



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS C ICU=110KA @ 415 V 3-POLE, MOTOR PROTECTION ETU350M, LSI, IN=63A OVERLOAD PROTECTION IR=25,2A ...63A SHORT CIRCUIT PROTECTION ISD=3... 15 X IR, II=15 X IN BUSBAR CONNECTION

Model	
product brandname	SENTRON
Product designation	Molded case circuit breaker
Design of the product	Motor protection
Type of load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
Design of the overcurrent release	ETU350M
Protective function of the overcurrent release	LSI
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
Operating power / at AC-3 / at 400 V	30 000 W
Operating power / at AC-3 / at 230 V	18 500 W
Active power loss / for rated value of the current / at AC / in hot operating state / per device	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-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	2.3 kg

Electricity

Marking / according to UL 489 / 100%-rated breaker	No
Max. rated operational voltage of the size of the circuit-breaker	160 A
Courant permanent assigné lu	63 A
Operating current	
• at 40 °C	63 A
• at 45 °C	63 A
• at 50 °C	63 A
• at 55 °C	61.11 A
• at 60 °C	59.85 A
• at 65 °C	57.96 A
• at 70 °C	55.44 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

Adjustable response value current / Ig min.	25 A
Adjustable response value current / Ig min.	63 A
Adjustable response value current / Ig min.	4
Adjustable response value current / Ig min.	17
Adjustable response value current / Ig min.	189 A
Adjustable response value current / Ig min.	945 A
Short-term delayed / tripping switchable / I2t=ON/OFF	No
Adjustable response value current / Ig min.	0.03 s
Adjustable response value current / Ig min.	0.03 s
Adjustable response value current / Ig min.	0 s
Adjustable response value current / Ig min.	0 s
Adjustable response value current / li min.	945 A
Adjustable response value current / li max.	945 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	Lug terminal
Type of connectable conductor cross-section, connection screw, width x thickness , min.	13 x 1 mm

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
- during operation / maximum
- during storage / minimum
- during storage / maximum

-25 °C
70 °C
-40 °C
80 °C

Certificates

Equipment marking / acc. to DIN EN 81346-2	Q
Certificate of suitability / as approval for NAVAL (no combat vessels) / Supplement SB	No

General Product Approval		EMC	Declaration of Conformity	Test Certificates
 CCC	 VDE	 EAC	 RCM	 EG-Konf.
sonstig				

other

[sonstig](#)

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA2163-7MN32-0AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VA2163-7MN32-0AA0/all>

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

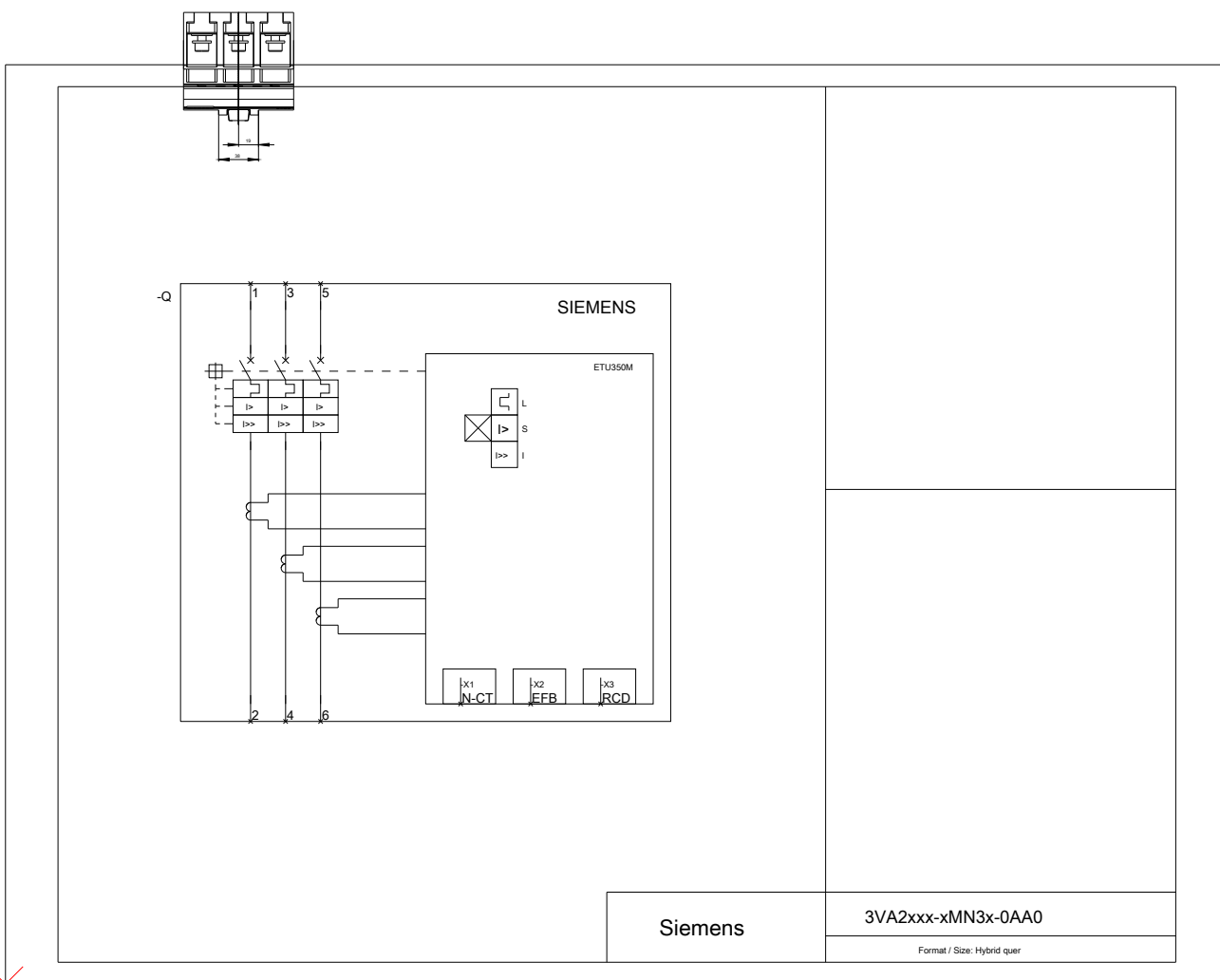
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2163-7MN32-0AA0

CAX-Online-Generator

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

Tender specifications

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



last modified:

10/29/2016