



circuit breaker 3VA2 IEC frame 160 breaking capacity class E Icu=200 kA @ 415 V
 4-pole, line protection ETU860, LSIG, In=25A overload protection Ir=10A ... 25A
 short circuit protection Isd=0,6...10xIn, li=1,5...12xIn neutral protection
 adjustable(OFF up to 160%) cable 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	4
General technical data	
insulation voltage / rated value	800 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	0.5 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	0.17 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	3.3 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	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	200 kA
• at 690 V	65 kA
short-circuit current making capacity (Icm)	

<ul style="list-style-type: none"> • 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 (I_r) / of the L-trip / with I2t characteristic <ul style="list-style-type: none"> • minimum • maximum 	10 A 25 A
adjustable response value delay time (t_r) / for L-tripping / with I2t characteristic <ul style="list-style-type: none"> • minimum • maximum 	0.5 s 25 s
adjustable response value setting current (I_{sd}) / of S-trip / with I0t characteristic <ul style="list-style-type: none"> • minimum • maximum 	15 A 250 A
adjustable response value setting current (I_{sd}) / of S-trip / with I2t characteristic <ul style="list-style-type: none"> • minimum • maximum 	15 A 250 A
adjustable response value delay time (t_{sd}) / for S-tripping / with I0t characteristic <ul style="list-style-type: none"> • minimum • maximum 	0.05 s 0.5 s
adjustable response value delay time (t_{sd}) / for S-tripping / with I2t characteristic <ul style="list-style-type: none"> • minimum • maximum 	0.05 s 0.5 s
adjustable response value setting current (I_l) / for I-tripping <ul style="list-style-type: none"> • minimum • maximum 	38 A 300 A
adjustable current response value current / for G-tripping / with standard characteristic <ul style="list-style-type: none"> • initial value • full-scale value 	15 A 25 A
adjustable response value delay time (t_g) / for G-tripping / with I0t characteristic <ul style="list-style-type: none"> • maximum 	0.8 s
adjustable response value setting current (I_g) / for G-tripping / with I2t characteristic <ul style="list-style-type: none"> • minimum • maximum 	15 A 25 A
adjustable response value delay time (t_g) / for G-tripping / with I2t characteristic <ul style="list-style-type: none"> • minimum • maximum 	0.05 s 0.8 s
adjustable absolute value setting current (I_{nN}) / for N-tripping <ul style="list-style-type: none"> • minimum • maximum 	10 A 40 A
design of the N-conductor protection	adjustable OFF; 40% to 160%
product function / grounding protection	Yes
Mechanical Design	
product component <ul style="list-style-type: none"> • undervoltage release • voltage trigger • trip indicator 	No No No
height [in]	7.13 in
height	181 mm
width [in]	5.51 in
type of connectable conductor cross-sections / of the round conductor terminal / stranded	1 x (6 - 120 mm ²)
width	140 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
Certificates	
reference code / according to IEC 81346-2	Q
General Product Approval	EMC



[Confirmation](#)



[Miscellaneous](#)



Declaration of Conformity		Test Certificates		Marine / Shipping	
		Miscellaneous	Special Test Certificate		
Marine / Shipping		other		Dangerous Good	
CCS / China Classification Society	Confirmation	Miscellaneous	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=3VA2125-0KQ46-0AA0>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/3VA2125-0KQ46-0AA0>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2125-0KQ46-0AA0

CAX-Online-Generator
<http://www.siemens.com/cax>

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



