

Siemens
EcoTech



circuit breaker 3VA2 IEC Frame 160 breaking capacity class M Icu=55 kA @ 415 V
3-pole, motor protection ETU860M, LSIG, In=63 A overload protection Ir=25 A...63
A short-circuit protection I_{sd}=1.2...15x I_n, I_i=3...15x I_n ground-fault protection, can
be switched off I_g=0.25...1 x I_n, t_g=0.05-0.8s 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	4 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.33 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	2.359 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})	
• at 240 V	85 kA
• at 415 V	55 kA
• at 440 V	55 kA
• at 500 V	36 kA
• at 690 V	3 kA
operating short-circuit current breaking capacity (I_{cs})	
• at 240 V	85 kA
• at 415 V	55 kA
• at 440 V	55 kA
• at 500 V	36 kA
• at 690 V	2.5 kA
short-circuit current making capacity (I_{cm})	
• at 240 V	187 kA
• at 415 V	121 kA
• at 440 V	121 kA
• at 500 V	75.6 kA
• at 690 V	3.7 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	
• minimum	25 A
• maximum	63 A
adjustable response value delay time (t_r) / for L-tripping / with I_{2t} characteristic	
• minimum	3 s
• maximum	30 s
adjustable response value setting current (I_{sd}) / of S-trip / with I_{0t} characteristic	
• minimum	75 A
• maximum	945 A
adjustable response value delay time (t_{sd}) / for S-tripping / with I_{0t} characteristic	
• minimum	0.03 s
• maximum	0.03 s
adjustable response value setting current (I_l) / for I-tripping	
• minimum	189 A
• maximum	945 A
adjustable current response value current / for G-tripping / with standard characteristic	
• initial value	12 A
• full-scale value	63 A
adjustable response value delay time (t_g) / for G-tripping / with I_{0t} characteristic	
• minimum	0.05 s
• maximum	0.8 s
adjustable response value setting current (I_g) / for G-tripping / with I_{2t} characteristic	
• minimum	12 A
• maximum	63 A
adjustable response value delay time (t_g) / for G-tripping / with I_{2t} characteristic	
• minimum	0.05 s
• maximum	0.8 s
adjustable setting current (I_{nN}) / for N-tripping	
• minimum	0 A
• maximum	0 A
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	30 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
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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[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)

[Miscellaneous](#)



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



[Confirmation](#)

[Miscellaneous](#)

[Transport Information](#)

Environment



[Environmental Confirmations](#)

[Environmental Confirmations](#)

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=3VA2163-5MQ36-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2163-5MQ36-0AA0>

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

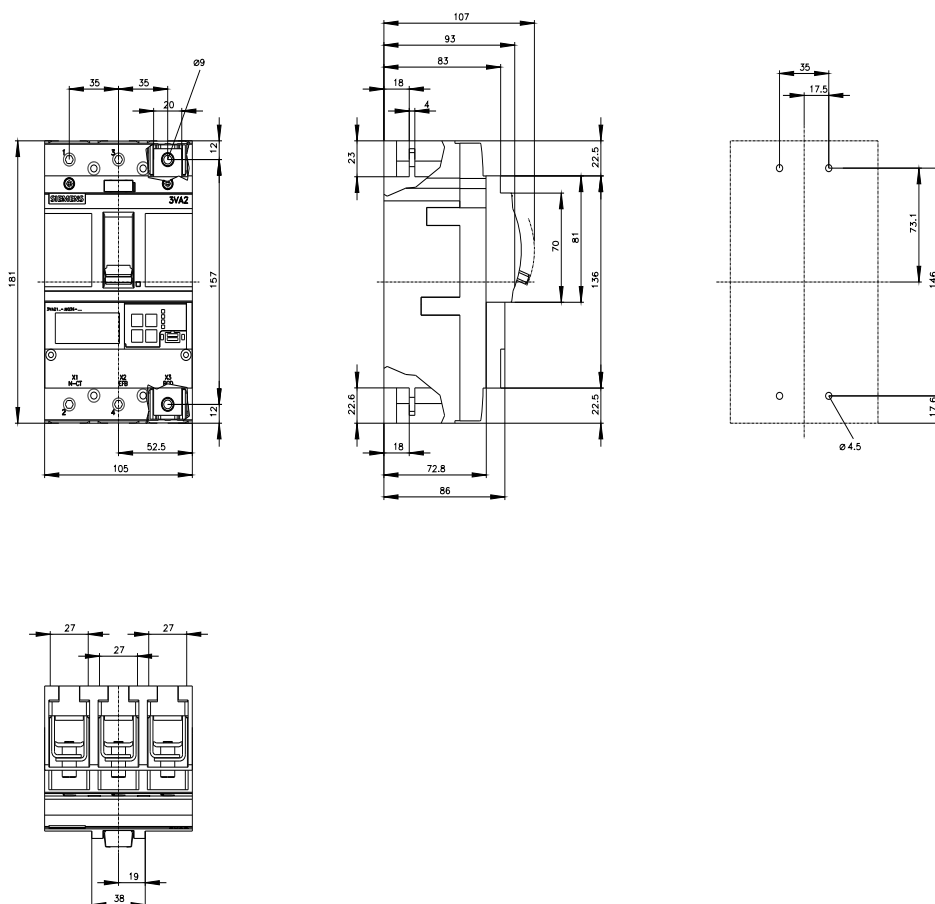
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2163-5MQ36-0AA0

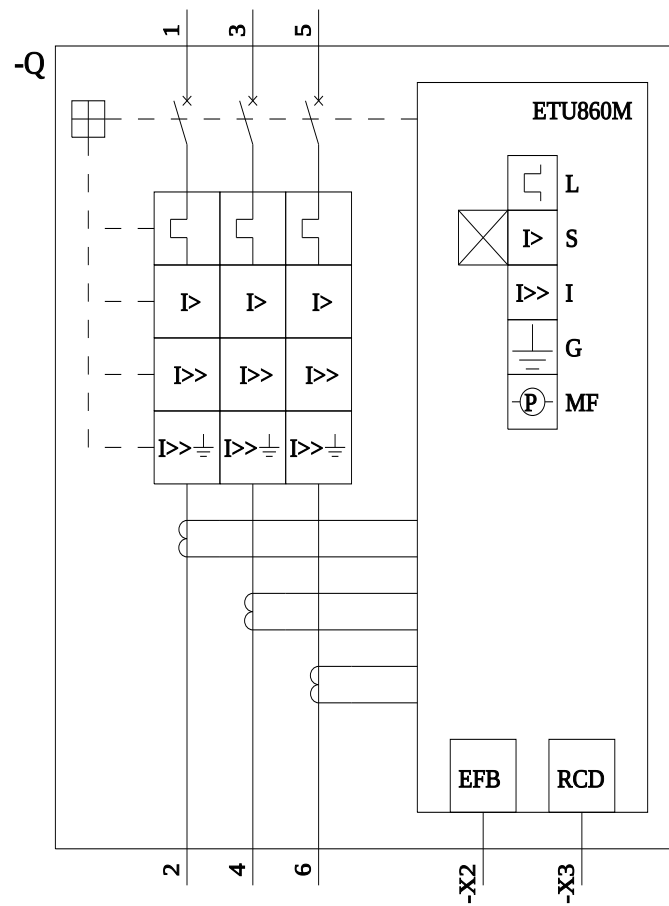
CAX-Online-Generator

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

Tender specifications

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





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