SIEMENS

Data sheet 3VA6340-5KQ31-0AA0



CIRCUIT BREAKER 3VA6 UL FRAME 400 BREAKING CAPACITY CLASS M 35KA @ 480V 3-POLE, LINE PROTECTION ETU860, LSIG, IN=400A OVERLOAD PROTECTION IR=160A ...400A SHORT CIRCUIT PROTECTION ISD=0,6..10X IN, II=1,5..10X IN NEUTRAL PROTECTION OPTIONAL WITH EXT. CT,UPTO 160% GROUND-FAULT-PROTECTION IG=0,2... 1 X IN, TG=0,05-0,8S W/O CONNECTION

Model	
Product brand name	SENTRON
Product designation	Molded-case circuit breaker
Design of the product	System protection
Design of the load switch / acc. to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
Design of the overcurrent release	ETU860
Protective function of the overcurrent release	LSIG
Number of poles	3

General technical data	
Tension assignée d'isolement Ui	600 V
Max. rated operational voltage Ue with AC 50/60Hz	600 V
Active power loss / for rated value of the current / at AC / in hot operating state / per device	70 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	23.33 W
Mechanical service life (switching cycles) / typical	15 000

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Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	6 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	4 000
Electrical endurance (switching cycles) / at 480 V / at 50/60 Hz	6 000
Electrical endurance (switching cycles) / at 600 V / at 50/60 Hz	6 000
Neutral conductors / upgradeable/retrofittable	Yes
Ground fault monitoring version	Summation current formation L-conductor
Product function	
• communication function	Yes
• other measurement function	Yes

Electricity

Marking / acc. 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	375 A
• at 60 °C	350 A
• at 65 °C	325 A
• at 70 °C	300 A

Switching capacity according to IEC 60947

Switching capacity class of the circuit breaker	M
Maximum short-circuit current breaking capacity (Icu)	
• at 240 V	85 kA
• at 415 V	55 kA
• at 690 V	5 kA
Operational short-circuit current breaking capacity (Ics)	
• at 240 V	85 kA
• at 415 V	55 kA
• at 690 V	5 kA
Short-circuit current making capacity (Icm)	
• at 240 V	187 kA
• at 415 V	121 kA
• at 690 V	7.5 kA

Switching capacity according to UL 489

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Breaking capacity current	
• at 240 V	100 kA
• at 480 Y/277 V	35 kA
• at 480 V	35 kA
• at 600 Y/347 V	18 kA
• at 600 V	18 kA

Adjustable parameters	
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.	240 A
Adjustable response value current / Ig min.	4 000 A
Adjustable response value current / Ig min.	0.05 s
Adjustable response value current / Ig min.	0.5 s
Adjustable response value current / Ig min.	0.05 s
Adjustable response value current / Ig min.	0.5 s
Adjustable response value current / Ii min.	600 A
Adjustable response value current / Ii max.	4 000 A
Ground fault protection can be switched ON/OFF	Yes
Ground fault protection / tripping switchable / I2t=ON/OFF	Yes
Adjustable response value current / Ig min.	80 A
Adjustable response value current / Ig max.	400 A
Adjustable response value current / tg min.	0.05 s
Adjustable response value current / Ig min.	0.8 s

Mechanical Design	
Height [in]	9.8 in
Height	248 mm
Width [in]	5.4 in
Width	138 mm
Depth [in]	4.3 in
Depth	110 mm

Connections	
Arrangement of electrical connectors / for main current circuit	Without connection
Type of electrical connection / for main current circuit	Without

Auxiliary circuit	
Number of CO contacts / for auxiliary contacts	0

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

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
CSA	UL	VDE		RCM	EG-Konf.

Shipping Approval	other
ABS	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=3VA6340-5KQ31-0AA0

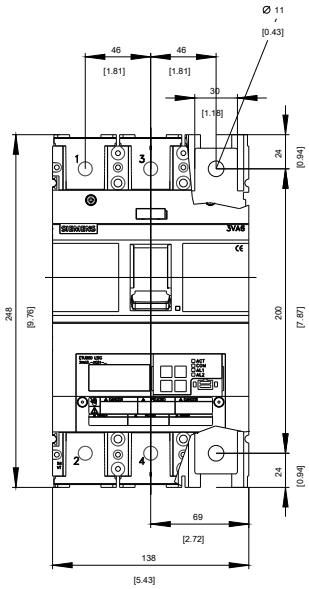
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3VA6340-5KQ31-0AA0

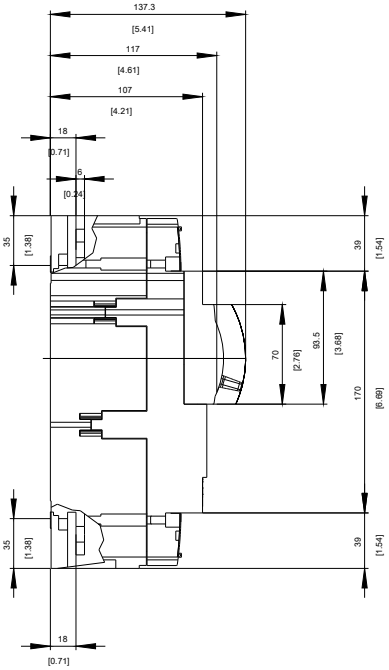
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6340-5KQ31-0AA0

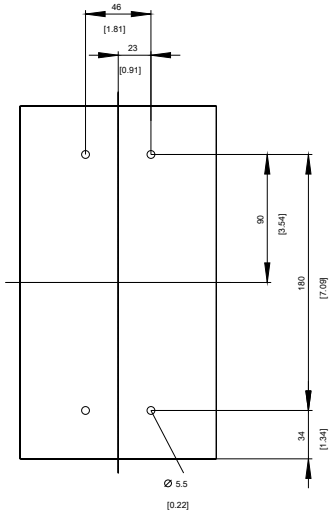
CAx-Online-Generator
http://www.siemens.com/cax

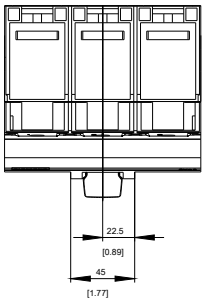
Tender specifications
http://www.siemens.com/specifications

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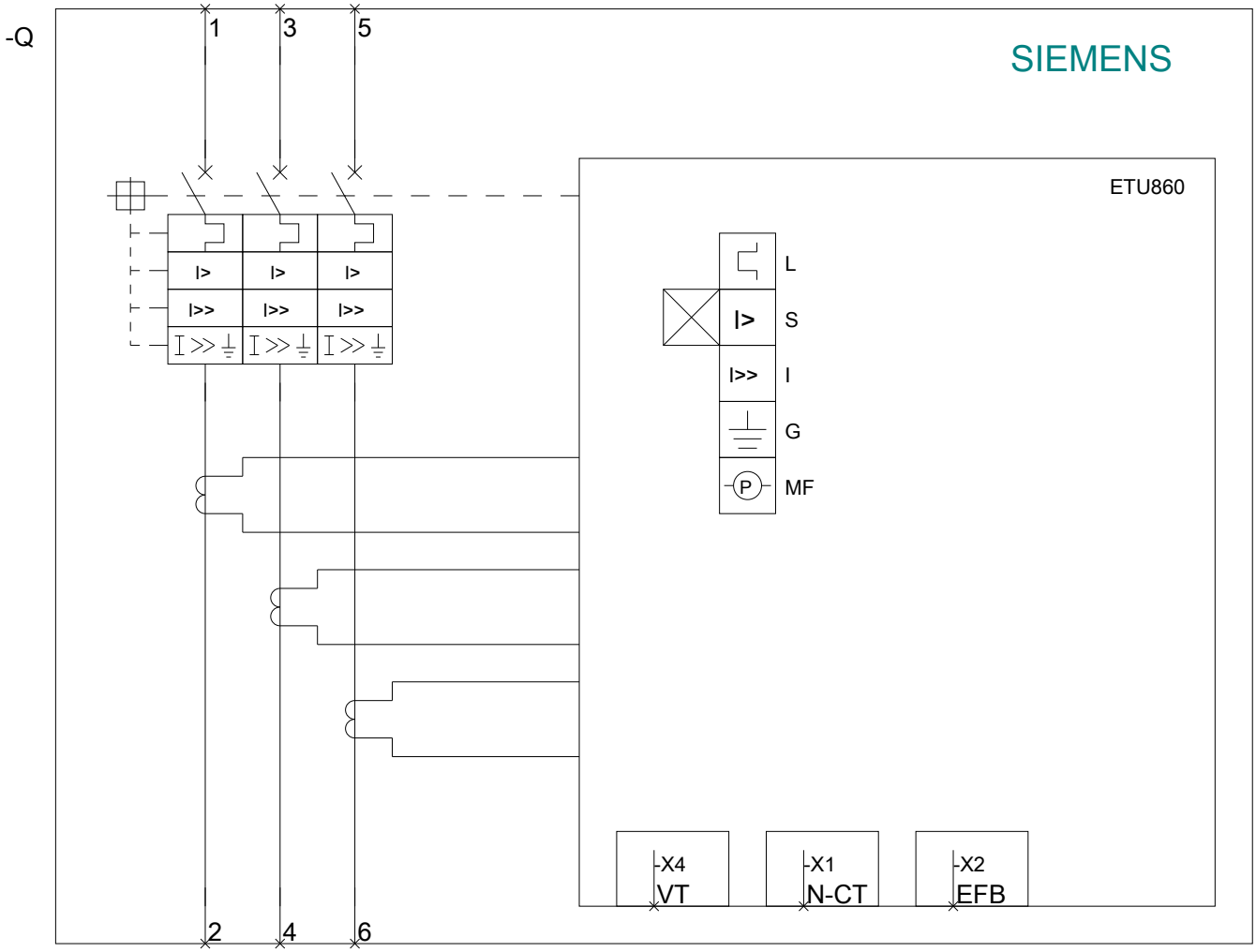




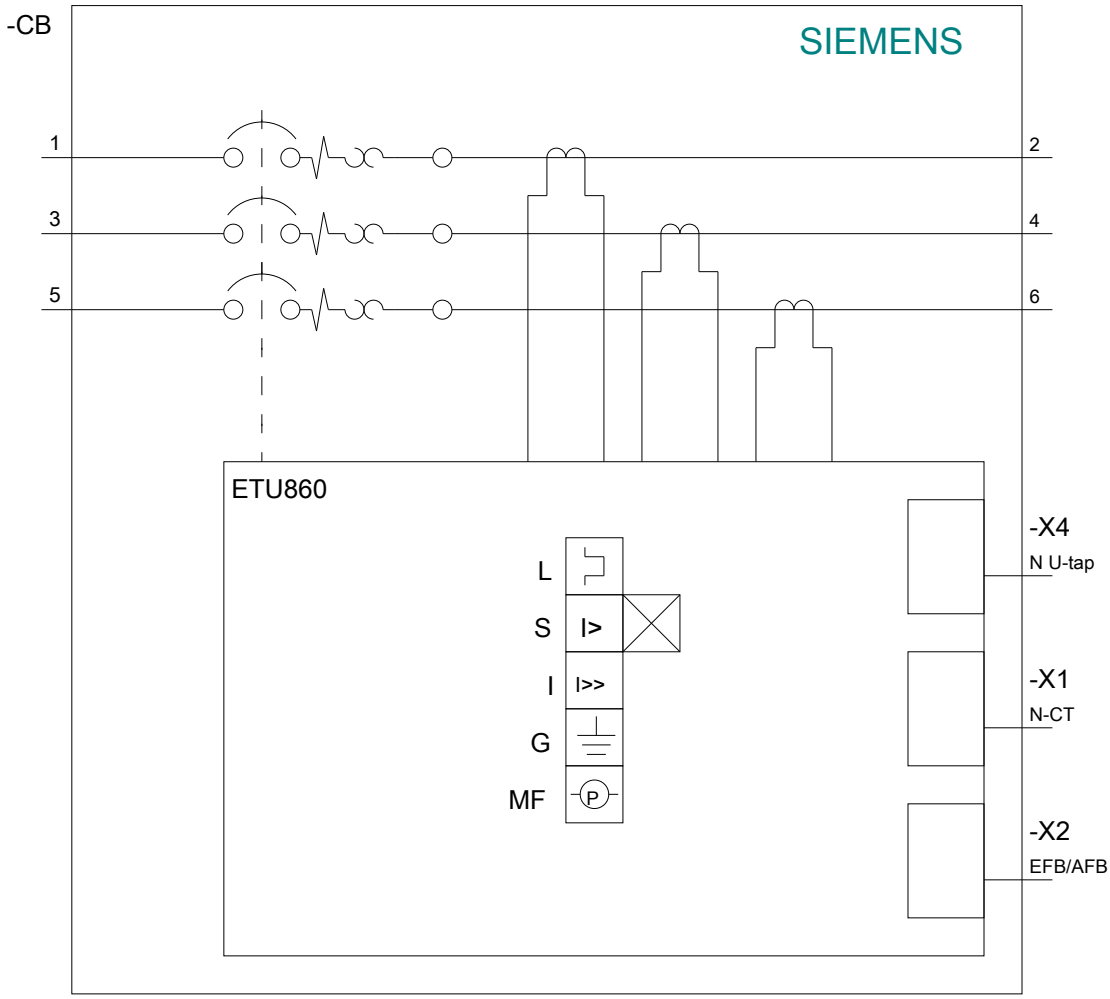




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last modified: 09/15/2017

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