SIEMENS

Data sheet

3VA6140-5KM41-0AA0

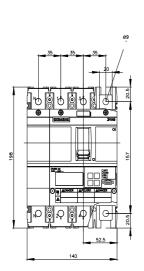


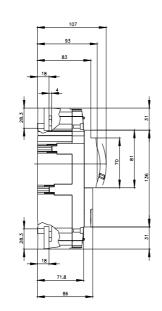
circuit breaker 3VA6 UL frame 150 breaking capacity class M 35kA @ 480V 4-pole, line protection ETU830, LIG, In=40A overload protection Ir=16A...40A short-circuit protection Ii=1.5...12 x In ground-fault protection Ig=0.375...1 x In, tg=0.05-0.8s without connection

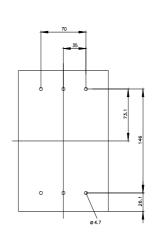
Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	MDAE
design of the product	System protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design 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	3.2 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
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)	

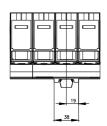
• at 240 V	85 kA
● at 415 V	55 kA
• at 690 V	2.5 kA
operating short-circuit current breaking capacity (Ics)	
• at 240 V	85 kA
• at 415 V	55 kA
● at 690 V	2.5 kA
short-circuit current making capacity (Icm)	
• at 240 V	187 kA
• at 415 V	121 kA
• at 690 V	3.8 kA
Switching capacity according to UL 489	
current breaking capacity	
• at 240 V	100 kA
• at 480 V	35 kA
• at 600 V	18 kA
	TO 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	40 A
• 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 I2t 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	
undervoltage release	No
voltage trigger	No
• trip indicator	No
height [in]	7.8 in
height	198 mm

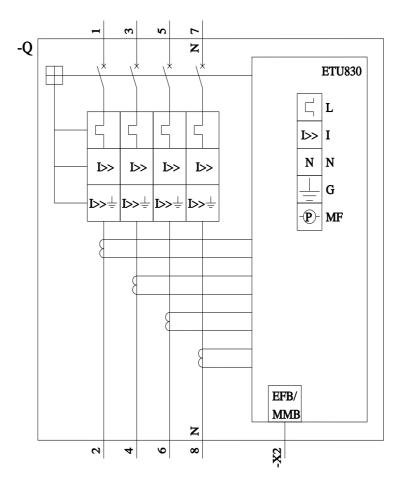
width [in]		5.51	in		
width		140 r	nm		
depth [in]		3.39	in		
depth		86 m	m		
Connections					
arrangement of electric	cal connectors / for main o	current circuit With	out connection		
	ection / for main current ci		out		
Auxiliary circuit					
	s / for auxiliary contacts	0			
Accessories		Ŭ			
product extension / op	tional / motor drive	Yes			
Environmental condition		103			
		1040			
protection class IP / or		IP40			
ambient temperature	/ i i	05.8	0		
 during operation 		-25 °			
 during operation 		70 °C			
during storage /		-40 °			
during storage /	maximum	80 °C	;		
Certificates					
reference code / accor		Q			
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vessels) / supplement General Product App					
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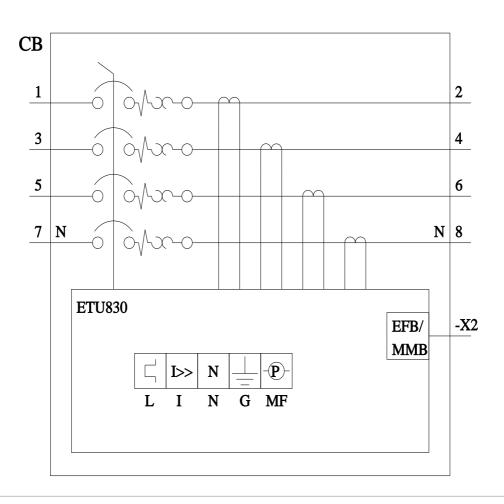












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