## SIEMENS

## Data sheet

## 3VA6440-6KM41-0AA0

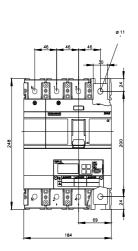


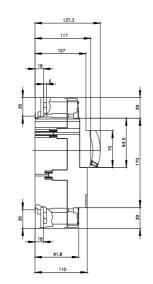
circuit breaker 3VA6 UL frame 600 breaking capacity class H 65kA @ 480V 4-pole, line protection ETU830, LIG, In=400A overload protection Ir=160A...400A short-circuit protection Ii=1.5...12 x In ground-fault protection Ig=0.2...1 x In, tg=0.05-0.8s without connection

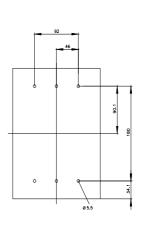
Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HLAE
design of the product	System protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design 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	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 + N-conductor
product function	
<ul> <li>communication function</li> </ul>	Yes
<ul> <li>other measurement function</li> </ul>	Yes
Net Weight	6.9 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	Н
maximum short-circuit current breaking capacity (Icu)	

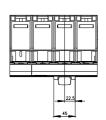
• at 240 V	110 kA
• at 415 V	85 kA
• at 690 V	6 kA
operating short-circuit current breaking capacity (Ics)	
• at 240 V	110 kA
• at 415 V	85 kA
• at 690 V	6 kA
short-circuit current making capacity (Icm)	
• at 240 V	242 kA
• at 415 V	187 kA
• at 690 V	9 kA
Switching capacity according to UL 489	
current breaking capacity	
• at 240 V	100 kA
• at 480 V	65 kA
• at 600 V	22 kA
Adjustable parameters	22 M
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 I2t 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	
<ul> <li>initial value</li> </ul>	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	80 A
• maximum	600 A
adjustable current response value current / of instantaneous short-circuit trip unit	
• minimum	600 A
• maximum	4 800 A
design of the N-conductor protection	adjustable OFF; 20% to 150%
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

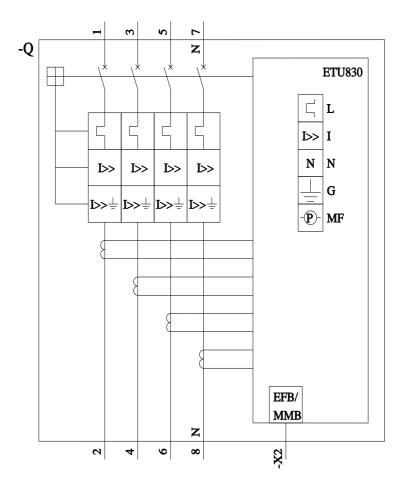
width [in]		7.24 i	n		
width		184 n	ım		
depth [in]		4.33 i	n		
depth		110 n	ım		
Connections					
arrangement of electric	al connectors / for main	current circuit Witho	ut connection		
type of electrical connection / for main current circuit			ut		
Auxiliary circuit					
	s / for auxiliary contacts	0			
Accessories	s i for duxinary contacto	0			
	ional / motor driva	Yes			
product extension / opt		res			
Environmental condition		17.10			
protection class IP / on	the front	IP40			
ambient temperature					
<ul> <li>during operation</li> </ul>	/ minimum	-25 °C			
<ul> <li>during operation</li> </ul>	/ maximum	70 °C			
<ul> <li>during storage /</li> </ul>	minimum	-40 °C	)		
<ul> <li>during storage /</li> </ul>	maximum	80 °C			
Certificates					
reference code / accor	ding to IEC 81346-2	Q			
	/ as approval for NAVAL	(no combat Yes			
vessels) / supplement	SB				
General Product App	roval				
Confirmation			ŝ	$\sim$	<u>Miscellaneous</u>
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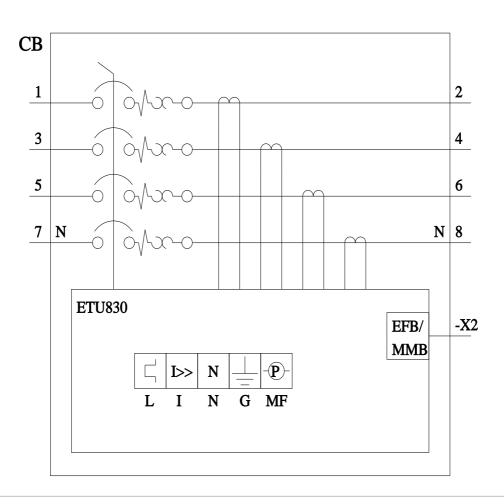












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