## SIEMENS

## Data sheet

## 3VA6225-7KM31-2AA0



Circuit breaker 3VA6 UL frame 250 breaking capacity class C 100kA @ 480V 3-pole, Line protection ETU830, LIG, In=250A overload protection, 100% rated 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			
<ul> <li>communication function</li> </ul>	Yes		
<ul> <li>other measurement function</li> </ul>	Yes		
Net Weight	2.3 kg		
Current			
marking / according to UL 489 / 100%-rated breaker	Yes		
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 (Icu)			

• 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
<ul> <li>voltage trigger</li> </ul>	No
trip indicator	No
height [in]	7.8 in
height	198 mm

ctors / for main cu r main current circ		4.13 in 105 mm 3.39 in	1		
		3.39 in	•		
		86 mm			
		0011111			
	rrent circuit	Without	connection		
		Without			
kiliary contacts		0			
		0			
otor drive		Yes			
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n		80 °C			
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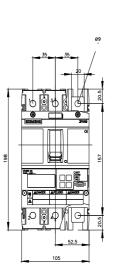
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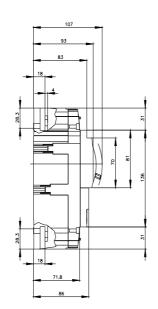
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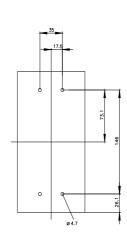
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

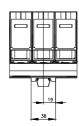
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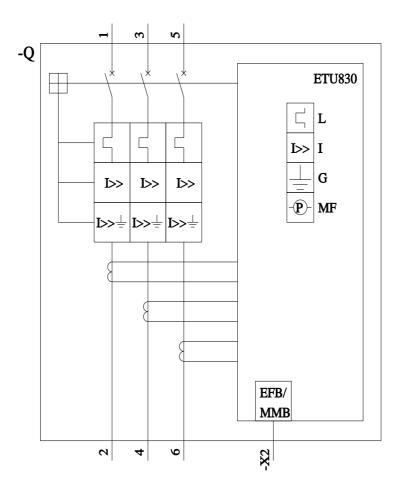
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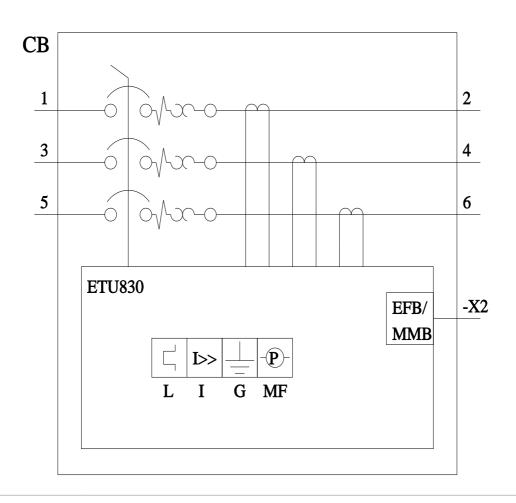












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