

circuit breaker 3VA2 IEC frame 160 breaking capacity class E
Icu=200 kA @ 415 V 3-pole motor starter protection ETU310M, I,
In=63A short circuit protection Ii=3...15 x In cable connection



Model	
Product brand name	SENTRON
Product designation	Molded case circuit breaker
Product version	Motor protection
Design of the overcurrent release	ETU310M
Protective function of the overcurrent release	I
Number of poles	3

General technical data	
Rated insulation voltage Ui	800 V
Max. rated operational voltage Ue with AC 50/60Hz	690 V
Power loss [W] / maximum	3.1 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	1.03 W
Mechanical service life (switching cycles) / typical	20 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	12 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	8 000
Neutral conductors / upgradeable/retrofitable	No

Ground fault monitoring version	Without
Product function	
• communication function	No
• Phase failure detection	No
• other measurement function	No

Current

Max. rated operational current of the frame size	160 A
Rated continuous current I _u	63 A
Operating 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

Maximum short-circuit current breaking capacity (I _{cu})	
• at 415 V	200 kA
• at 690 V	85 kA
Operational short-circuit current breaking capacity (I _{cs})	
• at 415 V	200 kA
• at 690 V	65 kA
Short-circuit current making capacity (I _{cm})	
• at 415 V	440 kA
• at 690 V	187 kA

Adjustable parameters

Adjustable response value current / I _i min.	189 A
Adjustable response value current / I _i max.	945 A
Ground fault protection / tripping switchable / I _{2t} =ON/OFF	No

Mechanical Design

Height [in]	7.1 in
Height	181 mm
Width [in]	4.1 in
Width	105 mm
Depth [in]	3.4 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
Type of connectable conductor cross-section, round conductor terminal, stranded	1 x (6-120 mm ²)

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

Certificates

Reference code / acc. to DIN EN 81346-2	Q
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General Product Approval	EMC	Declaration of Conformity	Test Certificates
Miscellaneous 	 RCM	 EG-Konf.	Miscellaneous Special Test Certificate

Shipping Approval	other
 LRS	CCS / China Classification Society Manufacturer Declaration 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=3VA2163-0MS36-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2163-0MS36-0AA0>

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

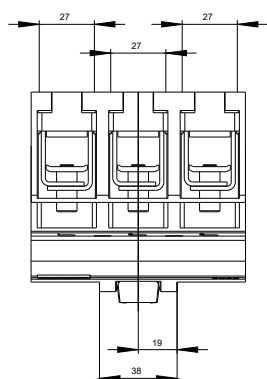
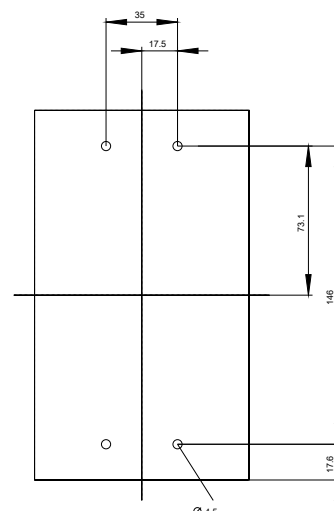
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2163-0MS36-0AA0

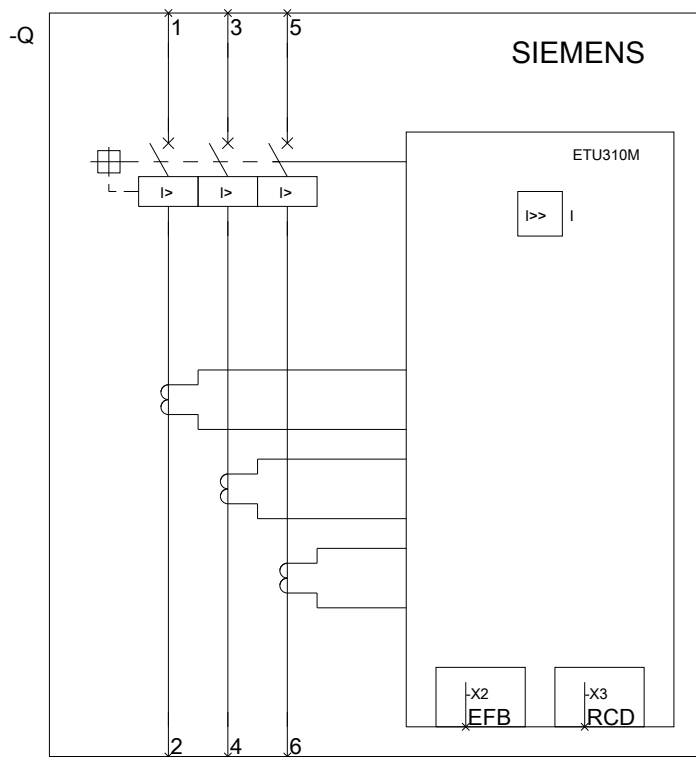
CAX-Online-Generator

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

Tender specifications

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





Siemens

3VA2xxx-xMS3x-C

Format / Size: Hybrid C

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05/15/2020