SIEMENS

Data sheet

3VA6460-6KM36-0AA0

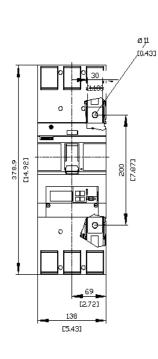


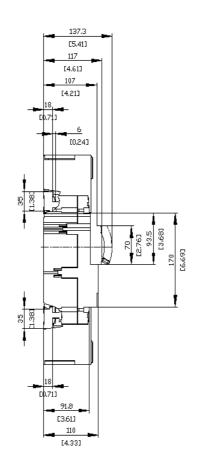
circuit breaker 3VA6 UL frame 600 breaking capacity class H 65kA @ 480 V 3-pole, line protection ETU830, LIG, In=600A overload protection Ir=240A ...600A short-circuit protection Ii=1.5...9 x In ground-fault protection Ig=0.2... 1 x In, tg=0.05-0.8s cable connection on both sides

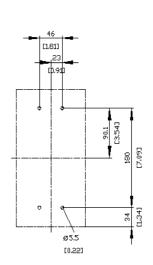
Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HLAE
design of the product	System protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design of the overcurrent release	ETU830
protection function of the overcurrent release	LIG
number of poles	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	
 communication function 	Yes
 other measurement function 	Yes
Net Weight	9.621 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	Н
maximum short-circuit current breaking capacity (Icu)	

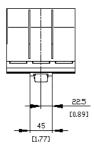
• at 240 V	110 kA
• at 415 V	85 kA
• at 690 V	6 kA
operating short-circuit current breaking capacity (lcs)	
• at 240 V	110 kA
• at 415 V	85 kA
• at 690 V	6 kA
short-circuit current making capacity (Icm)	
• at 240 V	242 kA
• at 415 V	187 kA
• at 690 V	9 kA
Switching capacity according to UL 489	
current breaking capacity	
• at 240 V	100 kA
• at 480 V	65 kA
• at 600 V	22 kA
Adjustable parameters	
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 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 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
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
type of connectable conductor cross-sections / of the round conductor terminal / stranded	2 x (2/0 - 600 kcmil)
width	138 mm
depth [in]	4.33 in
depth	110 mm
Connections	
arrangement of electrical connectors / for main current circuit	Front connection
type of electrical connection / for main current circuit	circular conductor terminal on both sides
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
Accessories	0
	Vaa
product extension / optional / motor drive	Yes
Environmental conditions	

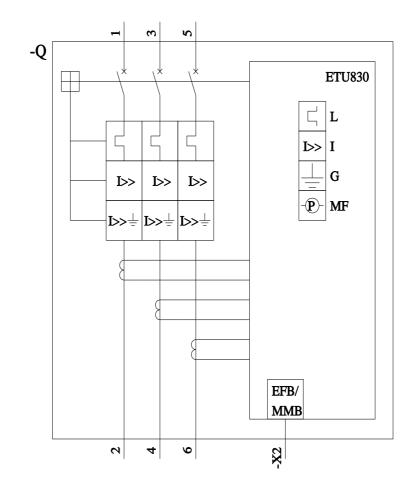
protection class IP / on the	he front	IP4	0		
ambient temperature					
during operation / minimum		-25	°C		
during operation / maximum		70	°C		
during storage / minimum		-40	°C		
during storage / maximum		80	°C		
ertificates					
	ng to IEC 81346-2	Q			
reference code / according to IEC 81346-2 certificate of suitability / as approval for NAVAL (no combat			3		
vessels) / supplement SB General Product Approval					EMC
	<u>Confirmation</u>	(U) JI	<u>Miscellaneous</u>	EHC	
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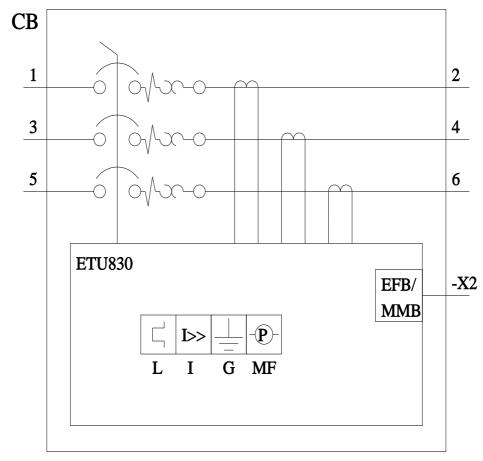












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