## SIEMENS

## Data sheet

## 3VA6460-7KM31-0AA0



circuit breaker 3VA6 UL frame 600 breaking capacity class C 100kA @ 480V 3-pole, 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	3		
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-conductor		
product function			
<ul> <li>communication function</li> </ul>	Yes		
<ul> <li>other measurement function</li> </ul>	Yes		
Net Weight	5.3 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
	35 KA
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	
• 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     adjustable response value delay time (tg) / for G-tripping / with	600 A
I2t characteristic	0.05
• minimum	0.05 s
• maximum	0.8 s
adjustable current response value current / of instantaneous short-circuit trip unit	
• minimum	900 A
• maximum	5 400 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
	0.0 3
Mechanical Design	
product component	
<ul> <li>undervoltage release</li> </ul>	No
<ul> <li>voltage trigger</li> </ul>	No
trip indicator	No
height [in]	9.76 in
height	248 mm
width [in]	5.43 in
width	138 mm
depth [in]	4.33 in
	110 mm
depth	

Connections						
arrangement of electrical	connectors / for main c	urrent circuit	Without con	nection		
type of electrical connect			Without			
Auxiliary circuit						
number of CO contacts /	for auxiliary contacts		0			
Accessories			0			
product extension / option	nal / motor drive		Yes			
Environmental condition			103			
protection class IP / on th			IP40			
ambient temperature			11 40			
during operation /	minimum		-25 °C			
during operation /			70 °C			
<ul> <li>during storage / mi</li> </ul>			-40 °C			
during storage / m			80 °C			
Certificates						
reference code / accordir	ng to IEC 81346-2		Q			
certificate of suitability / a vessels) / supplement SE	s approval for NAVAL (	no combat	Yes			
General Product Appro						
Confirmation	(M)	Ē		Ē		Miscellaneous
		<u></u>		S.	æ	
General Product Ap- proval	EMC	Declaration of C	Conformity		Marine / Shipping	
EAC	RCM	UK CA		CE EG-Konf.	ABS	BUREAU VERITAS
Marine / Shipping		other				Dangerous Good
	RMRS	<u>Confirmation</u>	ı <u>N</u>	<u>liscellaneous</u>	<u>Miscellaneous</u>	Transport Information
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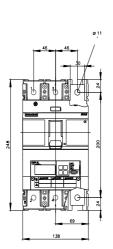
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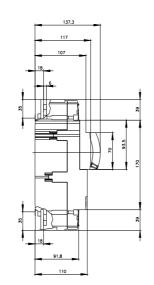
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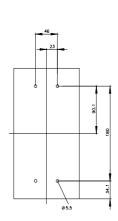
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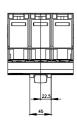
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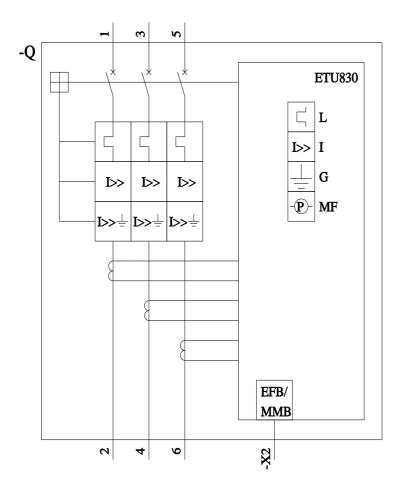
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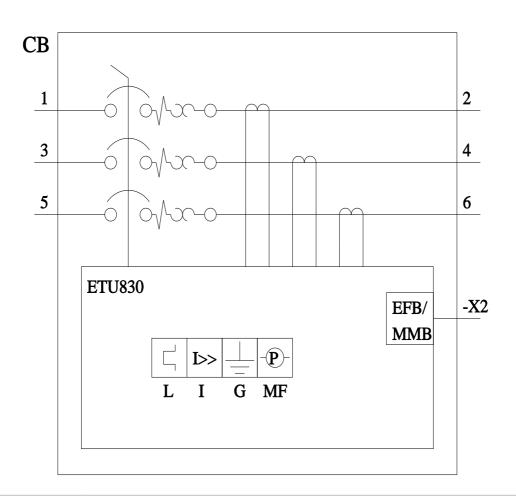




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