SIEMENS

Data sheet

3VA6440-7KT31-0AA0



circuit breaker 3VA6 UL frame 600 breaking capacity class C 100kA @ 480V 3pole, line protection ETU856, LSI, In=400A overload protection Ir=160A...400A short-circuit protection Isd=0.6..10x In, Ii=1.5..12x In N conductor protection optionally with external current transformer, up to 160% ground-fault alarm message via EFB300 or COM without connection

Model				
product brand name	SENTRON			
product designation	Molded-case circuit breaker			
product designation / according to UL file	CLAE			
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	ETU856			
protection function of the overcurrent release	LSI-G-alarm only			
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	70 W			
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	23.33 W			
mechanical service life (operating cycles) / typical	20 000			
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	4 000			
electrical endurance (operating cycles) / at AC-1 / at 690 V	3 500			
electrical endurance (operating cycles) / at 480 V	4 000			
electrical endurance (operating cycles) / at 600 V	3 500			
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	Yes			
ground-fault monitoring version	Summation current formation L-conductor			
product function				
 communication function 	Yes			
 other measurement function 	Yes			
Net Weight	5.3 kg			
Current				
marking / according to UL 489 / 100%-rated breaker	No			
operational current				
• at 40 °C	400 A			
● at 45 °C	400 A			
● at 50 °C	400 A			
● at 55 °C	400 A			
● at 60 °C	400 A			
● at 65 °C	400 A			
● at 70 °C	400 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	6 kA
operating short-circuit current breaking capacity (Ics)	
• at 240 V	150 kA
• at 415 V	110 kA
• at 690 V	6 kA
short-circuit current making capacity (Icm)	
 at 240 V at 415 V 	330 kA 242 kA
• at 690 V	242 KA 9 KA
Switching capacity according to UL 489	3 MA
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	160 A
• maximum	400 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 (Isd) / of S-trip / with I0t characteristic	
• minimum	240 A
• maximum	4 000 A
adjustable response value setting current (Isd) / of S-trip / with I2t characteristic	
• minimum	240 A
• maximum	4 000 A
adjustable response value delay time (tsd) / for S-tripping / with I0t characteristic	
• minimum	0.05 s
• maximum	0.5 s
adjustable response value delay time (tsd) / for S-tripping / with I2t characteristic	
• minimum	0.05 s
maximum	0.5 s
adjustable response value setting current (li) / for I-tripping	600 A
• minimum	600 A
maximum directable current response value current / for C tripping / with	4 800 A
adjustable current response value current / for G-tripping / with standard characteristic	
initial value	80 A
• full-scale value	400 A
adjustable response value delay time (tg) / for G-tripping / with I0t characteristic	
• minimum	0.05 s
• maximum	0.8 s
adjustable response value setting current (Ig) / for G-tripping / with I2t characteristic	
• minimum	80 A
• maximum	400 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	0 A
• maximum	0 A
adjustable delay time / of S-trip / with I2t characteristic	0.5 s

adjustable current respo	onse value current / of inst	tantaneous				
short-circuit trip unit		lantaneous				
 minimum 			600 A			
 maximum 			4 800 A			
design of the N-conduct	tor protection		adjustable OFF; 20% to 160%			
product function / groun	iding protection		Yes			
total break time / for G-f	tripping / with standard cha	aracteristic				
 initial value 			0.05 s			
 full-scale value 			0.8 s			
Mechanical Design						
product component						
 undervoltage rele 	ease		No			
 voltage trigger 			No			
 trip indicator 			No			
height [in]			9.76 in			
height			248 mm			
width [in]			5.43 in			
width			138 mm			
depth [in]			4.33 in			
depth			110 mm			
Connections						
	al connectors / for main cu	Irrent circuit	Without co	onnection		
	ction / for main current circ		Without			
Auxiliary circuit		-				
number of CO contacts	/ for auxiliary contacts		0			
Accessories			U			
product extension / opti	onal / motor drive		Yes			
Environmental condition			165	_		_
protection class IP / on			IP40			
ambient temperature	/		05.00			
 during operation 			-25 °C			
during operation			70 °C			
during storage / r			-40 °C			
during storage / r	naximum		80 °C			
Certificates			-	_		
reference code / accord			Q			
certificate of suitability / vessels) / supplement S	as approval for NAVAL (r	io combat	Yes			
General Product App						
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Confirmation		\sim		\sim	~	Miscellaneous
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DNV	RMRS					

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA6440-7KT31-0AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3VA6440-7KT31-0AA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

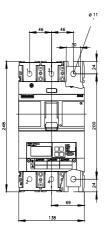
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6440-7KT31-0AA0

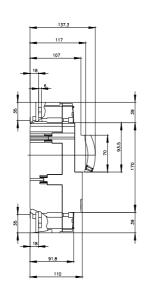
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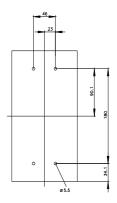
http://www.siemens.com/cax

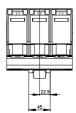
Tender specifications

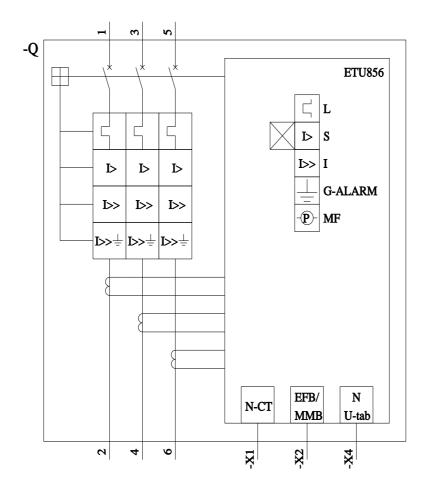
http://www.siemens.com/specifications

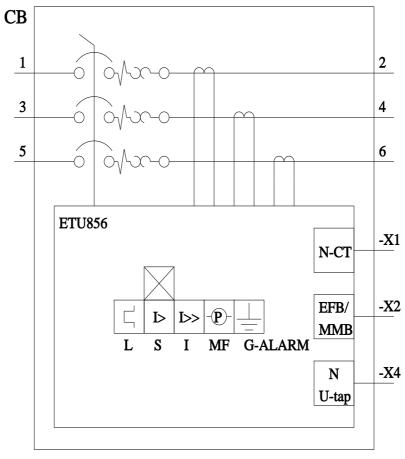












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