SIEMENS

Data sheet

3VA2125-7KQ42-0AA0



circuit breaker 3VA2 IEC frame 160 breaking capacity class C Icu=110kA @ 415V 4-pole, line protection ETU860, LSIG, In=25A overload protection Ir=10A...25A short-circuit protection Isd=0.6..10x In, Ii=1.5..12x In N conductor protection adjustable (OFF, up to 160%) gr.-fault prot., can be sw. off Ig=0.2...1 x In= tg=0.05-0.8s nut keeper kit

Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
design of the product	Line protection
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	0.6 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	0.2 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
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	2.95 kg
Current	
operational current	
• at 40 °C	25 A
• at 45 °C	25 A
• at 50 °C	25 A
• at 55 °C	25 A
• at 60 °C	25 A
● at 65 °C	25 A
• at 70 °C	25 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 440 V	110 kA
• at 500 V	85 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 440 V	110 kA
• at 500 V	85 kA
• at 690 V	2.5 kA
short-circuit current making capacity (Icm)	
• at 240 V	330 kA
• at 415 V	242 kA
• at 440 V	242 kA
• at 500 V	187 kA
• at 690 V	3.7 kA
Adjustable parameters	0.1 101
	No
product feature / for L-tripping / can be switched on/off	No
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
• minimum	10 A
• maximum	25 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	
	15 Δ
• minimum	15 A
maximum	250 A
adjustable response value setting current (Isd) / of S-trip / with I2t characteristic	
• minimum	15 A
• maximum	250 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 l2t characteristic	
• minimum	0.05 s
• maximum	0.5 s
adjustable response value setting current (li) / for I-tripping	
● minimum	38 A
• maximum	300 A
adjustable current response value current / for G-tripping / with standard characteristic	
initial value	15 A
full-scale value	25 A
adjustable response value delay time (tg) / for G-tripping / with l0t characteristic	
maximum	0.8 s
adjustable response value setting current (Ig) / for G-tripping / with I2t characteristic	
• minimum	15 A
• maximum	25 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	10 A
• maximum	40 A
design of the N-conductor protection	adjustable OFF; 40% to 160%
product function / grounding protection	Yes
Mechanical Design	
product component	
undervoltage release	No
-	No
voltage trigger	INU

 trip indicator 		N	10			
height [in]		7	7.13 in			
height		1	181 mm			
width [in]		5	5.51 in			
width		1	140 mm			
depth [in]		3	3.39 in			
depth		8	6 mm			
Connections						
arrangement of electric	al connectors / for main cu		Front terminal			
	ction / for main current circ		on both sides nut keeper kit			
type of connectable conductor cross-sections / for flat-bar terminal connection / minimum			13 x 1 mm			
type of connectable conductor cross-sections / for flat-bar terminal connection / maximum			25 x 8 mm			
design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) $$		top of the ti	'n			
design of the surface / of the connections / on the bottom of the switch $(N, 2, 4, 6)$		bottom of the ti	'n			
Auxiliary circuit						
number of CO contacts	/ for auxiliary contacts	0)			
Accessories						
product extension / opti	ional / motor drive	Y	/es			
Environmental conditio	ons					
protection class IP / on	the front	IF	P40			
ambient temperature						
 during operation 	/ minimum	-2	25 °C			
 during operation 			O° O'			
 during storage / i 			40 °C			
 during storage / i 	maximum	8	0°C			
Certificates		_		_		
reference code / accord	ding to IEC 81346-2	0)			
		C	×			
General Product App			2		EMC	
General Product App			x <u>Miscellaneous</u>	EAC	EMC RCM	
General Product App	roval Confirmation	VDE Test Certificates		EAC	EMC ECM RCM	
CCC	roval Confirmation	VDE Test Certificates	Miscellaneous	EAC	RCM	
CCC	roval Confirmation			ERF Type Test Certific- ates/Test Report	RCM	
CCC	roval <u>Confirmation</u> rmity	VDE Test Certificates	Miscellaneous Special Test Certific-		RCM	
CCC Declaration of Confor	roval <u>Confirmation</u> rmity	VDE Test Certificates	Miscellaneous Special Test Certific-	ates/Test Report	RCM	
CCC Declaration of Confor	roval <u>Confirmation</u> rmity	VDE Test Certificates	<u>Miscellaneous</u> Special Test Certific- ate	ates/Test Report	Marine / Shipping	
Declaration of Confor UCK CCC UCK Marine / Shipping	roval Confirmation rmity EG-Konf.	Test Certificates Miscellaneous	Miscellaneous Special Test Certific- ate	ates/Test Report	Marine / Shipping	

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=3VA2125-7KQ42-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA2125-7KQ42-0AAC

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

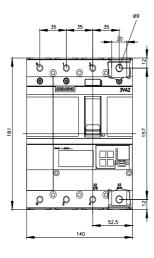
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2125-7KQ42-0AA0

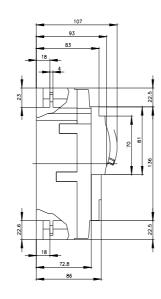
CAx-Online-Generator

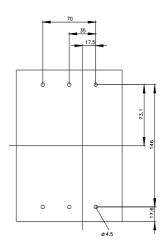
http://www.siemens.com/cax

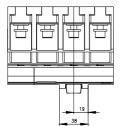
Tender specifications

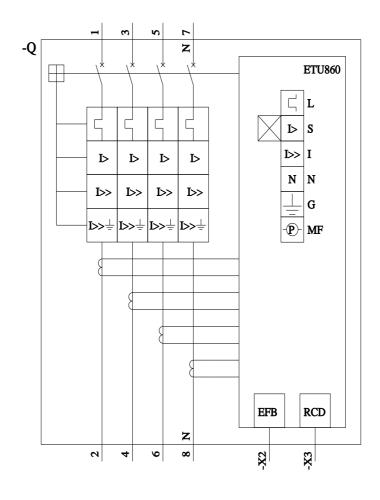
http://www.siemens.com/specifications











last modified:

8/14/2023 🖸

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