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Show actual product details

Data sheet 3VA5220-6EC31-0AA0



CIRCUIT BREAKER 3VA5 UL FRAME 250 BREAKING CAPACITY CLASS H 65KA @ 480 V 3-POLE, LINE PROTECTION TM230, FTAM, IN=200A OVERLOAD PROTECTION IR=200A FIXED SHORT CIRCUIT PROTECTION II=5...10 X IN W/O CONNECTION

Model	
product brandname	SENTRON
Type of load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
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
Max. rated operational voltage Ue with DC	750 V
Active power loss / for rated value of the current / at AC / in hot operating state / per device	42.5 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	14.17 W
Mechanical service life (switching cycles) / typical	15 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	8 000
Electrical lifetime (switching cycles) / at 480 V / at 50/60 Hz	8 000

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Electrical lifetime (switching cycles) / at 600 V / at 50/60 Hz	4 000
Neutral conductors / upgradeable/retrofittable	No
Product function	
• communication function	No
• other measurement function	No

Electricity	
Marking / according to UL 489 / 100%-rated breaker	No
Max. rated operational voltage of the size of the circuit-breaker	250 A
Courant permanent assigné Iu	200 A
Operating current	
• at 40 °C	200 A
• at 45 °C	194 A
• at 50 °C	189 A
• at 60 °C	178 A
• at 65 °C	172 A
• at 70 °C	167 A

Switching capacity according to IEC 60947	
Maximum short-circuit current breaking capacity (Icu)	
• at 240 V	100 kA
• at 415 V	70 kA
• at 690 V	10 kA
Operational short-circuit current breaking capacity (Ics)	
• at 240 V	100 kA
• at 415 V	70 kA
• at 690 V	10 kA
Short-circuit current making capacity (Icm)	
• at 240 V	220 kA
• at 415 V	154 kA
• at 690 V	17 kA

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.	200 A
Adjustable response value current / Ig min.	200 A
Adjustable response value current / Ii min.	1 000 A

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Adjustable response value current / Ii max.	2 000 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

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	No

General Product Approval	EMC	Declaration of Conformity	other
UL EAC RCM		EG-Konf.	sonstig

Further information

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

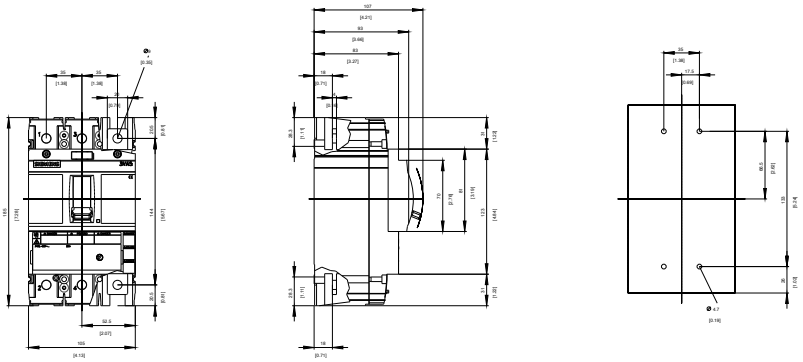
Industry Mall (Online ordering system)
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA5220-6EC31-0AA0

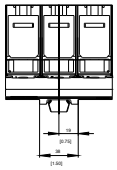
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3VA5220-6EC31-0AA0/all

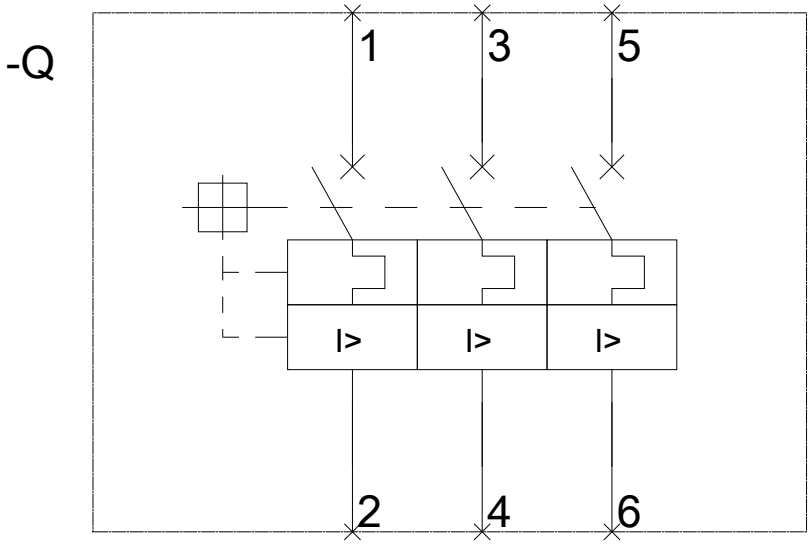
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5220-6EC31-0AA0

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

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