SIEMENS

Data sheet



circuit breaker 3VA2 IEC frame 160 breaking capacity class E Icu=200 kA @ 415 V 3-pole motor protection ETU860M, LSIG, In=100A overload protection Ir=40A ... 100A short circuit protection Isd=1,2...15xIn, Ii=3...15xIn cable connection

Model		
product brand name	SENTRON	
product designation	Molded case circuit breaker	
design of the product	Motor protection	
design of the overcurrent release	ETU860M	
protection function of the overcurrent release	LSIG	
number of poles	3	
General technical data		
insulation voltage / rated value	800 V	
operating voltage / at AC / rated value	690 V	
operating power / at AC-3 / at 400 V	55 000 W	
operating power / at AC-3 / at 230 V	30 000 W	
power loss [W] / maximum	7.7 W	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	2.57 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 AC-3 / at 380/415 V	5 000	
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No	
ground-fault monitoring version	Summation current formation L-conductor	
product function		
 communication function 	Yes	
phase failure detection	Yes	
 other measurement function 	Yes	
Net Weight	2.5 kg	
Current		
operational current		
• at 40 °C	100 A	
• at 45 °C	100 A	
• at 50 °C	100 A	
● at 55 °C	100 A	
• at 60 °C	100 A	
• at 65 °C	100 A	
● at 70 °C	100 A	
Switching capacity according to IEC 60947		
switching capacity class of the circuit breaker	E	
maximum short-circuit current breaking capacity (Icu)		
• at 415 V	200 kA	
● at 690 V	85 kA	

operating short-circuit current breaking capacity (lcs)	
• at 415 V	200 kA
• at 690 V	65 kA
short-circuit current making capacity (Icm)	
• at 415 V	440 kA
• at 690 V	187 kA
Adjustable parameters	
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	40 A
• maximum	100 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	3 s
• maximum	25 s
adjustable response value setting current (lsd) / of S-trip / with l0t characteristic	
• minimum	120 A
• maximum	1 500 A
adjustable response value delay time (tsd) / for S-tripping / with l0t characteristic	
• minimum	0.03 s
• maximum	0.03 s
adjustable response value setting current (li) / for I-tripping	200.4
• minimum	300 A
• maximum	1 500 A
adjustable current response value current / for G-tripping / with standard characteristic	
• initial value	20 A
• full-scale value adjustable response value delay time (tg) / for G-tripping / with lot characteristic	100 A
maximum	0.8 s
adjustable response value setting current (Ig) / for G-tripping / with I2t characteristic	
• minimum	20 A
• maximum	100 A
adjustable response value delay time (tg) / for G-tripping / with l2t characteristic	
• minimum	0.05 s
maximum	0.8 s
product function / grounding protection	Yes
adjustable trip class (Tc CLASS)	10A, 10/10E, 20/ 20E, 30/30E
tripping time (Tp) / with adjustable trip class (Tc CLASS)	
• minimum	3 s
• maximum	25 s
Mechanical Design	
product component	
undervoltage release	No
 voltage trigger 	No
trip indicator	No
height [in]	7.13 in
height	181 mm
width [in]	4.13 in
type of connectable conductor cross-sections / of the round conductor terminal / stranded	1 x (6 - 120 mm²)
width	105 mm
depth [in]	3.39 in
depth	86 mm
Connections	
arrangement of electrical connectors / for main current circuit	Front terminal
type of electrical connection / for main current circuit	double-sided box terminal

tin	
tin	
0	
Yes	
IP40	
-25 °C	
70 °C	
-40 °C	
80 °C	
Q	
	EMC
	tin 0 Yes IP40 -25 °C 70 °C -40 °C 80 °C

Confirmation





Miscellaneous





Declaration of Conformity

Test Certificates

Marine / Shipping





Special Test Certificate

Miscellaneous





 Marine / Shipping
 other
 Dangerous Good
 Environment

 CCS / China Classification Society
 Miscellaneous
 Transport Information
 Environmental Confirmations

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=3VA2110-0MQ36-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA2110-0MQ36-0AA0

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

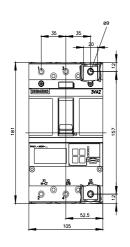
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2110-0MQ36-0AA0

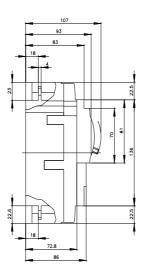
CAx-Online-Generator

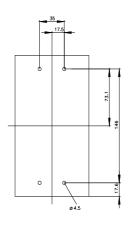
http://www.siemens.com/cax

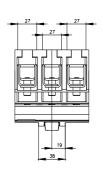
Tender specifications

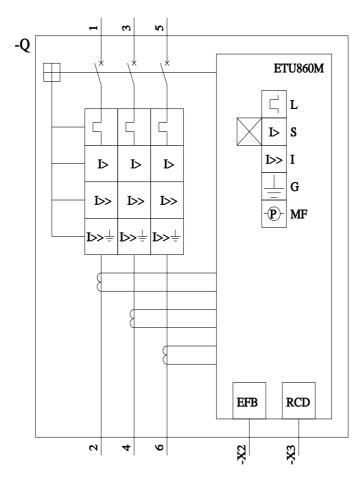
http://www.siemens.com/specifications











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