SIEMENS

Data sheet

3VA6225-5KM41-0AA0

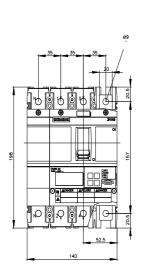


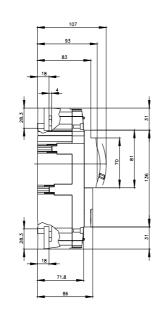
circuit breaker 3VA6 UL frame 250 breaking capacity class M 35kA @ 480V 4-pole, line protection ETU830, LIG, In=250A overload protection Ir=100A...250A short-circuit protection Ii=1.5...10 x In ground-fault protection Ig=0.2...1 x In, tg=0.05-0.8s without connection

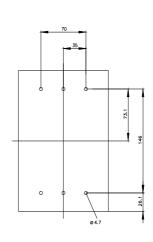
Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	MFAE
design of the product	System protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design 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	42 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	14 W
mechanical service life (operating cycles) / typical	25 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	12 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	8 400
electrical endurance (operating cycles) / at 480 V	12 000
electrical endurance (operating cycles) / at 600 V	8 400
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	250 A
● at 45 °C	250 A
● at 50 °C	250 A
● at 55 °C	238 A
• at 60 °C	225 A
● at 65 °C	213 A
• at 70 °C	200 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	Μ
maximum short-circuit current breaking capacity (Icu)	

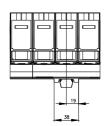
••••••••••••••••••••••••••••••••••••		
• • # 200 Y3 kAoperating short-book current breaking capacity (ics)85 kA• • • # 240 Y85 kA• • • • # 240 Y3 kA• • • • # 240 Y107 kA• • • • • # 240 Y127 kA• • • • • # 240 Y127 kA• • • • • • # 240 Y127 kA• • • • • • • • • • • • • • • • • • •	• at 240 V	85 kA
operating short-fund current breaking capacity (ics) 85 kA ••••••••••••••••••••••••••••••••••••		
a di Alo V Ba ba a di Alo V 127 bA a di Alo V 100 A a di Alo Alo Calo V 100 A a di Alo		3 KA
e 41 S V55 VAshort - crout current making capacity (icm)5 KAe 10 S V10 VA• 11 4 S V121 VA• 11 4 S V100 VA• 11 5 VA100 VA• 11 5 VA <td></td> <td></td>		
• #1 #00 V3 k/Ashort-circuit current making capacity (icm)137 k A• #1 20 V137 k A• #1 415 V121 k A• #1 415 V121 k A• #1 416 V100 k A• #1 40 V <t< td=""><td></td><td></td></t<>		
sheat-could current making capacity (lem) 137 KA • at 240 V 137 KA • at 460 V 45 KA • at 460 V 45 KA • at 460 V 100 KA • at 600 V/47 V 15 KA • at 600 V/47 V 16 KA • at 600 V 100 A		
a137 VAa ta 240 V127 VAa ta 15 V121 VAa ta 15 V121 VAa ta 240 V4 5 VA2 30 VA100 VAa ta 240 V100 VAa ta 240 V250 Aa ta 240 V250 Aa ta 240 V250 Aa ta 250 VA100 VAa ta 250 VA100 VAa ta 250 VA250 Aa ta 250 VA100 VAa ta 250 V		3 KA
4.415 V121 kAa.15 400 V4.5 kASwitching capacity according to UL-48900 kA- alt 240 V30 kA- alt 240 V18 kA- alt 240 Parameters20 A- alt 240 Parameters00 A- alt 240 Parameters100 A- alt 240 Parameters100 A- alt 240 Parameters20 A- alt 240 Parameters20 A- alt 240 Parameters100 A- alt 240 Parameters20 A- alt 240 Par		
4.5 kASwitching capacity caccording to UL 499• at 240 V• at 240 V• at 240 V• at 800 V/S47 V• at 800 V• at 800 V/S47 V/S4		
Switching capacity according to UL 449 00 kA current breaking capacity 00 kA et 480 V 35 kA et 480 V/stA V 18 kA et 800 V/stA V 18 kA adjustable parameters adjustable response value setting current (I/) / for L-tripping / with I2 characteristic 00 A enaminum 100 A enaminum 05 s enaminum 13 a adjustable response value delay time (tr) / for L-tripping / with I2 5 s chranatinum 13 a enaminum 250 A enaminum 250 A enaminum 3 a adjustable response value delay time (tr) / for L-tripping / with 50 A enaminum 250 A enaminum 05 s enaminum 08 s adjustable response value delay time (tg) / for G-tripping / with 08 s adjustable response value delay time (tg) / for G-tripping / with 0		
current treaking capacity 00 kA • at 240 V 35 kA • at 800 V 35 kA • at 800 V 18 kA • at 800 V 18 kA Adjustable progress value setting current (i/) / of the L-trip / with f2 characteristic 100 A • minimum 100 A • minimum 250 A • minimum 15 s • minimum 15 s • minimum 37 5 A • maximum 250 A • minimum 37 5 A • minimum 50 A • full scale value 250 A • digustable response value setting current (i) / for L-tripping / with standard characteristic 50 A • initial value 50 A • full scale value 250 A • initial value 0.05 s • initial value 0		4.5 kA
al 240 V100 kA• at 800 V35 kA• at 800 VY347 V18 kA• at 800 VY347 V100 A• at 800 VY347 V250 A• at 800 VY347 V13 a• at 800 VY347 VY13 a• at 800 VY347 VY250 A• at 800 VY347 VY10 A• at 800 VY340	Switching capacity according to UL 489	
• al 480 V35 kA• at 600 V/347 V18 kAAdjustable response value setting current (I/) / 0 fu L-trip vulth 12 characteristic100 A• minimum250 Aadjustable response value delay time (tr) / for L-tripping / with 12 characteristic5• minimum0.5 s• minimum3.5 aadjustable response value setting current (III) / for L-tripping / with 12 characteristic5• minimum3.5 aadjustable response value setting current (II) / for L-tripping / with 12 characteristic5• minimum3.75 A• minimum2.500 Aadjustable current response value setting current (II) / for C-tripping / with 10 to characteristic500 A• minimum0.05 s• minimum50 A• minimum250 A•	current breaking capacity	
• at 600 Y/347 V 18 kA • at 600 V 18 kA • at 600 V 18 kA • at 600 V 18 kA • maximum 100 A • maximum 100 A • maximum 250 A • maximum 18 kA • maximum 100 A • maximum 250 A • maximum 18 kA • maximum 18 kA • maximum 18 kA • maximum 250 A • maximum 0.05 S • minimum 0.05 S • minimum<	• at 240 V	100 kA
ei 600 V 18 kA Adjustable parameters	• at 480 V	35 kA
Adjustable response value setting current (if) / of the L-trip / with L2t characterisic 100 A • minimum 250 A • adjustable response value delay time (it) / for L-tripping / with L2t characterisic 0.5 s • minimum 13 s • adjustable response value setting current (iii) / for L-tripping / with L2t characterisic 0.5 s • maximum 375 A • maximum 2500 A adjustable response value setting current (iii) / for L-tripping / with standard characteristic 500 A • initial value 50 A • initial value 50 A • initial value 0.05 s • maximum 0.05 s • maximum 0.05 s • minimum 250 A	• at 600 Y/347 V	18 kA
adjustable response value setting current (if) / of the L-trip / with I2 characteristic minimum maximum diustable response value delay time (tr) / for L-tripping / with I2 characteristic minimum maximum adjustable response value setting current (ii) / for L-tripping / with i minimum minimum minimum maximum adjustable response value setting current (ii) / for G-tripping / with adjustable response value current / for G-tripping / with i minimum		18 kA
Izi characteristic 00 A • maximum 250 A adjustable response value delay time (tr) / for L-tripping / with IZI - • minimum 0.5 s • minimum 13 s adjustable response value setting current (li) / for L-tripping / with IZI - • minimum 250 A adjustable cresponse value setting current (li) / for L-tripping / with IZI standard characteristic - • initial value 250 A • full-scale value 0.05 s • maximum 0.05 s • maximum 0.05 s • minimum 0.05 s • maximum 0.05 s • minimum 0.05 s	Adjustable parameters	
• minimum 100 A • maximum 250 A adjustabie response value delay time (tr) / for L-tripping / with 121 • minimum 0.5 s • maximum 13 s adjustabie response value setting current (ii) / for I-tripping 375 A • maximum 2500 A adjustabie current response value current / for C-tripping / with sistandar characteristic 50 A • full-scale value 250 A adjustabie response value delay time (tg) / for C-tripping / with 100 characteristic 50 A • full-scale value 250 A • full-scale value 250 A • minimum 0.05 s • minimum 0.05 s • maximum 0.05 s • minimum 250 A • adjustable response value delay time (tg) / for G-tripping / with 122 characteristic • minimum 0.05 s • minimum 0.05 s • minimum 0.05 s • minimum 0.05 s • mininimum 250 A • adjustable		
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chiarcteristic in inimum 0.5 s in maximum 13 s in the second seco		250 A
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• minimum 375 A • maximum 2 500 A adjustable current response value current / for G-tripping / with 50 A • full-scale value 50 A adjustable response value delay time (tg) / for G-tripping / with 200 A adjustable response value delay time (tg) / for G-tripping / with 0.05 s • maximum 0.05 s • maximum 0.8 s adjustable response value setting current (tg) / for G-tripping / with 50 A • minimum 0.05 s • maximum 0.05 s • minimum 0.05 s • minimum 50 A • minimum 250 A adjustable current (nN) / for N-tripping * • minimum 50 A • minimum 250 A adjustable current (nN) / for N-tripping / with stantaneous short-current / of instantaneous		
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• initial value0.05 s• full-scale value0.8 sMechanical DesignNo• undervoltage releaseNo• voltage triggerNo• trip indicatorNo	product function / grounding protection	Yes
• full-scale value 0.8 s Mechanical Design	total break time / for G-tripping / with standard characteristic	
Mechanical Design product component • undervoltage release No • voltage trigger No • trip indicator No	• initial value	0.05 s
product component	• full-scale value	0.8 s
• undervoltage release No • voltage trigger No • trip indicator No	Mechanical Design	
voltage trigger trip indicator No	product component	
• trip indicator No	undervoltage release	No
	 voltage trigger 	No
height [in] 7.8 in	trip indicator	No
	height [in]	7.8 in

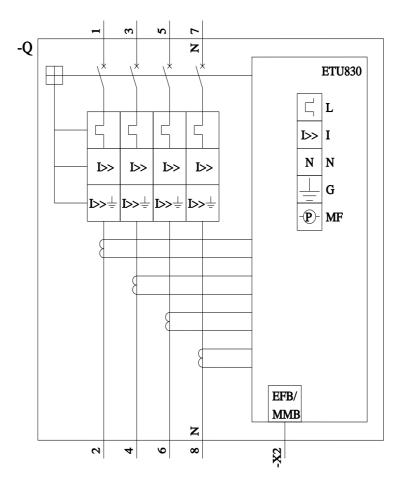
height		198 mm	1		
width [in]		5.51 in			
width		140 mm	ı		
		3.39 in	,		
depth [in]			86 mm		
depth		80 1111	_	_	
Connections					
arrangement of electrical conne			connection		
type of electrical connection / for	or main current circuit	Without			
Auxiliary circuit		_			
number of CO contacts / for au	xiliary contacts	0			
Accessories					
product extension / optional / m	notor drive	Yes			
Environmental conditions					
protection class IP / on the fron	t	IP40			
ambient temperature					
 during operation / minimum 	um	-25 °C			
 during operation / maxim 		70 °C			
during storage / minimun		-40 °C			
during storage / maximul		80 °C			
Certificates		80 C	_		
			_		
reference code / according to I		Q			
certificate of suitability / as approved a supplement SB	roval for NAVAL (no combat	Yes			
General Product Approval					
General Froduct Approval					
	Confirmation			^	Miscellaneous
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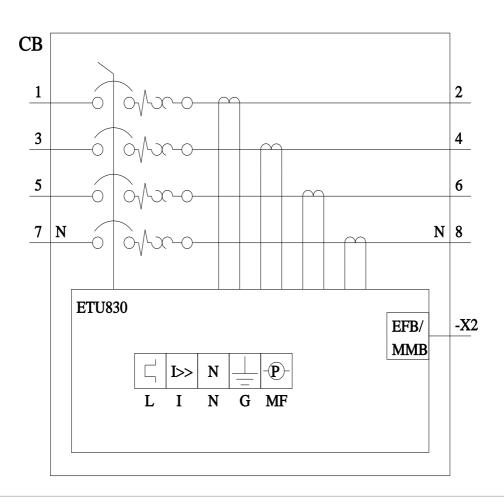












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