SIEMENS

Data sheet

3VA6140-7KQ41-2AA0



Circuit breaker 3VA6 UL Frame 150 breaking capacity class C 100kA @ 480V 4pole, Line protection ETU860, LSIG, In=40A overload protection, 100% rated Ir=16A...40A 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=0.375...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	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	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 (Ics)	
• 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 240 V • at 415 V	242 kA
• at 690 V	3.8 kA
Switching capacity according to UL 489	5.0 M
current breaking capacity	
• at 240 V	200 kA
• at 240 V	100 kA
• at 600 V	35 kA
Adjustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with	
I2t characteristic	
• minimum	16 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 (Isd) / of S-trip / with I0t characteristic	
● minimum	24 A
maximum	400 A
adjustable response value setting current (Isd) / of S-trip / with I2t characteristic	
● minimum	24 A
maximum	400 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 (Ii) / for I-tripping	CO A
• minimum	60 A
maximum adjustable current response value current / for G-tripping / with	480 A
adjustable current response value current / for G-tripping / with standard characteristic	
• initial value	15 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	15 A
• maximum	40 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	15 A
• maximum	64 A
adjustable delay time / of S-trip / with I2t characteristic	0.5 s

adjustable current resp short-circuit trip unit	oonse value current / of in	stantaneous					
• minimum			60 A				
 maximum 			480 A				
design of the N-condu	ctor protection			ble OFF; 40% to 160%			
product function / grou	•		Yes				
	-tripping / with standard cl	naracteristic					
initial value	apping / mar otarioard of		0.05 s				
full-scale value			0.8 s				
Mechanical Design			0.0 5				
product component			_				
undervoltage rel	10000		No				
÷	lease						
 voltage trigger 				No			
trip indicator			No				
height [in]				7.8 in 198 mm			
height				n			
width [in]			5.51 in				
width			140 mr	n			
depth [in]			3.39 in				
depth			86 mm				
Connections							
arrangement of electric	cal connectors / for main o	current circuit	Without connection				
type of electrical conne	ection / for main current ci	rcuit	Withou	t			
Auxiliary circuit							
number of CO contacts	s / for auxiliary contacts		0				
Accessories							
product extension / op	tional / motor drive		Yes				
Environmental condition	ons						
protection class IP / or			IP40				
ambient temperature							
 during operation 	n / minimum		-25 °C				
during operation / maximum		70 °C					
		-40 °C					
during storage / minimum during storage / maximum							
Certificates	maximum		00 0				
reference code / accor	ding to IEC 91346 2		Q				
	/ as approval for NAVAL	(no combat	Yes				
General Product App							
General Froduct App	10441						
<u>Confirmation</u>		(UL)			<u>Miscellaneous</u>	EHC	
EMC	Declaration of Confo	rmity		Marine / Shipping		other	
RCM	UK CA	CE EG-Konf.		ABS		<u>Confirmation</u>	
other		Dangerous Go	od				
Missellanceus	Miccolloga	Transport lefe	nation				
Miscellaneous	Miscellaneous	Transport Inform	nation				

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=3VA6140-7KQ41-2AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA6140-7KQ41-2AA0

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

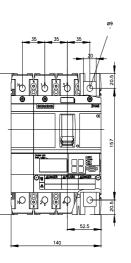
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6140-7KQ41-2AA0

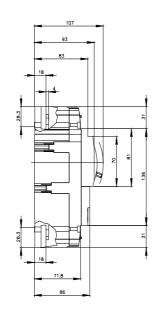
CAx-Online-Generator

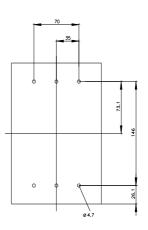
http://www.siemens.com/cax

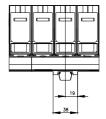
Tender specifications

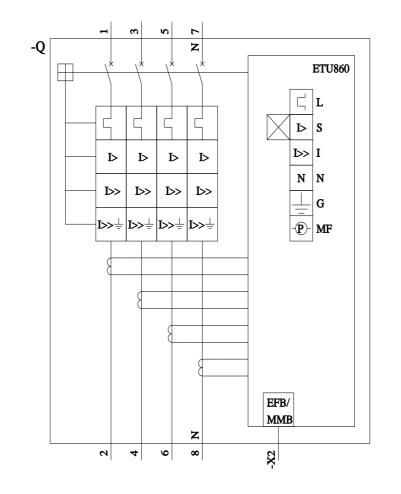
http://www.siemens.com/specifications

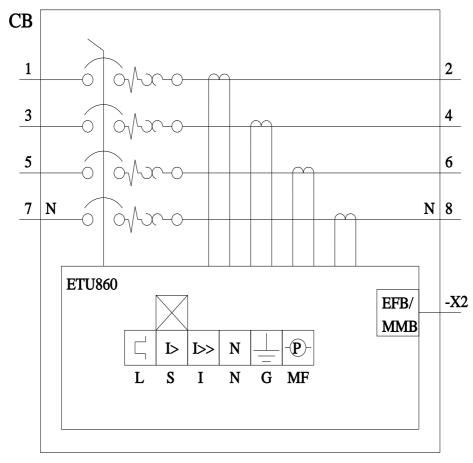












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