



circuit breaker 3VA2 IEC frame 250 breaking capacity class E Icu=200 kA @ 415 V 3-pole motor starter protection ETU310M, I, In=160A short circuit protection Ii=3...15 x In busbar connection

Model

product brand name	SENTRON
product designation	Molded case circuit breaker
design of the product	Motor protection
design of the overcurrent release	ETU310M
protection function of the overcurrent release	I
number of poles	3

General technical data

insulation voltage / rated value	800 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	19.7 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	6.57 W
mechanical service life (operating cycles) / typical	25 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	12 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	8 400
product feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof	No
ground-fault monitoring version	Without
product function	
• communication function	No
• phase failure detection	No
• other measurement function	No
Net Weight	2.5 kg

Current

continuous current / rated value / maximum	250 A
continuous current / rated value	160 A
operational current	
• at 40 °C	160 A
• at 45 °C	160 A
• at 50 °C	160 A
• at 55 °C	160 A
• at 60 °C	160 A
• at 65 °C	160 A
• at 70 °C	160 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 • at 690 V	200 kA		
short-circuit current making capacity (Icm)	65 kA		
• at 415 V • at 690 V	440 kA		
	187 kA		
Adjustable parameters			
adjustable response value setting current (Ii) / for I-tripping			
• minimum • maximum	480 A		
	2 400 A		
adjustable absolute value setting current (InN) / for N-tripping			
• minimum • maximum	0 A		
	0 A		
adjustable current response value current / of instantaneous short-circuit trip unit			
• minimum • maximum	480 A		
	2 400 A		
product function / grounding protection	No		
Mechanical Design			
product component			
• undervoltage release • voltage trigger • trip indicator	No		
	No		
	No		
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-sections / for flat-bar terminal connection / minimum	13 x 1 mm		
type of connectable conductor cross-sections / for flat-bar terminal connection / maximum	25 x 8 mm		
design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)	silver		
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 • during operation / maximum • during storage / minimum • during storage / maximum	-25 °C		
	70 °C		
	-40 °C		
	80 °C		
Certificates			
reference code / according to IEC 81346-2	Q		
General Product Approval		EMC	Declaration of Conformity



[Confirmation](#)

[Miscellaneous](#)




[Special Test Certificate](#)
[Miscellaneous](#)

[CCS / China Classification Society](#)

other

[Confirmation](#)
[Miscellaneous](#)
[Environmental Confirmations](#)
[Miscellaneous](#)

Further information

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=3VA2216-0MS32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2216-0MS32-0AA0>

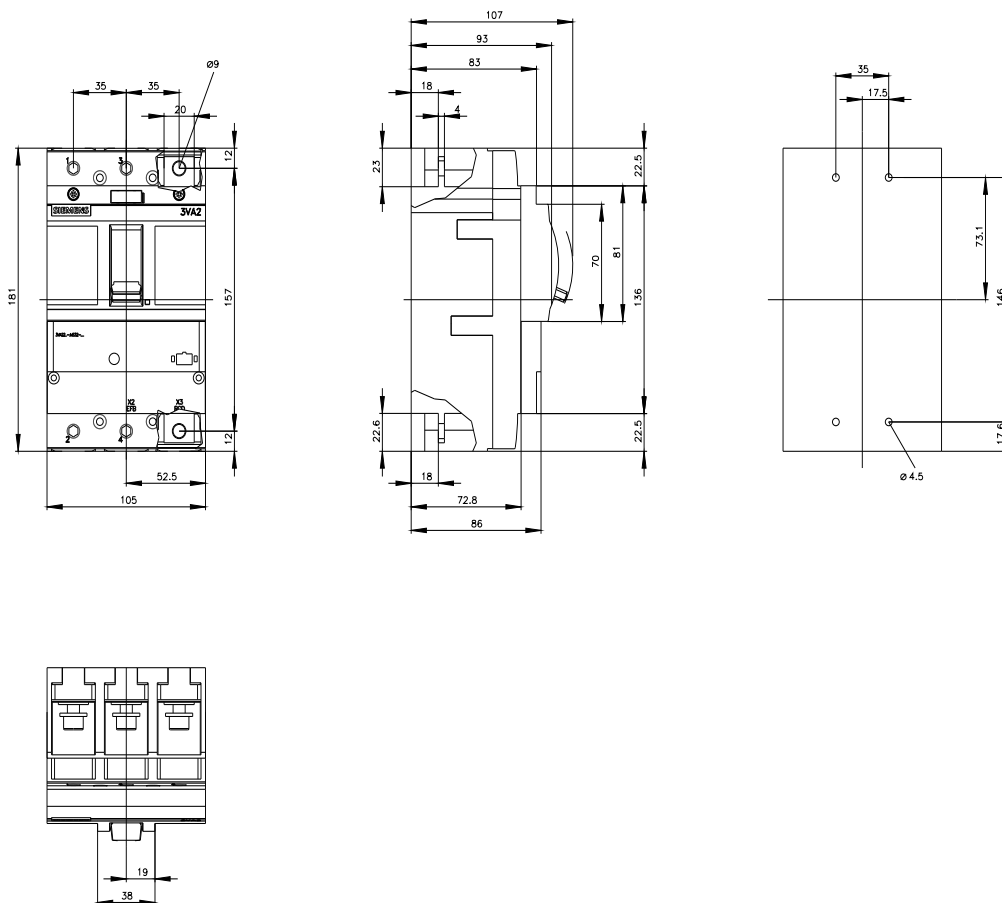
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

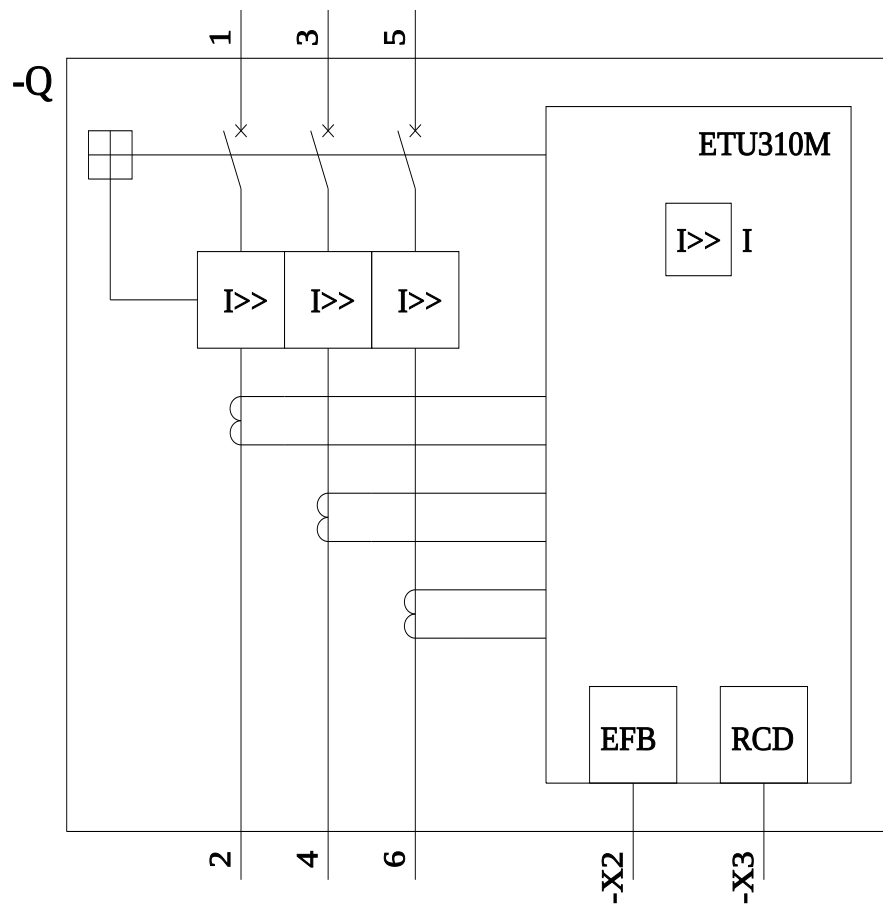
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2216-0MS32-0AA0

CAx-Online-Generator

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

Tender specifications

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




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