SIEMENS

Data sheet

3VA6210-7KM31-0AA0

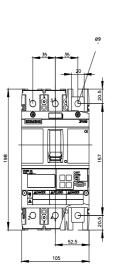


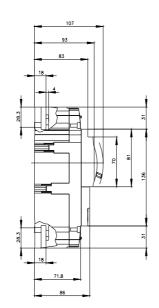
circuit breaker 3VA6 UL frame 250 breaking capacity class C 100kA @ 480V 3-pole, line protection ETU830, LIG, In=100A overload protection Ir=40A...100A short-circuit protection Ii=1.5...12 x In ground-fault protection Ig=0.2...1 x In, tg=0.05-0.8s without connection

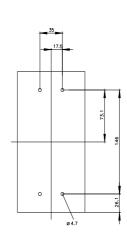
Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	CFAE
design of the product	System protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design 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	2.5 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
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	С
maximum short-circuit current breaking capacity (Icu)	

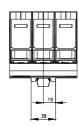
• at 240 V	150 kA
• at 415 V	110 kA
• at 690 V	3 kA
operating short-circuit current breaking capacity (Ics)	
• at 240 V	150 kA
• at 415 V	110 kA
• at 690 V	3 kA
short-circuit current making capacity (Icm)	
• at 240 V	330 kA
• at 415 V	242 kA
• at 690 V	4.5 kA
Switching capacity according to UL 489	
current breaking capacity	
• at 240 V	200 kA
• at 480 V	100 kA
• at 600 Y/347 V	35 kA
• at 600 V	35 kA
Adjustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with	
I2t characteristic	40.4
• minimum	40 A
maximum adjustable response value delay time (tr) / for L tripping / with 12t	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	0.0
• minimum	0 A
maximum adjustable current response value current / of instantaneous short-circuit trip unit	0 A
minimum	150 A
• minimum • maximum	1 200 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

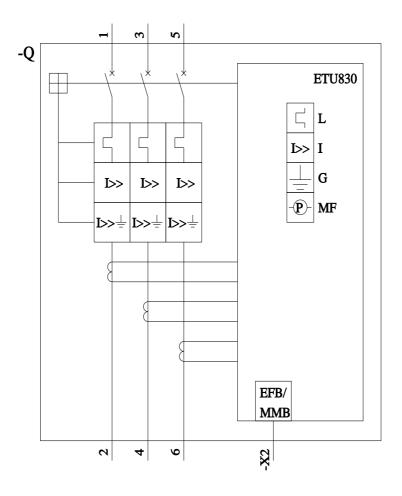
width [in]					
		4.13	n		
width		105 r	nm		
depth [in]		3.39	n		
depth		86 m	n		
Connections					
arrangement of electri	cal connectors / for main	current circuit Witho	out connection		
	ection / for main current c		out		
Auxiliary circuit					
	s / for auxiliary contacts	0			
Accessories		U			
	tional (motor drive	Yes			
product extension / op		fes			
Environmental condition		15.40	_	_	
protection class IP / or	n the front	IP40			
ambient temperature					
 during operatior 	n / minimum	-25 °0			
 during operatior 	n / maximum	70 °C			
 during storage / 	minimum	-40 °(0		
 during storage / 	maximum	80 °C			
Certificates					
reference code / accor	rding to IEC 81346-2	Q			
	/ as approval for NAVAL	(no combat Yes			
vessels) / supplement					
General Product App	proval				
Confirmation	(m)	Ē	Ē	\sim	Miscellaneous
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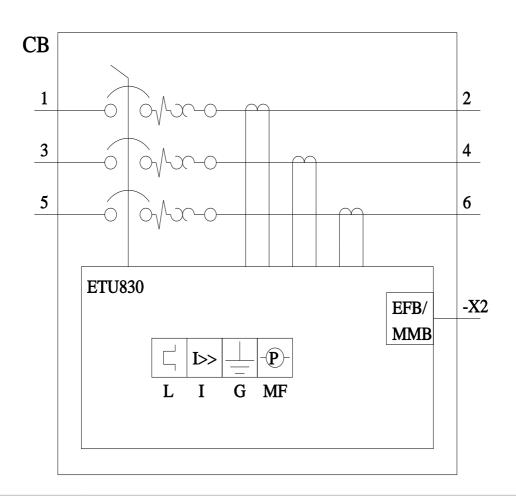












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