



circuit breaker 3VA2 IEC frame 160 breaking capacity class M Icu=55kA @ 415V 3-pole, motor protection ETU350M, LSI, In=63A overload protection Ir=25A...63A short-circuit protection Isd=3...15 x Ir, li=15 x In nut keeper kit 2 auxiliary switches HP 1 trip alarm switch HP

Model	
product brand name	SETRON
product designation	Molded case circuit breaker
Product version	Motor protection
design of the overcurrent release	ETU350M
protection function of the overcurrent release	LSI
number of poles	3
design of the auxiliary release	Without auxiliary release
Auxiliary contact version	2 auxiliary switches + 1 trip alarm switch HP
General technical data	
rated insulation voltage Ui	800 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
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	1.33 W
mechanical service life (switching cycles) / typical	25 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	14 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	9 800
Electrical endurance (switching cycles) / at AC-3 / at 380/415 V 50/60 Hz	7 500
Neutral conductors / upgradeable/retrofitable	No
ground-fault monitoring version	Without
product function	
• communication function	No
• phase failure detection	Yes
• other measurement function	No
Net Weight	2,284 kg
Current	
Max. rated operational current of the frame size	160 A
Courant permanent assigné lu	63 A
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	M
breaking capacity maximum short-circuit current (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	2.5 kA
breaking capacity operating short-circuit current (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	
Adjustable response value current / li min.	945 A
Adjustable response value current / li max.	945 A
Ground fault protection / tripping switchable / I _{2t} =ON/OFF	No
Mechanical Design	
height [in]	7.13 in
Height	181 mm
width [in]	4.13 in
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	on both sides nut keeper kit
Type of connectable conductor cross-section, connection screw, width x thickness , min.	13 x 1 mm
Type of connectable conductor cross-section, connection screw, width x thickness , max.	25 x 8 mm
design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)	tin
Auxiliary circuit	
product component	
• undervoltage release	No
• voltage trigger	No
• undervoltage release with leading contact	No
• trip indicator	Yes
number of CO contacts / for auxiliary contacts	3
Accessories	
product extension / optional / motor drive	Yes
manufacturer's article number	
• of the supplied basic switch	3VA2163-5MN32-0AA0
• of the integrated auxiliary switch/alarm switch	3VA9988-0AA11
• of the integrated auxiliary switch/alarm switch	3VA9988-0AB11
Environmental conditions	
protection class IP / on the front	IP40
ambient temperature	
• during operation / minimum	-25 °C
• during operation / maximum	70 °C

- during storage / minimum
- during storage / maximum

-40 °C
80 °C

Certificates

reference code / acc. to IEC 81346-2

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General Product Approval

EMC

Declaration of
Conformity



[Miscellaneous](#)



[UK Declaration of
Conformity](#)

Declaration of
Conformity

Test Certificates

Marine / Shipping



[Miscellaneous](#)

[Special Test Certificate](#)



[CCS / China Classification Society](#)

other

[Miscellaneous](#)

[Miscellaneous](#)

Further information

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=3VA2163-5MN32-0AJ0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2163-5MN32-0AJ0>

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

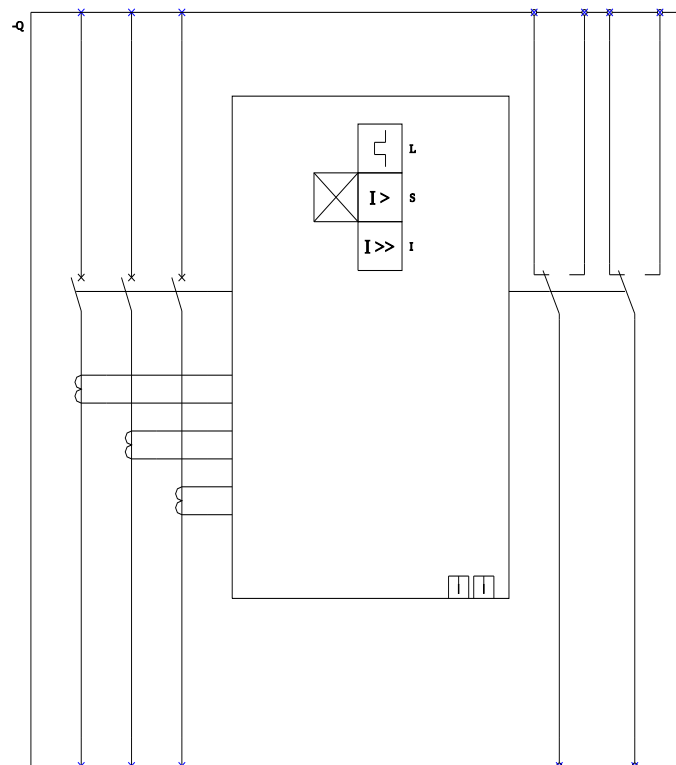
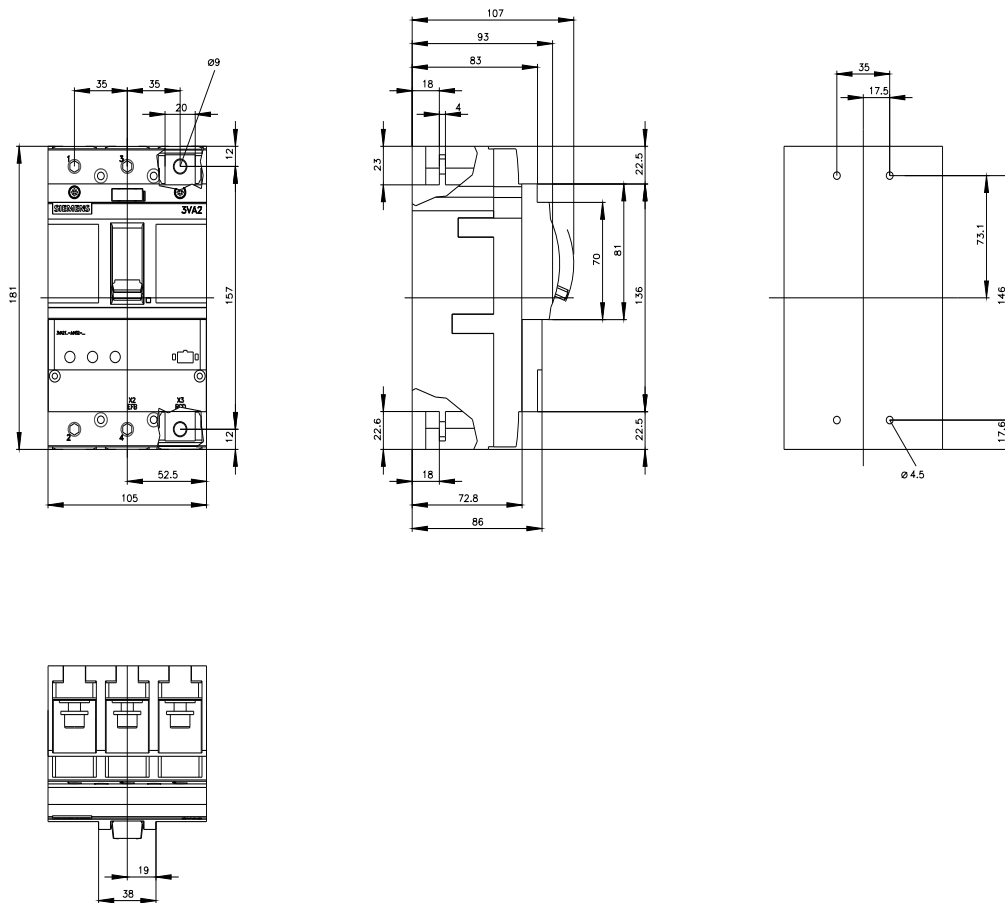
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2163-5MN32-0AJ0

CAX-Online-Generator

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

Tender specifications

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



L (Long Time Delay / Überlastschutz); S (Short Time Delay / Kurzschlussschutz, kurzzeitverzögert);
I (Instantaneous / Kurzschlussschutz, unverzögert);

