SIEMENS

Data sheet

3VA6140-7KM31-0AA0

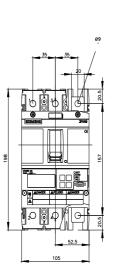


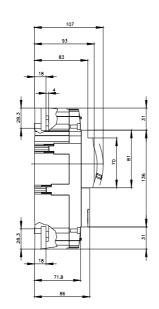
circuit breaker 3VA6 UL frame 150 breaking capacity class C 100kA @ 480V 3-pole, line protection ETU830, LIG, In=40A overload protection Ir=16A...40A short-circuit protection Ii=1.5...12 x In ground-fault protection Ig=0.375...1 x In, tg=0.05-0.8s without connection

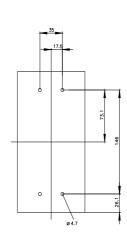
Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	CDAE
design of the product	System protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design of the overcurrent release	ETU830
protection function of the overcurrent release	LIG
number of poles	3
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-conductor
product function	
 communication function 	Yes
 other measurement function 	Yes
Net Weight	2.5 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	C
maximum short-circuit current breaking capacity (Icu)	

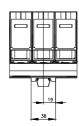
- 4:45 V10 PA- eff 20V V2.5 A- eff 20V V2.5 A- eff 20V V2.5 A- eff 20V V2.5 A- eff 20V 22.5 A- eff 20V 22.6 A- eff 20V 33.6 AAffiguestic parameters		
• er 00 Y2 5 kAoperating stor-chock current breaking capacity (tos)150 kA• et 240 Y150 kA• et 60 V25 kAstor chock current making capacity (ton)300 kA• et 240 Y300 kA• et 240 Y20 k	• at 240 V	150 kA
operating short-cloub current breaking capacity (box) 150 A • • • • • • • • • • • • • • • • • • •	• at 415 V	110 kA
is 240 v150 kA•••••••••••••••••••••••••••••••••••	• at 690 V	2.5 kA
•••••••••••••••••••••••••••••••••••	operating short-circuit current breaking capacity (lcs)	
- if 890 V25 kAshort derot turner having capacity (cm)330 kA- if 400 V330 kA- if 400 V38 kASwitching capacity according to UL 40038 kACurner to basking capacity200 kA- if 400 V200 kA- if 400 V36 kAAdjustAble parameters36 kA- adjustAble parameters40 A- adjustAble parameters20 kA- innimum15 A- innimum0.5 s- innimum0.5 s- innimum20 kA- innimum40 A- adjustAble parameters20 kA- innimum0.5 s- innimum0.5 s- innimum40 A- innimum0.6 s- innimum0.6	• at 240 V	150 kA
aber-friend numeri making capacity (lem) 30 kA • at 240 Y 30 kA • at 450 V 38 kA • at 460 V 38 kA • at 460 V 20 kA • at 600 V 36 kA Adjustable paparet 56 kA Adjustable paparet 15 A • at 600 V 35 kA Adjustable response value deling surrent (h) / for L-tripping / with 22 • at 600 V 25 s • at 600 V 55 s • at 600 V 60 A • at 600 V 60 A • at 600 V 15 A	• at 415 V	110 kA
al 240 V330 kAat 850 V338 kASwitching capacity according to UL 459	• at 690 V	2.5 kA
e. at 415 V242 VASwitching suppacity according to UL-489current breaking suppacity• at 240 V200 KA• at 240 V200 KA• at 480 V35 KAAdjustable presente subue setting current (h) / of the L-tip / with continue setting current (h) / of the L-tip / with continue setting current (h) / of the L-tip / with continue setting current (h) / of the L-tip / with continue setting current (h) / of the L-tip / with continue setting current (h) / of the L-tip / with continue setting current (h) / of the L-tip / with continue setting current (h) / of the L-tip / with continue setting current (h) / of the L-tip / with continue setting current (h) / of the L-tip / with continue setting current (h) / of the L-tip / with continue setting current (h) / of the L-tip / with setting current (h) / of the L-tip / with setting current (h) / of the L-tip / with setting current (h) / of the L-tip / with setting current (h) / of the L-tip / with setting current (h) / of the L-tip / with setting current (h) / of the L-tip / with continue setting current (h) / of the L-tip / with continue setting current (h) / of the L-tip / with continue setting current (h) / of the L-tip / with continue setting current (h) / of the L-tip / with continue setting current (h) / for C-tip / with continue setting current (h) / for C-tip / with continue setting current (h) / for C-tip / with continue setting current (h) / for C-tip / with continue setting current (h) / for C-tip / with continue setting current (h) / for C-tip / with continue setting current (h) / for C-tip / with continue setting current (h) / for C-tip / with continue setting current (h) / for C-tip / with continue setting current (h) / for C-tip / h) / h / h / h / h / h / h / h / h /	short-circuit current making capacity (Icm)	
a di 60 v 3.8 kA Switching capacity according to UL 409 200 kA at 240 v 200 kA at 240 v 100 kA at 360 v 35 kA Adjustable parameters adjustable reponse value setting current (h) / of the L tip / with L2 (charactenistic anisimum 15 A anisimum 0.5 s anisimum 60 A anisimum 0.05 s anininimum 0.05 s an	• at 240 V	330 kA
Switching capacity according to UL 443 current threaking capacity • at 24 0 V • at 800 V Siska Adjustable response value setting current (h) / of the L-trip / with 12t characteristic • maximum • C5 s • maximum • maximum • maximum • maximum • maximum • maximum • full scalab • initial value • full scalab • maximum • full scalab • maximum • maximum • full scalab • maximum	• at 415 V	242 kA
current breaking capacity 200 kA • at 260 V 35 kA • at 260 V 40 A • adjustable response value setting current (I) / for I - tripping / with 121 60 A • innarium 40 A • adjustable response value current / for C - tripping / with 121 40 A • innarium 0.55 s • adjustable response value setting current (Ig) / for G - tripping / with 121 60 A • innarium 0.05 s • adjustable response value setting current (Ig) / for G - tripping / with 121 60 A • innarium 0.05 s • adjustable response value day line (Ig) / for G - tripping / with 121 • innarium 0.05 s • adjustable response value day line (Ig) / for G - tripping / with 121 • innarium 0.05 s <tr< td=""><td>• at 690 V</td><td>3.8 kA</td></tr<>	• at 690 V	3.8 kA
at 240 V200 kA• at 480 V30 kAAdjustable response value setting current (th) / of the L-tip / with 12t characteristic15 A• minimum40 A• minimum0.5 s• minimum0.4 A• minimum0.4 A• minimum0.5 s• minimum0.4 A• minimum0.4 A• minimum0.4 A• minimum0.4 A• minimum0.5 s• minimum0.4 A• minimum0.4	Switching capacity according to UL 489	
• at 480 V 100 VA adjustable response value setting current (b) / of the L-tip / with 12 characteristic Adjustable response value setting current (b) / of the L-tip / with 12 characteristic • maximum 40 A adjustable response value delay time (tr) / tor L-tirping / with 121 characteristic S • minimum 0.5 s • minimum 60 A • full-scale value 15 A • full-scale value 60 A • full-scale value setting current (g) / for C-tripping / with 12 characteristic 75 A • minimum 0.05 s • minimum 0.05 s • djustable response value delay time (g) / for C-tripping / with 12 characteristic • minimum 0.A <	current breaking capacity	
+ ei 600 V 35 kA Adjustable parametra	• at 240 V	200 kA
Adjustable parameters Image: setting current (if) / of the L-tip / with 12 characteristic • minimum 15 A • minimum 40 A adjustable response value delay time (ir) / for L-tipping / with 12 characteristic 0.5 s • maximum 0.6 A • maximum 40 A • adjustable response value setting current (ii) / for I-tripping / with 12 characteristic 0.6 s • minimum 0.6 A • maximum 40 A • adjustable response value setting current (ii) / for I-tripping / with 12 characteristic 0.6 A • initia value 15 A • initia value 15 A • initia value 15 A • initia value 0.05 s • initia value 0.06 s • initia value </td <td>• at 480 V</td> <td>100 kA</td>	• at 480 V	100 kA
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12 characteristic 15 A • maximum 40 A adjustable response value delay time (tr) / for L-tripping / with 12L 26 s • minimum 0.5 s • minimum 60 A • maximum 40 A adjustable response value setting current (ii) / for L-tripping 60 A • minimum 400 A adjustable current response value current / for G-tripping / with 55 A • initial value 15 A • initial value 15 A • initial value 15 A • initial value 0.05 s • maximum 0.05 s • minimum 0.05 s • minimum 0.05 s • minimum 0.05 s • minimum 0.05 s <t< td=""><td>Adjustable parameters</td><td></td></t<>	Adjustable parameters	
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12t characteristic 0.05 s • maximum 0.8 s adjustable setting current (InN) / for N-tripping 0 A • minimum 0 A • maximum 0 A adjustable current response value current / of instantaneous short-circuit trip unit 60 A • minimum 480 A product function / grounding protection Yes total break time / for G-tripping / with standard characteristic 0.05 s • full-scale value 0.05 s • full-scale value 0.05 s • full-scale value 0.8 s Mechanical Design Imagination of the product component • undervoltage release No • voltage trigger No • trip indicator No height [in] 7.8 in height 198 mm	• maximum	40 A
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• full-scale value0.8 sMechanical Designproduct component• undervoltage releaseNo• voltage triggerNo• trip indicatorNoheight [in]7.8 inheight198 mm	total break time / for G-tripping / with standard characteristic	
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product component • undervoltage release • voltage trigger • trip indicator height [in] 7.8 in height 198 mm	• full-scale value	0.8 s
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• trip indicator No height [in] 7.8 in height 198 mm	undervoltage release	No
height [in] 7.8 in height 198 mm	voltage trigger	No
height 198 mm	trip indicator	No
	height [in]	7.8 in
	height	198 mm
width [in] 4.13 in	width [in]	4.13 in

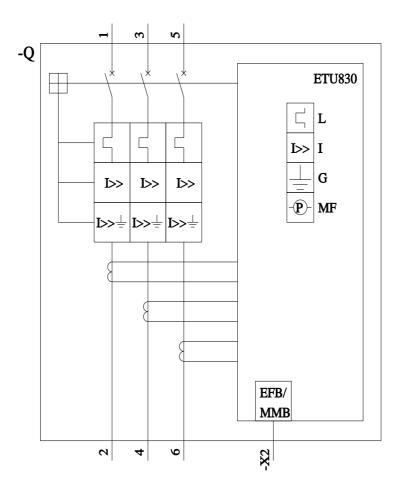
width			105 mm		
depth [in]			3.39 in		
depth			86 mm		
Connections					
arrangement of electrica	al connectors / for main c	current circuit	Without connection		
type of electrical connect	tion / for main current ci	rcuit	Without		
Auxiliary circuit					
number of CO contacts	/ for auxiliary contacts		0		
Accessories			•		
product extension / optic	anal / motor drivo		Yes		
· ·		_	165		
Environmental condition		_	10.44		
protection class IP / on t	the front		IP40		
ambient temperature					
 during operation / 	' minimum		-25 °C		
 during operation / 	maximum		70 °C		
 during storage / n 	ninimum		-40 °C		
 during storage / n 	naximum		80 °C		
Certificates					
reference code / accord	ing to IEC 81346-2		Q		
certificate of suitability /	-	(no combat	Yes		
vessels) / supplement S					
General Product Appr	oval				
(m)	Confirmation	ŝ	ŝ	\sim	Miscellaneous
(\mathbf{m})		(VL)	(VL)	(D'E)	
			\sim	VDE	
General Product Ap-					
General Product Ap- proval	EMC	Declaration of C	Conformity	Marine / Shipping	
-	EMC	Declaration of C	•	Marine / Shipping	
-	емс	Declaration of C	•	Marine / Shipping	
-	емс	Declaration of C	•	Marine / Shipping	
-	ЕМС	CE			
-	EMC	Declaration of C	•	Marine / Shipping	BUREAU VERIAS
-	EMC	CE	•		BUREAU VERITAS
Freedom	EMC RCM	CE EG-Konf.	•		B U RE AU VERITAS
-	EMC RCM	CE	•		BUREAU VERITAS
Proval	EMC ECM	CEG-Konf.	UK CA	ABS	
Proval	EMC ECM	CE EG-Konf.	UK CA		Dangerous Good
Freedom	EMC ECM	CEG-Konf.	UK CA	ABS	
Proval	EMC ECM	CEG-Konf.	UK CA	ABS	
Proval	EMC ECM	CEG-Konf.	UK CA	ABS	
Freedom	EMC ECM	CEG-Konf.	UK CA	ABS	-
proval EEEE Marine / Shipping	EMC ECM	CEG-Konf.	UK CA	ABS	
proval EEEE Marine / Shipping	RCM	CEG-Konf. other <u>Miscellaneou</u>	UK CA	ABS	
proval EEEE Marine / Shipping	RCM	CEG-Konf. other Miscellaneous	s Confirmation	ABS	
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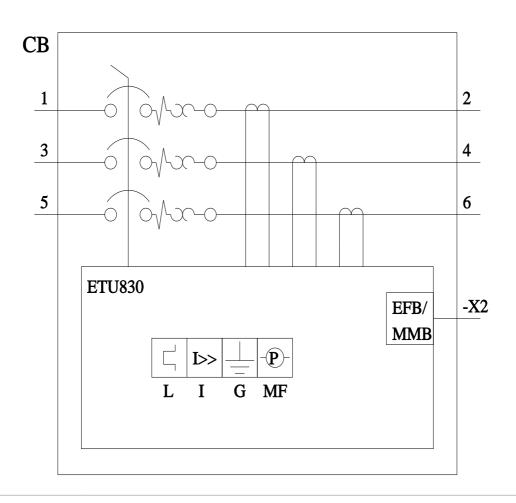












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