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Data sheet 3VA2340-7HN42-0AA0

CIRCUIT BREAKER 3VA2 IEC FRAME 400 BREAKING CAPACITY CLASS C ICU=110KA @ 415 V 4-POLE, LINE PROTECTION ETU350, LSI, IN=400A OVERLOAD PROTECTION IR=160A ...400A SHORT CIRCUIT PROTECTION ISD=1,5... 10 X IR, II=10 X IN NEUTRAL PROTECTION ADJUSTABLE(OFF,50%,100%) BUSBAR CONNECTION

Model	
product brandname	SENTRON
Product designation	Molded case circuit breaker
Design of the product	Line protection
Type of load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
Design of the overcurrent release	ETU350
Protective function of the overcurrent release	LSI
Number of poles	4

General technical data	
Tension assignée d'isolement Ui	800 V
Max. rated operational voltage Ue with AC 50/60Hz	690 V
Active power loss / for rated value of the current / at AC / in hot operating state / per device	96 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	32 W
Mechanical service life (switching cycles) / typical	20 000

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Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	6 000
Neutral conductors / upgradeable/retrofittable	No
Ground fault monitoring version	Without
Product function	
• communication function	No
• other measurement function	No
Net weight	5.7 kg

Electricity

Marking / according to UL 489 / 100%-rated breaker	No
Max. rated operational voltage of the size of the circuit-breaker	400 A
Courant permanent assigné Iu	400 A
Operating current	
• at 40 °C	400 A
• at 45 °C	400 A
• at 50 °C	400 A
• at 55 °C	385 A
• at 60 °C	370 A
• at 65 °C	355 A
• at 70 °C	340 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	5 kA
Operational short-circuit current breaking capacity (Ics)	
• at 240 V	150 kA
• at 415 V	110 kA
• at 690 V	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	7.5 kA

Adjustable parameters

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Adjustable response value current / Ig min.	160 A
Adjustable response value current / Ig min.	400 A
Adjustable response value current / Ig min.	0.5
Adjustable response value current / Ig min.	17
Adjustable response value current / Ig min.	600 A
Adjustable response value current / Ig min.	4 000 A
Short-term delayed / tripping switchable / I2t=ON/OFF	No
Adjustable response value current / Ig min.	0 s
Adjustable response value current / Ig min.	0 s
Adjustable response value current / Ig min.	0.02 s
Adjustable response value current / Ig min.	0.4 s
Adjustable response value current / Ii min.	4 000 A
Adjustable response value current / Ii max.	4 000 A
Design of the N-conductor protection	adjustable OFF; 50%; 100%
Ground fault protection / tripping switchable / I2t=ON/OFF	No

Mechanical Design

Height [in]	9.8 in
Height	248 mm
Width [in]	7.2 in
Width	184 mm
Depth [in]	5.4 in
Depth	137 mm

Connections

Arrangement of electrical connectors / for main current circuit	Front terminal
Type of electrical connection / for main current circuit	Lug terminal

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

Equipment marking / acc. to DIN EN 81346-2	Q

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Certificate of suitability / as approval for NAVAL (no combat vessels) / Supplement SB	No

General Product Approval			EMC	Declaration of Conformity	Test Certificates
CCC	VDE		RCM	EG-Konf.	Typprüfbescheinigung/Werkszeugnis

Test Certificates	Shipping Approval				
sonstig	ABS	BUREAU VERITAS	GL	LRS	RMRS

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/3VA2340-7HN42-0AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3VA2340-7HN42-0AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2340-7HN42-0AA0

CAx-Online-Generator
http://www.siemens.com/cax

Tender specifications
http://www.siemens.com/specifications

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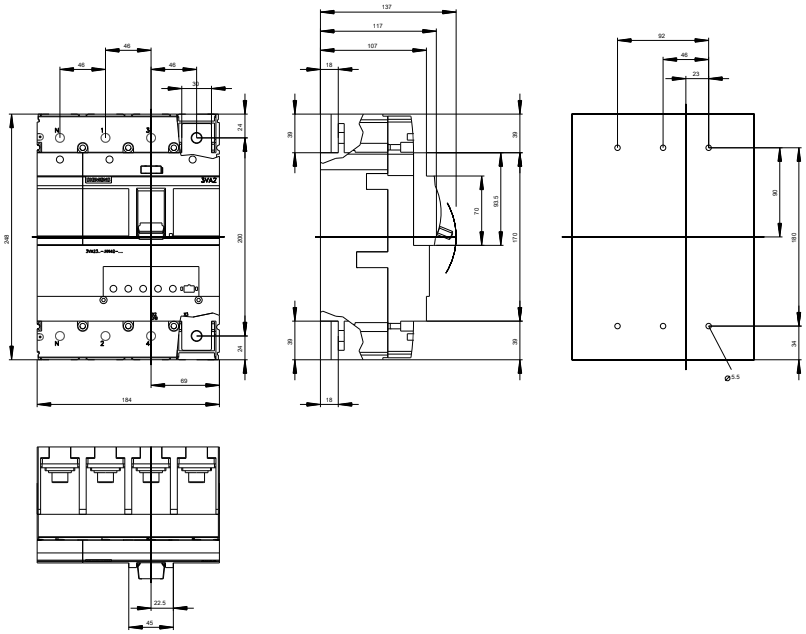

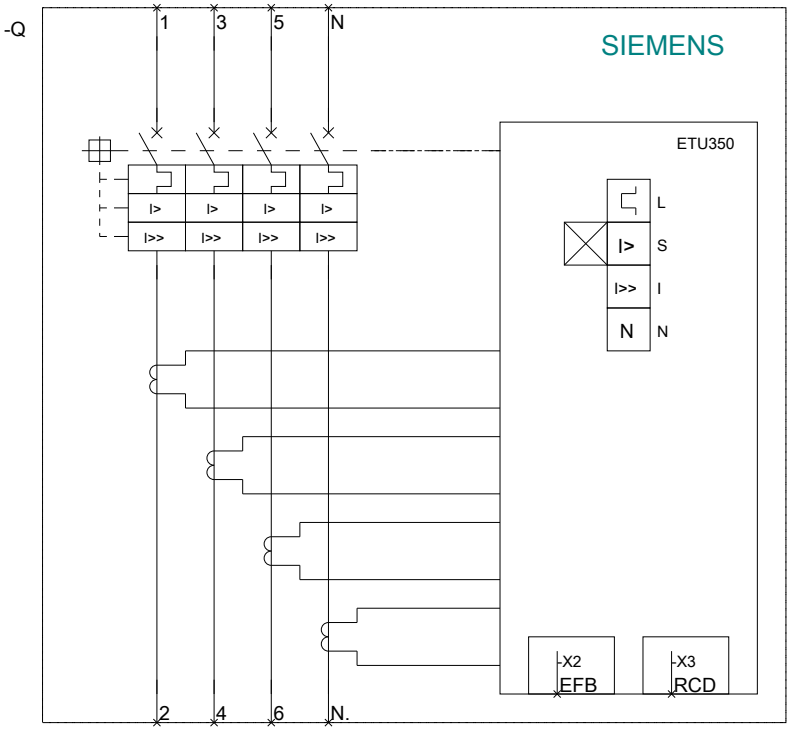

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