

Siemens
EcoTech



circuit breaker 3VA2 IEC Frame 160 breaking capacity class E Icu=200 kA @ 415 V 3-pole, motor protection ETU860M, LSIG, In=63 A overload protection Ir=25 A ... 63 A short-circuit protection Isd=1.2...15xIn, li=3...15xIn terminal 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	30 000 W
operating power / at AC-3 / at 230 V	18 500 W
power loss [W] / maximum	3.1 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.03 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	7 500
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	63 A
• at 45 °C	63 A
• at 50 °C	63 A
• at 55 °C	63 A
• at 60 °C	63 A
• at 65 °C	63 A
• at 70 °C	63 A

Switching capacity according to IEC 60947

switching capacity class of the circuit breaker	E
maximum short-circuit current breaking capacity (I _{cu}) <ul style="list-style-type: none">• at 415 V• at 690 V	200 kA 85 kA
operating short-circuit current breaking capacity (I _{cs}) <ul style="list-style-type: none">• at 415 V• at 690 V	200 kA 65 kA
short-circuit current making capacity (I _{cm}) <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 I _{2t} characteristic <ul style="list-style-type: none">• minimum• maximum	25 A 63 A
adjustable response value delay time (t _r) / for L-tripping / with I _{2t} characteristic <ul style="list-style-type: none">• minimum• maximum	3 s 30 s
adjustable response value setting current (I _{sd}) / of S-trip / with I _{0t} characteristic <ul style="list-style-type: none">• minimum• maximum	75 A 945 A
adjustable response value delay time (t _{sd}) / for S-tripping / with I _{0t} characteristic <ul style="list-style-type: none">• minimum• maximum	0.03 s 0.03 s
adjustable response value setting current (I _i) / for I-tripping <ul style="list-style-type: none">• minimum• maximum	189 A 945 A
adjustable current response value current / for G-tripping / with standard characteristic <ul style="list-style-type: none">• initial value• full-scale value	12 A 63 A
adjustable response value delay time (t _g) / for G-tripping / with I _{0t} characteristic <ul style="list-style-type: none">• minimum• maximum	0.05 s 0.8 s
adjustable response value setting current (I _g) / for G-tripping / with I _{2t} characteristic <ul style="list-style-type: none">• minimum• maximum	12 A 63 A
adjustable response value delay time (t _g) / for G-tripping / with I _{2t} characteristic <ul style="list-style-type: none">• minimum• maximum	0.05 s 0.8 s
adjustable setting current (I _n) / for N-tripping <ul style="list-style-type: none">• minimum• maximum	0 A 0 A
product function / grounding protection	Yes
adjustable trip class (T _c CLASS)	10A, 10/10E, 20/ 20E, 30/30E
tripping time (T _p) / with adjustable trip class (T _c CLASS) <ul style="list-style-type: none">• minimum• maximum	3 s 30 s

Mechanical Design

product component <ul style="list-style-type: none">• undervoltage release• voltage trigger• trip indicator	No No No
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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 mm ²)
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
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Accessories

product extension / optional / motor drive	Yes
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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



[Miscellaneous](#)



General Product Approval	EMV	Test Certificates	Maritime application
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[Special Test Certificate](#)

[Miscellaneous](#)

[Type Test Certificates/Test Report](#)



Maritime application	other	Dangerous goods
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[CCS \(China Classification Society\)](#)



[Confirmation](#)

[Miscellaneous](#)

[Transport Information](#)

Environment



Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

Information- and Downloadcenter (Catalogs, Brochures,...)

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2163-0MQ36-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2163-0MQ36-0AA0>

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

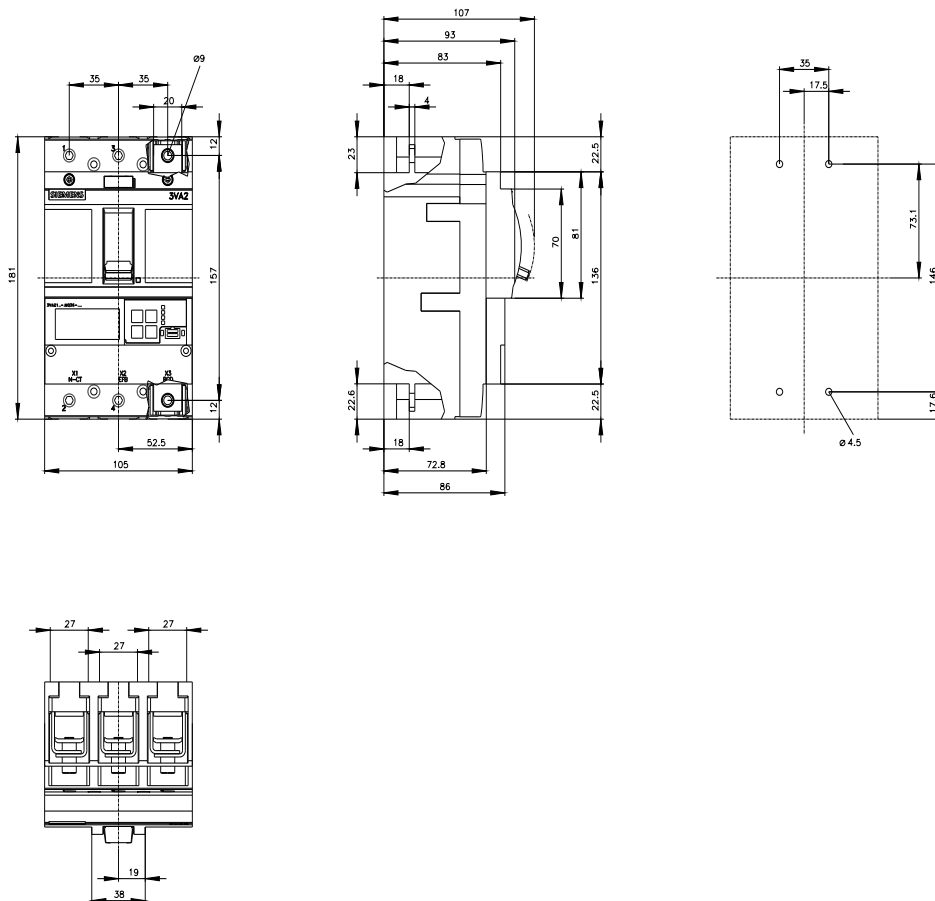
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2163-0MQ36-0AA0

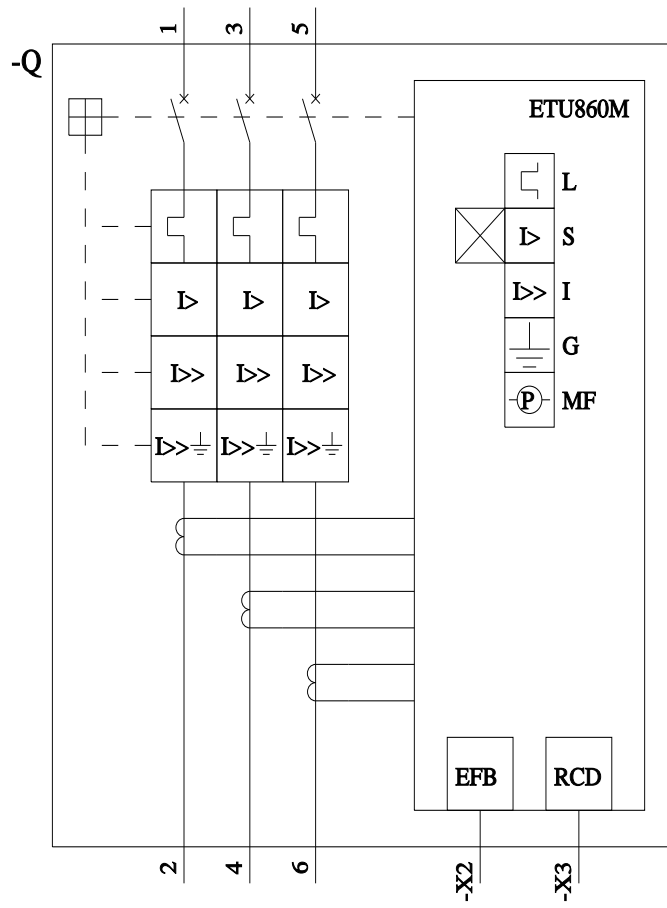
CAx-Online-Generator

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

Tender specifications

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





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