SIEMENS

Data sheet

3VA6460-7KM41-0AA0

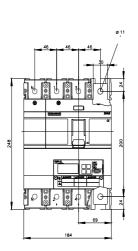


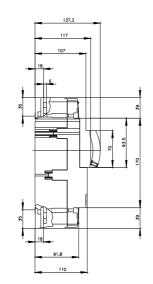
circuit breaker 3VA6 UL frame 600 breaking capacity class C 100kA @ 480V 4pole, line protection ETU830, LIG, In=600A overload protection Ir=240A...600A short-circuit protection Ii=1.5...9 x In ground-fault protection Ig=0.2...1 x In, tg=0.05-0.8s without connection

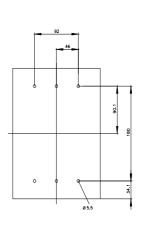
Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	CLAE
design of the product	System protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design of the overcurrent release	ETU830
protection function of the overcurrent release	LIG
number of poles	4
General technical data	
insulation voltage / rated value	800 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	151 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	50.33 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 + N-conductor
product function	
 communication function 	Yes
 other measurement function 	Yes
Net Weight	6.9 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
● at 40 °C	600 A
● at 45 °C	600 A
● at 50 °C	570 A
● at 55 °C	540 A
● at 60 °C	510 A
● at 65 °C	480 A
• at 70 °C	450 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	С
maximum short-circuit current breaking capacity (Icu)	

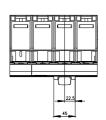
• at 240 V	150 kA
• at 415 V	110 kA
• at 690 V	6 kA
operating short-circuit current breaking capacity (Ics)	
• at 240 V	150 kA
• at 415 V	110 kA
• at 690 V	6 kA
short-circuit current making capacity (Icm)	
• at 240 V	330 kA
• at 415 V	242 kA
• at 690 V	9 kA
Switching capacity according to UL 489	
current breaking capacity	
• at 240 V	200 kA
• at 480 V	100 kA
• at 600 V	35 kA
	55 MA
Adjustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
minimum	250 A
• maximum	600 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
minimum	0.5 s
• maximum	15 s
adjustable response value setting current (li) / for I-tripping	10.5
minimum	900 A
maximum	5 400 A
adjustable current response value current / for G-tripping / with standard characteristic	
initial value	120 A
full-scale value	600 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	120 A
• maximum	600 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	120 A
• maximum	600 A
adjustable current response value current / of instantaneous short-circuit trip unit	
• minimum	900 A
• maximum	5 400 A
design of the N-conductor protection	adjustable OFF; 20% to 100%
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
ncigitt	240 11111

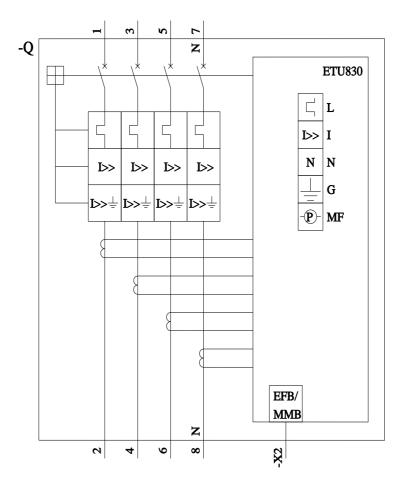
width [in]		7.24	in .		
		7.24	in		
width		184	mm		
depth [in]		4.33	in		
depth		110	mm		
Connections					
arrangement of electri	cal connectors / for main	current circuit With	out connection		
type of electrical conn	ection / for main current ci	ircuit With	out		
Auxiliary circuit					
	s / for auxiliary contacts	0			
Accessories		0			
product extension / op	tional / motor drive	Yes			
Environmental conditi		163			
		1040			
protection class IP / o		IP40	, 		
ambient temperature		05.1	20		
during operatio		-25			
during operatio		70 °			
during storage		-40 °			
during storage		80 °			
Certificates					
reference code / acco	-	Q			
5	/ as approval for NAVAL	(no combat Yes			
vessels) / supplement					
General Product Ap	provai				
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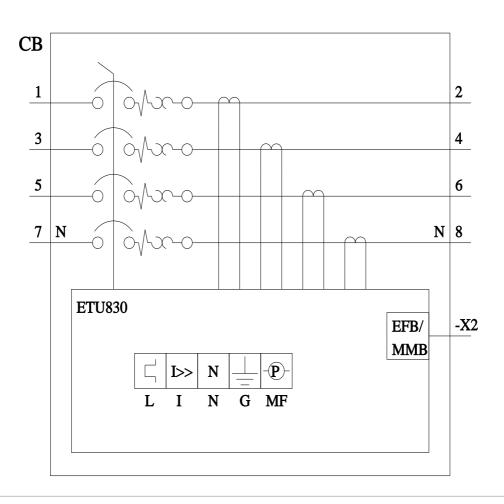












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