SIEMENS

Data sheet

3VA6210-5KM31-2AA0



Circuit breaker 3VA6 UL frame 250 breaking capacity class M 35kA @ 480V 3-pole, Line protection ETU830, LIG, In=100A overload protection, 100% rated Ir=40A...100A Short-circuit protection Ii=1.5...12 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	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	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	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	Summation current formation L-conductor
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	M
maximum short-circuit current breaking capacity (Icu)	

• 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 current response value current / for G-tripping / with standard characteristic	
initial value	20 A
full-scale value	100 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	20 A
• maximum	100 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	150 A
	1 200 A
maximum product function (groupding protection	
product function / grounding protection	Yes
total break time / for G-tripping / with standard characteristic • initial value	0.05 c
Initial value full-scale value	0.05 s
	0.8 s
Mechanical Design	
product component	
undervoltage release	No
voltage trigger	No
trip indicator	No
height [in]	7.8 in
height	198 mm

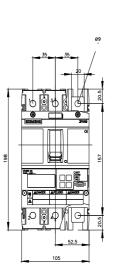
width [in]			4.13 in		
width			105 mm		
depth [in]			3.39 in		
depth			86 mm		
connections					_
	al connectors / for main		Without connection		
	ction / for main current c	ircuit	Without		
uxiliary circuit	· · · · · · · · · · · · · · · · · · ·	_			_
number of CO contacts	/ for auxiliary contacts		0		
ccessories		_			_
product extension / opti			Yes		
nvironmental conditio		_			
protection class IP / on	the front		IP40		
ambient temperature					
during operation			-25 °C		
during operation			70 °C		
• during storage / r			-40 °C		
• during storage / r	maximum		80 °C		
ertificates			2		
reference code / accord		· · · ·	Q		
vessels) / supplement S	as approval for NAVAL	(no combat	Yes		
General Product App					
EMC	Declaration of Confe	ormity	Marine / Shipping		other
RCM	UK CA	CE EG-Konf.	ABS		<u>Confirmation</u>
other		Dangerous Goo	d		
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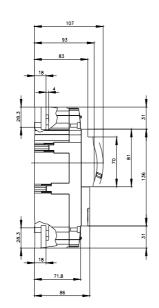
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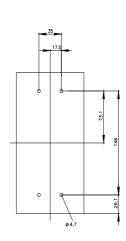
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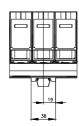
Tender specifications

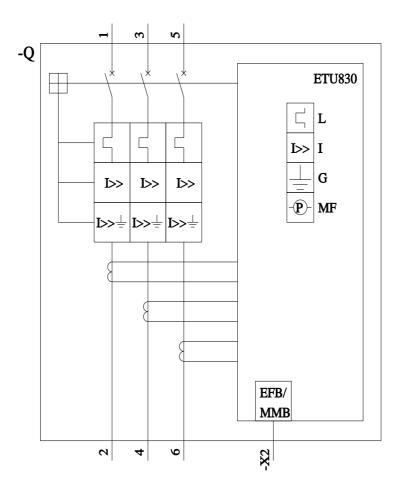
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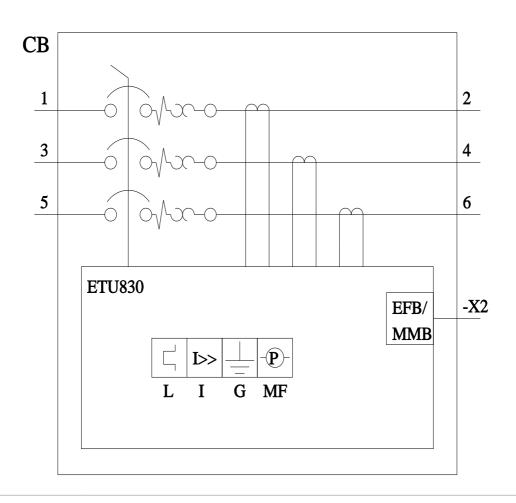












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