

circuit breaker 3VA2 IEC frame 160 breaking capacity class C
Icu=110kA @ 415V 3-pole, starter protection ETU310M, I, In=40A
without overload protection short-circuit protection Ii=3...15 x In
clamp connection

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

General technical data	
Tension assignée d'isolement Ui	800 V
Max. rated operational voltage Ue with AC 50/60Hz	690 V
power loss [W] / maximum	75 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	25 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
net weight	2.4 kg

Current	
Max. rated operational current of the frame size	160 A
Courant permanent assigné Iu	40 A
operating current	
• at 40 °C	40 A
• at 45 °C	40 A
• at 50 °C	40 A
• at 55 °C	38.8 A
• at 60 °C	38 A

• at 65 °C	36.8 A
• at 70 °C	35.2 A

Switching capacity according to IEC 60947

switching capacity class of the circuit breaker	C
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	150 kA
• at 415 V	110 kA
• at 440 V	110 kA
• at 500 V	85 kA
• at 690 V	2.5 kA
operational short-circuit current breaking capacity (Ics)	
• at 240 V	150 kA
• at 415 V	110 kA
• at 440 V	110 kA
• at 500 V	85 kA
• at 690 V	2.5 kA
short-circuit current making capacity (Icm)	
• at 240 V	330 kA
• at 415 V	242 kA
• at 440 V	242 kA
• at 500 V	187 kA
• at 690 V	3.8 kA

Adjustable parameters

Short-term delayed / tripping switchable / I2t=ON/OFF	No
Adjustable response value current / li min.	120 A
Adjustable response value current / li max.	600 A
Ground fault protection / tripping switchable / I2t=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 mm²)
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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	-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

General Product Approval		EMC	Declaration of Conformity		
 CCC	 VDE	Miscellaneous	 EAC	 RCM	 EG-Konf.

[Miscellaneous](#)

Test Certificates	Shipping Approval	other
Miscellaneous	Special Test Certificate	Confirmation
	 LRS	Manufacturer Declaration

[CCS / China Classification Society](#)

other
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=3VA2140-7MS36-0AA0
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA2140-7MS36-0AA0

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2140-7MS36-0AA0

CAX-Online-Generator

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

Tender specifications

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

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