 / 100%-rated breaker	Yes
operational current	
• at 40 °C	100 A
• at 45 °C	100 A
● at 50 °C	100 A
● at 55 °C	100 A
• at 60 °C	100 A
• at 65 °C	100 A
● at 70 °C	100 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	Μ
maximum short-circuit current breaking capacity (Icu)	

-+ 040 \/	
• at 240 V	85 kA
• at 415 V	55 kA
• at 690 V	3 kA
operating short-circuit current breaking capacity (Ics)	
• at 240 V	85 kA
• at 415 V	55 kA
• at 690 V	3 kA
short-circuit current making capacity (Icm)	
• at 240 V	187 kA
• at 415 V	121 kA
• at 690 V	4.5 kA
Switching capacity according to UL 489	
current breaking capacity	
• at 240 V	100 kA
• at 480 V	35 kA
• at 600 Y/347 V	18 kA
• at 600 V	18 kA
Adjustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with	
I2t characteristic	
• minimum	40 A
• maximum	100 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	0.5 s
• maximum	25 s
adjustable response value setting current (li) / for I-tripping	
• minimum	150 A
• maximum	1 200 A
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	150 A
• maximum	1 200 A
product function / grounding protection	No
Mechanical Design	
product component	
undervoltage release	No
• voltage trigger	No
• trip indicator	No
height [in]	7.8 in
height	198 mm
width [in]	4.13 in
width	4.13 m 105 mm
	3.39 in
depth [in]	86 mm
depth	
Connections	
arrangement of electrical connectors / for main current circuit	Without connection
type of electrical connection / for main current circuit	Without
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
Accessories	
product extension / optional / motor drive	Yes
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	2				
Certificates							
reference code / according to IEC 81346-2		Q					
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB		(no combat Yes					
General Product Approval							
<u>Confirmation</u>			U	<u>Miscellaneous</u>	EHC		
EMC	Declaration of Confo	ormity	Marine / Shipping		other		
RCM	UK CA	CE EG-Konf.	ABS		<u>Confirmation</u>		
other		Dangerous Good					
Miscellaneous	<u>Miscellaneous</u>	Transport 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=3VA6210-5KL31-2AA0

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

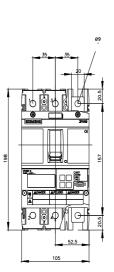
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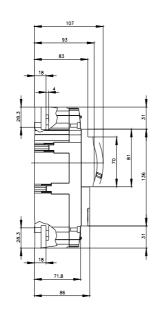
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6210-5KL31-2AA0

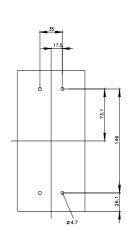
CAx-Online-Generator

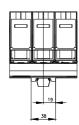
http://www.siemens.com/cax Tender specifications

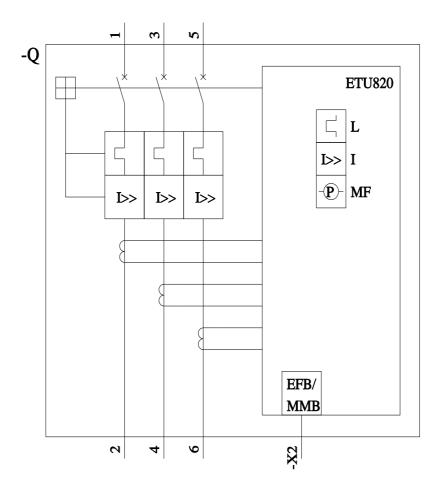
http://www.siemens.com/specifications

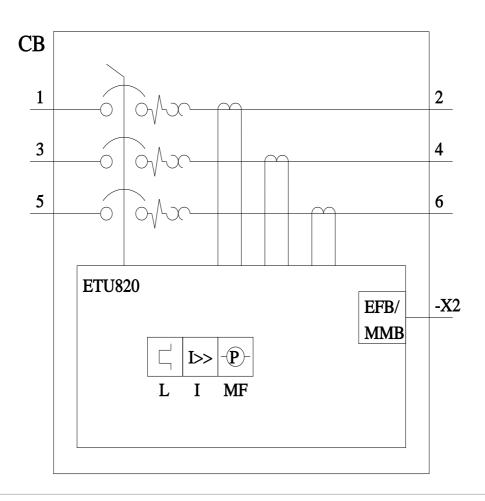












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