SIEMENS

Data sheet

3VA6140-5KM41-2AA0



Circuit breaker 3VA6 UL Frame 150 breaking capacity class M 35kA @ 480V 4pole, Line protection ETU830, LIG, In=40A overload protection, 100% rated Ir=16A...40A Short-circuit protection Ii=1.5...12 x In Ground-fault protection Ig=0.375...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	MDAE
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	2.4 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	0.8 W
mechanical service life (operating cycles) / typical	25 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	14 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	9 800
electrical endurance (operating cycles) / at 480 V	14 000
electrical endurance (operating cycles) / at 600 V	9 800
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	2.9 kg
Current	
marking / according to UL 489 / 100%-rated breaker	Yes
operational current	
● at 40 °C	40 A
● at 45 °C	40 A
● at 50 °C	40 A
● at 55 °C	40 A
● at 60 °C	40 A
● at 65 °C	40 A
• at 70 °C	40 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	Μ
maximum short-circuit current breaking capacity (Icu)	

• at 240 V	85 kA
• at 415 V	55 kA
• at 690 V	2.5 kA
operating short-circuit current breaking capacity (Ics)	
• at 240 V	85 kA
• at 415 V	55 kA
• at 690 V	2.5 kA
short-circuit current making capacity (Icm)	
• at 240 V	187 kA
• at 415 V	121 kA
• at 690 V	3.8 kA
Switching capacity according to UL 489	
current breaking capacity	
• at 240 V	100 kA
• at 480 V	35 kA
• at 600 V	18 kA
Adjustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
• minimum	15 A
maximum	40 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	60 A
• maximum	480 A
adjustable current response value current / for G-tripping / with standard characteristic	
• initial value	8 A
• full-scale value	40 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	8 A
• maximum	40 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	15 A
• maximum	64 A
adjustable current response value current / of instantaneous short-circuit trip unit	
• minimum	60 A
• maximum	480 A
design of the N-conductor protection	adjustable OFF; 40% to 160%
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	No
undervoltage release	No
voltage trigger	No
trip indicator	No
height [in]	7.8 in
height	198 mm

width [in]		5.51			
width		140			
depth [in]		3.39			
depth		86 n	าทา		
Connections		_			
	lectrical connectors / for main current cir		out connection		
5.	connection / for main current circuit	With	iout		
Auxiliary circuit		_			
	ntacts / for auxiliary contacts	0			
Accessories		_			
	n / optional / motor drive	Yes			
Environmental co	nditions				
protection class II	P / on the front	IP40)		
ambient temperat					
• •	ration / minimum	-25 °			
0.	ration / maximum	70 °			
•	age / minimum	-40 °			
-	age / maximum	80 °	C		
Certificates					
	according to IEC 81346-2	Q			
certificate of suita vessels) / suppler	bility / as approval for NAVAL (no comba	at Yes			
General Produc					
	(u)	୴	জ		EHL
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EMC	Declaration of Conformity		Marine / Shipping		Conter
EMC RCM	Declaration of Conformity	UL CEG-Konf.	Marine / Shipping		Confirmation
EMC EMC RCM	UK CA	UL EG-Konf. erous Good			
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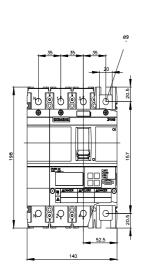
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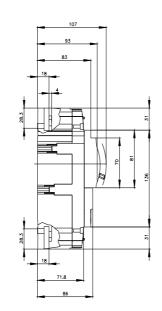
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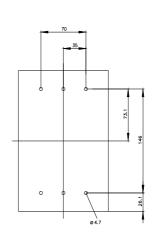
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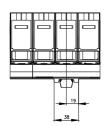
Tender specifications

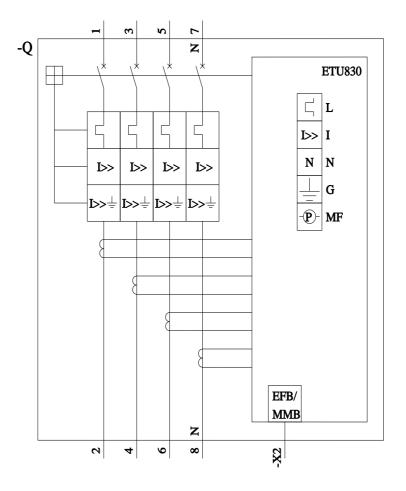
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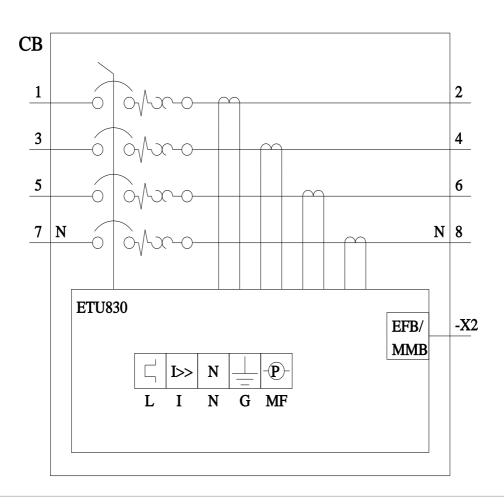












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