SIEMENS

Data sheet 3VA5225-6EC31-1AA0

CIRCUIT BREAKER 3VA5 UL FRAME 250 BREAKING CAPACITY CLASS H 65KA @ 480V 3-POLE, LINE PROTECTION TM230, FTAM, IN=250A OVERLOAD PROTECTION IR=250A FIXED SHORT CIRCUIT PROTECTION II=5...10 X IN UL489 SB (NAVAL), 50 DEG CEL. 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	TM230
Protective function of the overcurrent release	LI
Number of poles	3

General technical data	
Active power loss / for rated value of the current / at AC / in hot operating state / per device	58 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	19.3 W
Mechanical service life (switching cycles) / typical	15 000
Electrical endurance (switching cycles) / at 480 V / at 50/60 Hz	8 000
Electrical endurance (switching cycles) / at 600 V / at 50/60 Hz	4 000

Neutral conductors / upgradeable/retrofittable	No
Ground fault monitoring version	Without
Product function	
• communication function	No
• other measurement function	No

Electricity

Marking / acc. to UL 489 / 100%-rated breaker	No
Max. rated operational voltage of the size of the circuit-breaker	250 A
Courant permanent assigné Iu	250 A
Operating current	
• at 40 °C	250 A
• at 45 °C	250 A
• at 50 °C	250 A
• at 55 °C	241 A
• at 60 °C	233 A
• at 65 °C	225 A
• at 70 °C	216 A

Switching capacity according to IEC 60947

Switching capacity class of the circuit breaker	H

Switching capacity according to UL 489

Breaking capacity current	
• at 240 V	100 kA
• at 480 V	65 kA
• at 600 V	25 kA

Adjustable parameters

Adjustable response value current / Ig min.	250 A
Adjustable response value current / Ig min.	250 A
Adjustable response value current / Ii min.	1 250 A
Adjustable response value current / Ii max.	2 500 A
Ground fault protection / tripping switchable / I2t=ON/OFF	No

Mechanical Design

Height [in]	7.3 in
Height	185 mm
Width [in]	4.1 in
Width	105 mm
Depth [in]	3.3 in
Depth	83 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

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	Yes

General Product Approval	EMC	Shipping Approval	other
UL EAC	RCM	ABS	Miscellaneous

Further information

Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/lowvoltage/catalogs

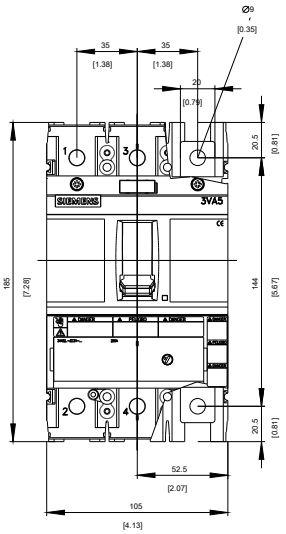
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA5225-6EC31-1AA0

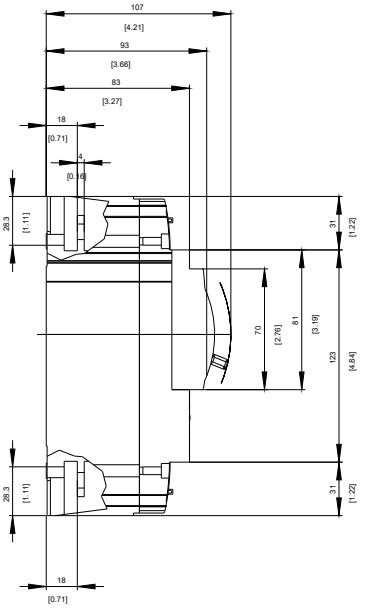
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3VA5225-6EC31-1AA0

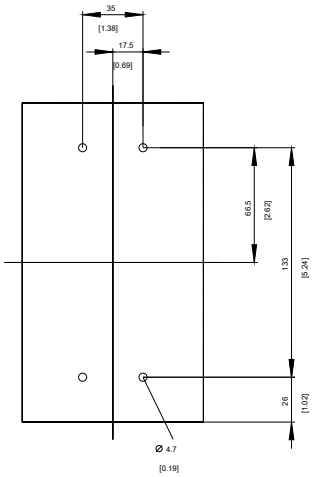
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5225-6EC31-1AA0

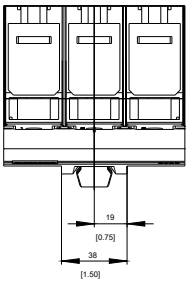
CAx-Online-Generator
http://www.siemens.com/cax

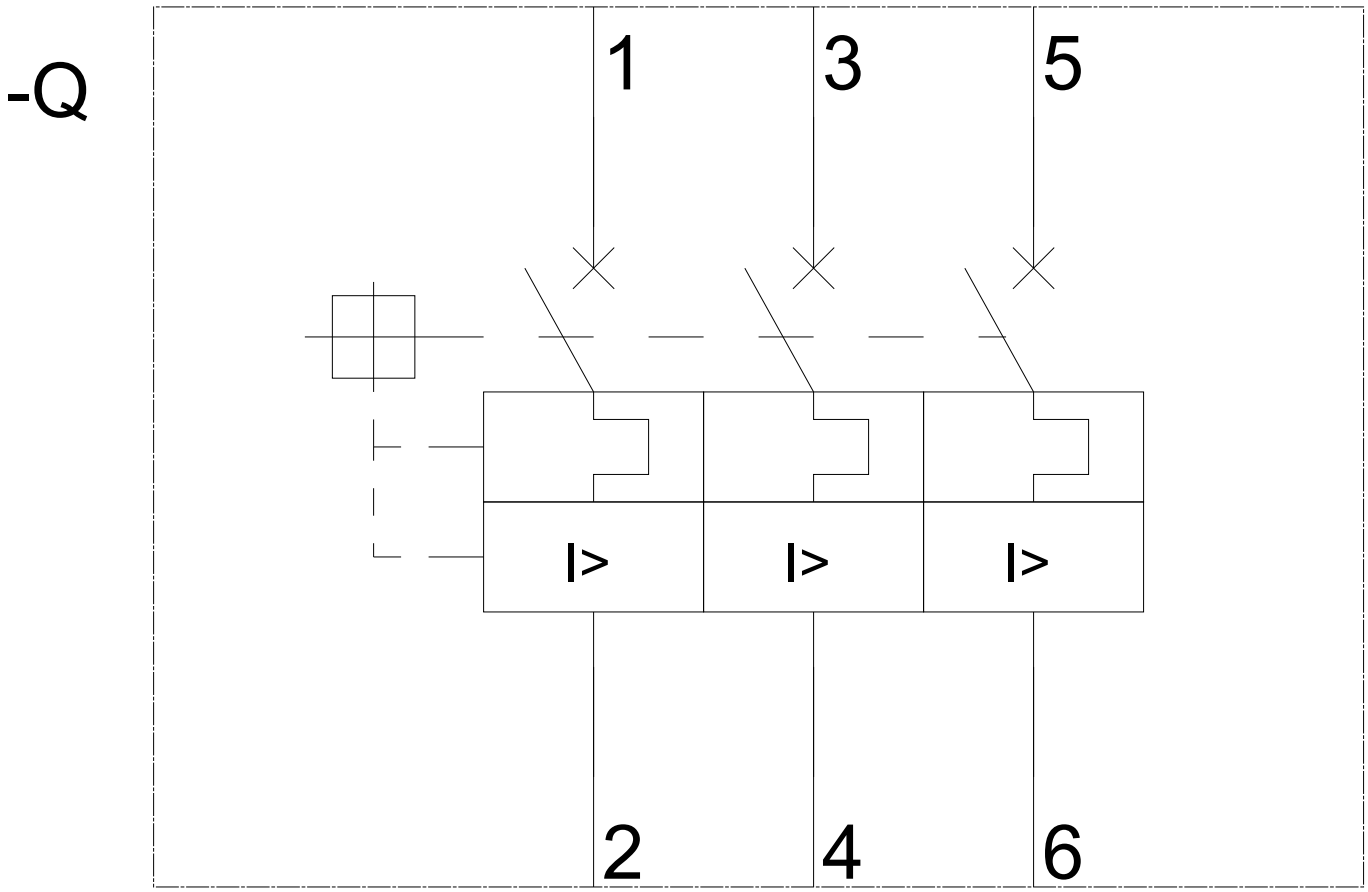
Tender specifications
http://www.siemens.com/specifications

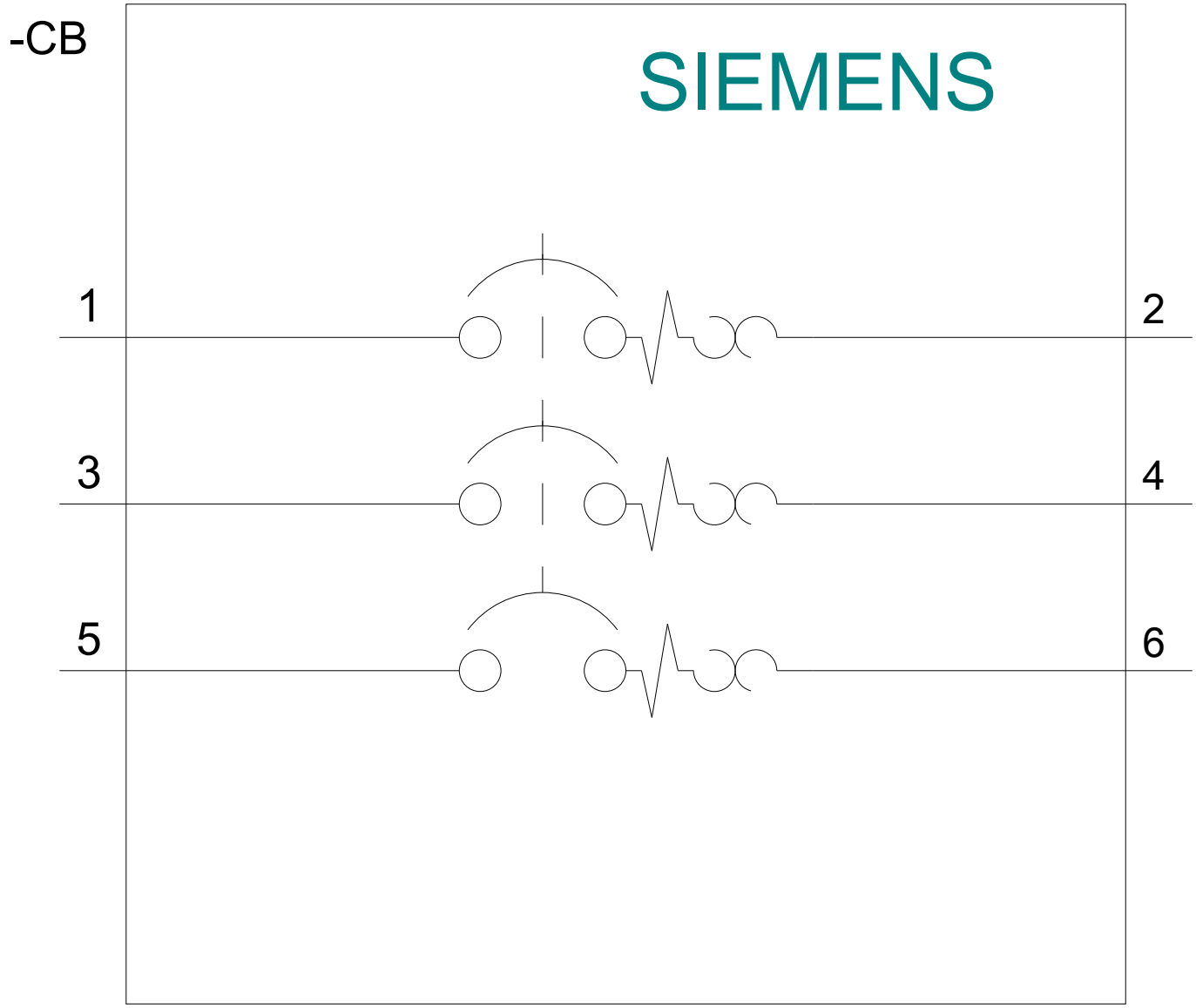












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