SIEMENS

Data sheet

3VA6225-7KM31-0AA0

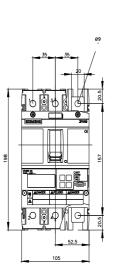


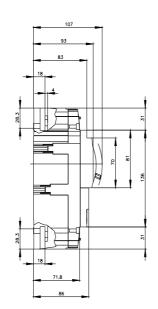
circuit breaker 3VA6 UL frame 250 breaking capacity class C 100kA @ 480V 3-pole, line protection ETU830, LIG, In=250A overload protection Ir=100A...250A short-circuit protection Ii=1.5...10 x In ground-fault protection Ig=0.2...1 x In, tg=0.05-0.8s without connection

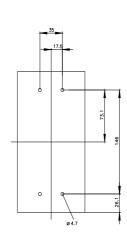
Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	CFAE
design of the product	System protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design 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	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	С
maximum short-circuit current breaking capacity (lcu)	

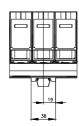
• at 240 V	150 kA
• at 240 V	110 kA
• at 690 V	3 kA
operating short-circuit current breaking capacity (lcs)	
• at 240 V	150 kA
• at 415 V	110 kA
• at 690 V	3 kA
short-circuit current making capacity (Icm)	
• at 240 V	330 kA
• at 415 V	242 kA
• at 690 V	4.5 kA
Switching capacity according to UL 489	
current 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	100 A
• minimum	100 A
maximum adjustable response value delay time (tr) / far L tripping / with 12t	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 (li) / 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

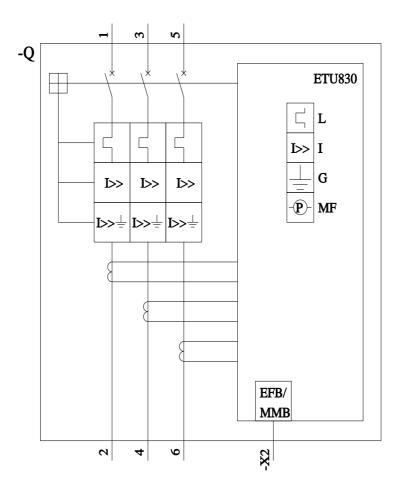
width [in] width depth [in]		4.13	in		
depth [in]					
		105	mm		
denth		3.39	in		
depth		86 n	ım		
Connections					
arrangement of electri	cal connectors / for main c	current circuit With	out connection		
type of electrical conn-	ection / for main current ci	rcuit With	out		
Auxiliary circuit					
	s / for auxiliary contacts	0			
Accessories					
product extension / op	tional / motor drive	Yes			
		103			
Environmental condition					
protection class IP / or		IP40			
ambient temperature	,				
 during operation 		-25			
during operation / maximum		70 °			
 during storage / 		-40			
 during storage / 	maximum	80 °			
Certificates					
reference code / accor	ding to IEC 81346-2	Q			
	/ as approval for NAVAL ((no combat Yes			
vessels) / supplement General Product App					
General Product App	proval				
	Confirmation	~	^	~	Miscellaneous
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EHC	RCM	CE EG-Konf.	UK CA	ABS	BUREAU VERITAS
ERIC Marine / Shipping	RCM	CEG-Konf.	UK CA	ABS	BUREAU VERITAS
ERIC Marine / Shipping	RCM	other	CA		
Marine / Shipping	RCM		UK Confirmation	ABS	
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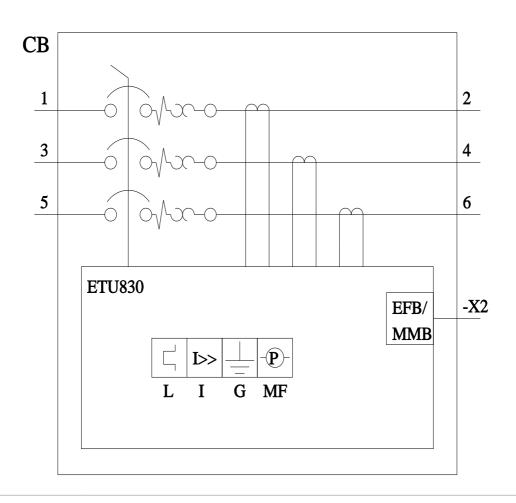












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