

Siemens
EcoTech



circuit breaker 3VA2 IEC Frame 160 breaking capacity class E Icu=200 kA @ 415 V 3-pole, line protection ETU860, LSIG, In=100 A overload protection Ir=40 A ... 100 A short-circuit protection Isd=0.6...10xIn, li=1.5...12xIn terminal connection



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	3
General technical data	
insulation voltage / rated value	800 V
operating voltage / at AC / rated value	690 V
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
product feature / for neutral conductors / upgradable/retrofitable / 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	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 (Ics)	

• at 415 V • at 690 V	200 kA
short-circuit current making capacity (Icm)	65 kA
• at 415 V • at 690 V	440 kA
	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 • maximum	40 A
	100 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum • maximum	0.5 s
	25 s
adjustable response value setting current (Isd) / of S-trip / with I0t characteristic	
• minimum • maximum	60 A
	1 000 A
adjustable response value setting current (Isd) / of S-trip / with I2t characteristic	
• minimum • maximum	60 A
	1 000 A
adjustable response value delay time (tsd) / for S-tripping / with I0t characteristic	
• minimum • maximum	0.05 s
	0.5 s
adjustable response value delay time (tsd) / for S-tripping / with I2t characteristic	
• minimum • maximum	0.05 s
	0.5 s
adjustable response value setting current (Ii) / for I-tripping	
• minimum • maximum	150 A
	1 200 A
adjustable current response value current / for G-tripping / with standard characteristic	
• initial value • full-scale value	20 A
	100 A
adjustable response value delay time (tg) / for G-tripping / with I0t characteristic	
• maximum	0.8 s
adjustable response value setting current (Ig) / for G-tripping / with I2t characteristic	
• minimum • maximum	20 A
	100 A
adjustable response value delay time (tg) / for G-tripping / with I2t characteristic	
• minimum • maximum	0.05 s
	0.8 s
adjustable setting current (InN) / for N-tripping	
• minimum • maximum	20 A
	160 A
design of the N-conductor protection	adjustable OFF; 20% to 160%
product function / grounding protection	Yes

Mechanical Design

product component	
• undervoltage release • voltage trigger • trip indicator	No
	No
	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				
design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)	tin				
design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)	tin				
Auxiliary circuit					
number of CO contacts / for auxiliary contacts	0				
Accessories					
product extension / optional / motor drive	Yes				
Environmental conditions					
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	80 °C				
Environmental footprint					
global warming potential [CO2 eq] / total	61.814 kg				
global warming potential [CO2 eq] / during manufacturing	14.6 kg				
global warming potential [CO2 eq] / during operation	48.9 kg				
global warming potential [CO2 eq] / after end of life	-2.2 kg				
Siemens Eco Profile (SEP)	Siemens EcoTech				
reference code / according to IEC 81346-2	Q				
Approvals / Certificates					
General Product Approval					
 CCC  EG-Konf.  Confirmation  VDE Miscellaneous					
General Product Approval	EMV	Test Certificates	Marine / Shipping		
	 RCM	Special Test Certificate	Miscellaneous	 BUREAU VERITAS	 DNV
Marine / Shipping	other	Dangerous goods		Environment	
CCS (China Classification Society)	Confirmation	Miscellaneous	Miscellaneous	Transport Information	
Environment					
  Environmental Confirmations Environmental Confirmations					
Further information					
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875					

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2110-0KQ36-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2110-0KQ36-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2110-0KQ36-0AA0

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>



