SIEMENS

Data sheet

3VA6440-7KQ41-0AA0



circuit breaker 3VA6 UL frame 600 breaking capacity class C 100kA @ 480V 4-pole, line protection ETU860, LSIG, In=400A overload protection Ir=160A...400A short-circuit protection Isd=0.6..10x In, Ii=1.5..12x In N conductor protection adjustable (OFF, up to 160%) 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	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	ETU860				
protection function of the overcurrent release	LSIG				
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	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	No				
ground-fault monitoring version	Summation current formation L + N-conductor				
product function					
 communication function 	Yes				
 other measurement function 	Yes				
Net Weight	6.9 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 at 690 V 	110 kA 6 kA
short-circuit current making capacity (Icm)	0 KA
at 240 V	330 kA
• at 415 V	242 kA
• at 690 V	9 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	160 A
• maximum	400 A
adjustable response value delay time (tr) / for L-tripping / with l2t 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 l0t 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	
• minimum	600 A
• maximum	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 l0t 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	0.05
• minimum	0.05 s
maximum	0.8 s
adjustable setting current (InN) / for N-tripping	20.4
• minimum	80 A 600 A
maximum adjustable delay time / of S-trip / with I2t characteristic	600 A 0.5 s
	0.0 5

adjustable current responsion short-circuit trip unit	onse value current / of inst	antaneous					
• minimum			600 A				
 maximum 			4 800 A				
design of the N-conduct	tor protection			e OFF; 20% to 1509	%		
product function / groun	•		Yes	,			
	tripping / with standard cha	aracteristic					
 initial value 			0.05 s				
 full-scale value 				0.8 s			
Mechanical Design			0.0 0				
product component							
undervoltage rele	2250		No				
voltage trigger			No				
 trip indicator 			No				
			9.76 in				
height [in]							
height			248 mm				
width [in]			7.24 in				
width			184 mm				
depth [in]			4.33 in				
depth			110 mm				
Connections			_				
arrangement of electric	al connectors / for main cu	rrent circuit	Without connection				
type of electrical connection	ction / for main current circ	uit	Without				
Auxiliary circuit							
number of CO contacts	/ for auxiliary contacts		0				
Accessories							
product extension / opti	ional / motor drive		Yes				
Environmental conditio	ns						
protection class IP / on	the front		IP40				
ambient temperature							
during operation / minimum		-25 °C					
during operation / maximum		70 °C					
during storage / minimum		-40 °C					
during storage / maximum		30 °C					
Certificates			00 0				
reference code / accord	ling to IEC 81346.2		Q				
	ang to rec 81340-2	o combat	Yes				
vessels) / supplement S		o compat	res				
General Product App							
	Confirmation			\sim		Miscellaneous	
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marine / Shipping		other				Dangerous Good	
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44	(f @))		-				
DNV							
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=3VA6440-7KQ41-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA6440-7KQ41-0AA0

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

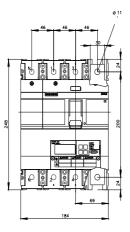
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6440-7KQ41-0AA0

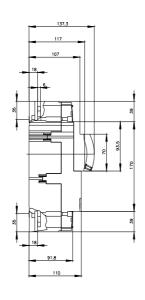
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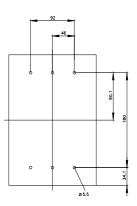
http://www.siemens.com/cax

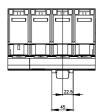
Tender specifications

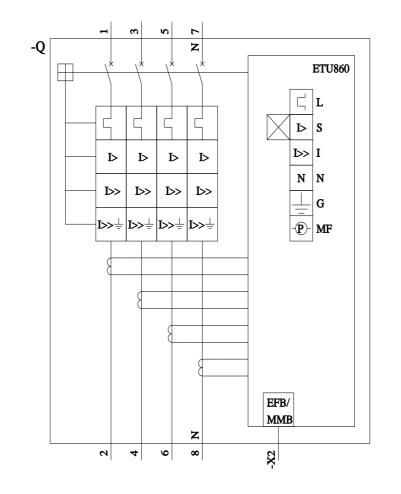
http://www.siemens.com/specifications

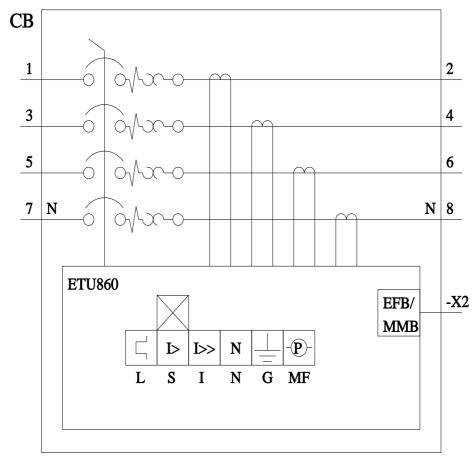












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