SIEMENS

Data sheet

3VA6440-6KM31-0AA0

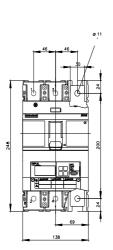


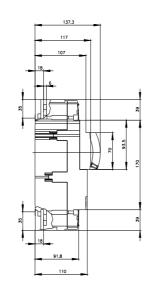
circuit breaker 3VA6 UL frame 600 breaking capacity class H 65kA @ 480V 3-pole, line protection ETU830, LIG, In=400A overload protection Ir=160A...400A short-circuit protection Ii=1.5...12 x In ground-fault protection Ig=0.2...1 x In, tg=0.05-0.8s without connection

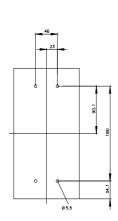
Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HLAE
design of the product	System protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design 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	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	Н
maximum short-circuit current breaking capacity (Icu)	

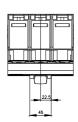
•••••••••••••••••••••••••••••••••••	• at 415 V85 kA• at 690 V6 kAoperating short-circuit current breaking capacity (lcs)110 kA• at 240 V110 kA• at 415 V85 kA• at 690 V6 kA• at 690 V242 kA• at 415 V187 kA• at 415 V9 kAShort-circuit current making capacity (lcm)187 kA• at 415 V9 kA• at 415 V9 kA• at 415 V187 kA• at 690 V9 kASwitching capacity according to UL 489current breaking capacity100 kA• at 480 V65 kA• at 600 V22 kAAdjustable parametersadjustable response value setting current (lr) / of the L-trip / with l2t characteristic• minimum150 A	
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shart-rout current making capacity (lon)242 kA• at 260 Y9 kA• at 165 V.187 kA• at 165 V.187 kA• at 160 V.9 kAStatching capacity according to UL 489Current breaking capacity65 kA• at 480 V.25 kA• at 160 K.00 A• at 160 K. <td>short-circuit current making capacity (Icm) 242 kA • at 240 V 242 kA • at 415 V 187 kA • at 690 V 9 kA Switching capacity according to UL 489 current breaking capacity 100 kA • at 240 V 100 kA • at 480 V 65 kA • at 600 V 22 kA</td> <td></td>	short-circuit current making capacity (Icm) 242 kA • at 240 V 242 kA • at 415 V 187 kA • at 690 V 9 kA Switching capacity according to UL 489 current breaking capacity 100 kA • at 240 V 100 kA • at 480 V 65 kA • at 600 V 22 kA	
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skidegkkSwitching capacity current bracking capacity		
Switching capacity according to UL 499 current treaking capacity • #1240 V • #1240 V • #1260 A	Switching capacity according to UL 489 current breaking capacity • at 240 V • at 480 V • at 480 V • at 600 V 22 kA Adjustable parameters adjustable response value setting current (Ir) / of the L-trip / with l2t characteristic • minimum 150 A	
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- at 600 V 22 kA Adjustable response value setting current (I/) / of the L-tip / with fit characteristic 150 A - maximum 150 A - maximum 0.0 A - diustable response value setting current (II) / for L-tipping / with 12t - - minimum 0.5 s - maximum 28 s - minimum 600 A - maximum 600 A - maximum 4800 A - minimum 600 A - full scale value 80 A - full scale value 80 A - minimum 0.5 s - minimum 0.5 s - minimum 0.5 s - minimum 0.05 s - maximum 0.05 s - minimum 0.05 s - minimum 0.06 s - minimum 0.06 s - mininum 0.06 s </td <td>• at 600 V 22 kA Adjustable parameters adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic • minimum 150 A</td> <td></td>	• at 600 V 22 kA Adjustable parameters adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic • minimum 150 A	
Adjustable response value setting current (if) / of the L-tin/ / with 150 A • minimum 400 A adjustable response value delay time (if) / for L-tripping / with 12t 0.5 s • maximum 25 s • maximum 600 A • maximum 4800 A adjustable response value setting current (iii) / for L-tripping / with 12t 600 A • maximum 4800 A adjustable response value setting current (iii) / for L-tripping / with standard characteristic 800 A • initial value 800 A • initial value 80 A • initial value 80 A • minimum 0.65 s • minimum 0.8 s • dijustable response value delay time (ig) / for G-tripping / with 12t characteristic 0.8 s • minimum 0.8 s • minimum 0.8 s • minimum 0.05 s • minimum	Adjustable parameters adjustable response value setting current (Ir) / of the L-trip / with l2t characteristic • minimum 150 A	
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product component • undervoltage release • voltage trigger • trip indicator height [in] 9.76 in	• full-scale value 0.8 s	
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• trip indicator No height [in] 9.76 in	undervoltage release No	
height [in] 9.76 in	voltage trigger No	
	• trip indicator No	
height 248 mm	height [in] 9.76 in	
	height 248 mm	
width [in] 5.43 in	width [in] 5.43 in	

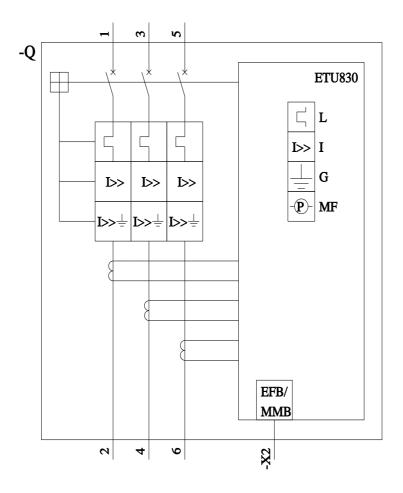
width	138	mm		
depth [in]	4.33	in		
depth	110	mm		
connections				
arrangement of electrical connectors / for main	current circuit With	out connection		
type of electrical connection / for main current of		out		
uxiliary circuit				
number of CO contacts / for auxiliary contacts	0			
•	0			
ccessories				
product extension / optional / motor drive	Yes			
nvironmental conditions				
protection class IP / on the front	IP40)		
ambient temperature				
 during operation / minimum 	-25	°C		
 during operation / maximum 	70 °	С		
 during storage / minimum 	-40	°C		
 during storage / maximum 	80 °	С		
ertificates				
	Q			
reference code / according to IEC 81346-2				
certificate of suitability / as approval for NAVAL vessels) / supplement SB	(no combat Yes			
General Product Approval				
Scheral Product Approval				
Confirmation	\sim	\sim	^	Miscellaneous
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CCC	UL	UL	VDE	
General Product Ap-	Declaration of Confe	mon lés c	Marina / Chinning	
General Product Approval EMC	Declaration of Confo	rmity	Marine / Shipping	
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· FIVIL	Declaration of Confo	rmity UK	Marine / Shipping	
· FIVIL	CE	rmity		
· FIVIL	Declaration of Confo CEC EG-Konf.	rmity UK	Marine / Shipping	BUREAU BUREAU
· FIVIL	CE	rmity UK CA		BUREAU VERITAS
	C C EG-Konf.	rmity UK CA		BUREAU VERITAS
· FIVIL	CE	rmity UK		BUREAU VERITAS Dangerous Good
	EG-Konf.	UK CA	ABS	-
	C C EG-Konf.	rmity UK CA		Dangerous Good
	EG-Konf.	UK CA	ABS	
	EG-Konf.	UK CA	ABS	
	EG-Konf.	UK CA	ABS	
	EG-Konf.	UK CA	ABS	
	EG-Konf.	UK CA	ABS	-
Marine / Shipping	EG-Konf.	UK CA	ABS	
proval EMIC Marine / Shipping Marine / Shipping Image: Comparison of the state	Ссонfirmation	UK CA	ABS	
Marine / Shipping	ссон other Confirmation	UK CA Miscellaneous	ABS	-
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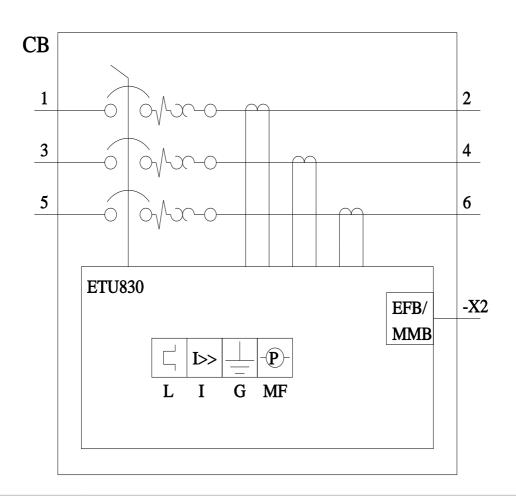




3VA64406KM310AA0 Page 4/6

8/15/2023

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