SIEMENS

Data sheet

3VA6140-7KM41-2AA0



Circuit breaker 3VA6 UL Frame 150 breaking capacity class C 100kA @ 480V 4-pole, 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	CDAE
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	С
maximum short-circuit current breaking capacity (Icu)	

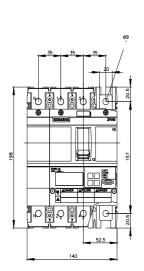
• at 240 V	150 kA
• at 415 V	110 kA
• at 690 V	2.5 kA
operating short-circuit current breaking capacity (lcs)	
• at 240 V	150 kA
• at 415 V	110 kA
• at 690 V	2.5 kA
short-circuit current making capacity (Icm)	
• at 240 V	330 kA
• at 415 V	242 kA
• at 690 V	3.8 kA
Switching capacity according to UL 489	
current breaking capacity	
• at 240 V	200 kA
• at 480 V	100 kA
• at 600 V	35 kA
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	
undervoltage release	No
-	No
voltage trigger trip indicator	
• trip indicator	7.8 in
height [in]	
height	198 mm

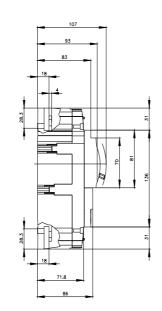
width [in]			5.51 in		
width			140 mm		
depth [in]			3.39 in		
depth		_	86 mm		
Connections					_
arrangement of electrical connectors / for main current circuit			Without connection		
type of electrical connection / for main current circuit		ircuit	Without		
uxiliary circuit		_			_
number of CO contacts	/ for auxiliary contacts	_	0		
ccessories			~		
product extension / opti			Yes		
nvironmental conditio		_	10.40	_	_
protection class IP / on	the front		IP40		
ambient temperature			25 °C		
during operation			-25 °C 70 °C		
 during operation during storage / I 			-40 °C		
during storage / I during storage / I			-40 °C 80 °C		
ertificates		- - -			
reference code / accord	ting to JEC 81346-2		Q		
	as approval for NAVAL	(no combat	Yes		
General Product App					
ccc		UL	UL		
EMC	Declaration of Confe	ormity	Marine / Shipping		other
RCM	UK CA	C C EG-Konf.	ABS		<u>Miscellaneous</u>
other		Dangerous Goo	d		
Confirmation	Miscellaneous	Transport Informa	tion		
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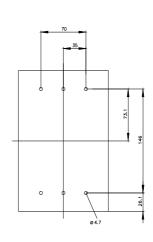
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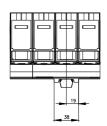
http://www.siemens.com/cax

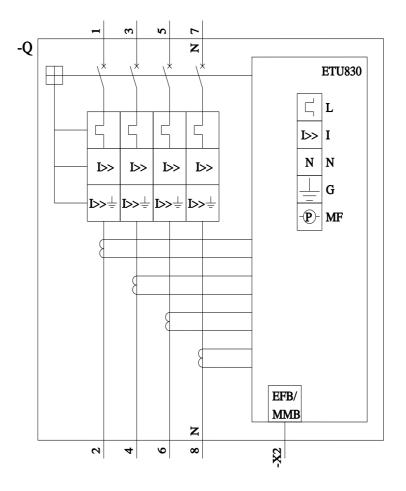
Tender specifications http://www.siemens.com/specifications

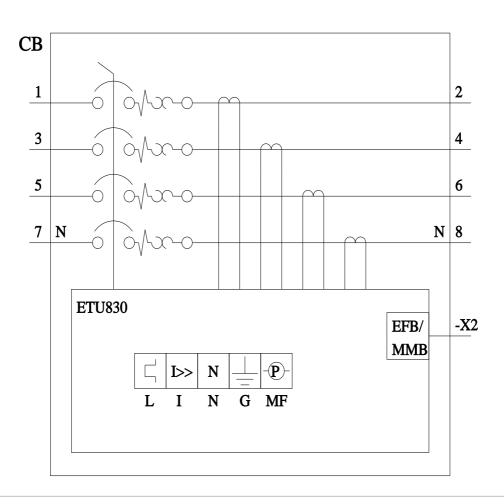












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