SIEMENS

Data sheet

3VA6440-7KM31-0AA0

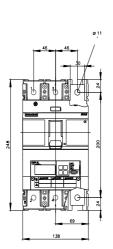


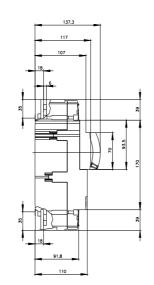
circuit breaker 3VA6 UL frame 600 breaking capacity class C 100kA @ 480V 3-pole, line protection ETU830, LIG, In=400A overload protection Ir=160A...400A short-circuit protection Ii=1.5...12 x In ground-fault protection Ig=0.2...1 x In, tg=0.05-0.8s without connection

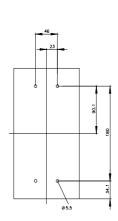
Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	CLAE
design of the product	System protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design 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	70 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	23.33 W
mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	4 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	3 500
electrical endurance (operating cycles) / at 480 V	4 000
electrical endurance (operating cycles) / at 600 V	3 500
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	5.3 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	400 A
● at 45 °C	400 A
• at 50 °C	400 A
● at 55 °C	400 A
• at 60 °C	400 A
● at 65 °C	400 A
● at 70 °C	400 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	6 kA
operating short-circuit current breaking capacity (Ics)	
• at 240 V	150 kA
• at 415 V	110 kA
• at 690 V	6 kA
short-circuit current making capacity (Icm)	
• at 240 V	330 kA
● at 415 V	242 kA
• at 690 V	9 kA
Switching capacity according to UL 489	
current breaking capacity	
• at 240 V	200 kA
• at 480 V	100 kA
• at 600 V	35 kA
Adjustable parameters	55 MA
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
● minimum	150 A
• maximum	400 A
adjustable response value delay time (tr) / for L-tripping / with l2t characteristic	
• minimum	0.5 s
• maximum	25 s
adjustable response value setting current (li) / for I-tripping	
• minimum	600 A
• maximum	4 800 A
adjustable current response value current / for G-tripping / with standard characteristic	
initial value	80 A
• full-scale value	400 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	80 A
• maximum	400 A
adjustable response value delay time (tg) / for G-tripping / with l2t 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	600 A
• maximum	4 800 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]	9.76 in
height	248 mm
width [in]	5.43 in
TIMAT [III]	

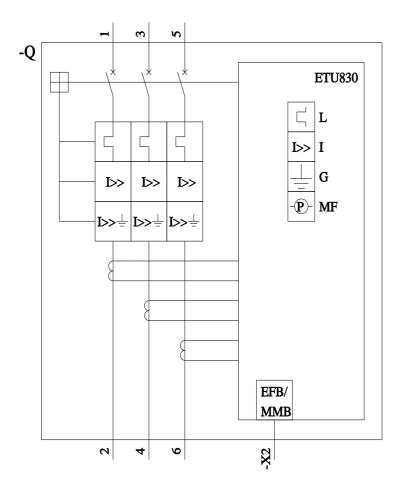
width	138	mm		
depth [in]	4.33	in		
depth	110	mm		
connections				
arrangement of electrical connectors / for main	n current circuit With	out connection		
type of electrical connection / for main current		out		
uxiliary circuit				
number of CO contacts / for auxiliary contacts	0			
	0			
ccessories				
product extension / optional / motor drive	Yes			
nvironmental conditions				
protection class IP / on the front	IP40	1		
ambient temperature				
 during operation / minimum 	-25	°C		
 during operation / maximum 	70 °	C		
 during storage / minimum 	-40	°C		
 during storage / maximum 	80 °	C		
ertificates				
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reference code / according to IEC 81346-2				
certificate of suitability / as approval for NAVAL vessels) / supplement SB	L (no combat Yes			
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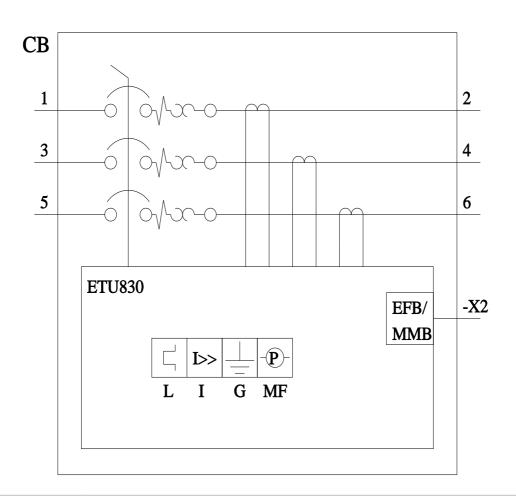




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