



CIRCUIT BREAKER 3VA5 UL Frame 400 BREAKING CAPACITY CLASS M 35kA @ 480 V 3POLE, LINE PROTECTION TM240, ATAM,  $I_n=225A$  WITHOUT OVERLOAD PROTECTION  $IR=157,5A \dots 225A$  SHORT CIRCUIT PROTECTION  $I_i=5\dots 10 \times I_n$  W/O CONNECTION

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	MJAS
Product version	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	TM240
protection function of the overcurrent release	LI
number of poles	3
General technical data	
Tension assignée d'isolement $U_i$	800 V
Max. rated operational voltage $U_e$ with DC	500 V
power loss [W] / maximum	47.5 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	15.83 W
mechanical service life (switching cycles) / typical	15 000
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	6 000
electrical endurance (switching cycles) / at 480 V	3 000
electrical endurance (switching cycles) / at 600 V	2 700
Neutral conductors / upgradeable/retrofitable	No
ground-fault monitoring version	Without
product function	
• communication function	No
• other measurement function	No
Current	
marking / acc. to UL 489 / 100%-rated breaker	No
Max. rated operational current of the frame size	400 A
Courant permanent assigné $I_u$	225 A
operational current	
• at 45 °C	221 A
• at 50 °C	217 A
• at 55 °C	214 A
• at 60 °C	210 A
• at 65 °C	206 A

• at 70 °C	202 A
<b>Switching capacity according to IEC 60947</b>	
switching capacity class of the circuit breaker	M
breaking capacity maximum short-circuit current (Icu)	
• at 240 V	85 kA
• at 415 V	55 kA
• at 690 V	7 kA
breaking capacity operating short-circuit current (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	116 kA
• at 690 V	11 kA
<b>Switching capacity according to UL 489</b>	
breaking capacity current	
• at 240 V	85 kA
• at 480 V	35 kA
• at 600 V	18 kA
<b>Adjustable parameters</b>	
Adjustable response value current / Ig min.	158 A
Adjustable response value current / Ig min.	225 A
Adjustable response value current / li min.	1 125 A
Adjustable response value current / li max.	2 250 A
Ground fault protection / tripping switchable / I2t=ON/OFF	No
<b>Mechanical Design</b>	
height [in]	9.8 in
Height	248 mm
width [in]	5.4 in
Width	138 mm
depth [in]	4.3 in
depth	110 mm
<b>Connections</b>	
arrangement of electrical connectors / for main current circuit	Without connection
type of electrical connection / for main current circuit	Without
<b>Auxiliary circuit</b>	
number of CO contacts / for auxiliary contacts	0
<b>Accessories</b>	
product extension / optional / motor drive	Yes
<b>Environmental conditions</b>	
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
<b>Certificates</b>	
reference code / acc. to IEC 81346-2	Q
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	No
<b>General Product Approval</b>	



[Miscellaneous](#)

General Product Approval	EMC	Declaration of Conformity	other
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[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=3VA5322-5EF31-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA5322-5EF31-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA5322-5EF31-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5322-5EF31-0AA0)

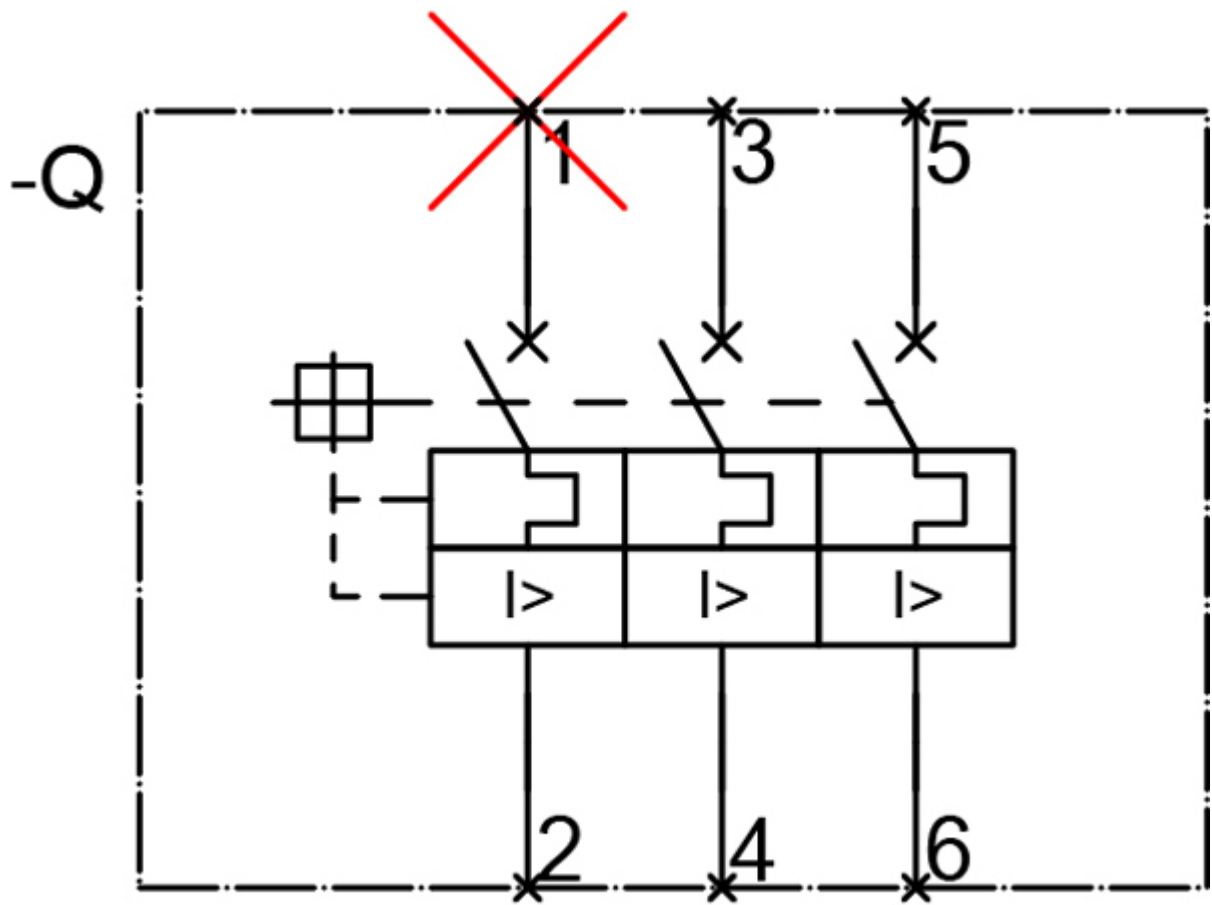
CAX-Online-Generator

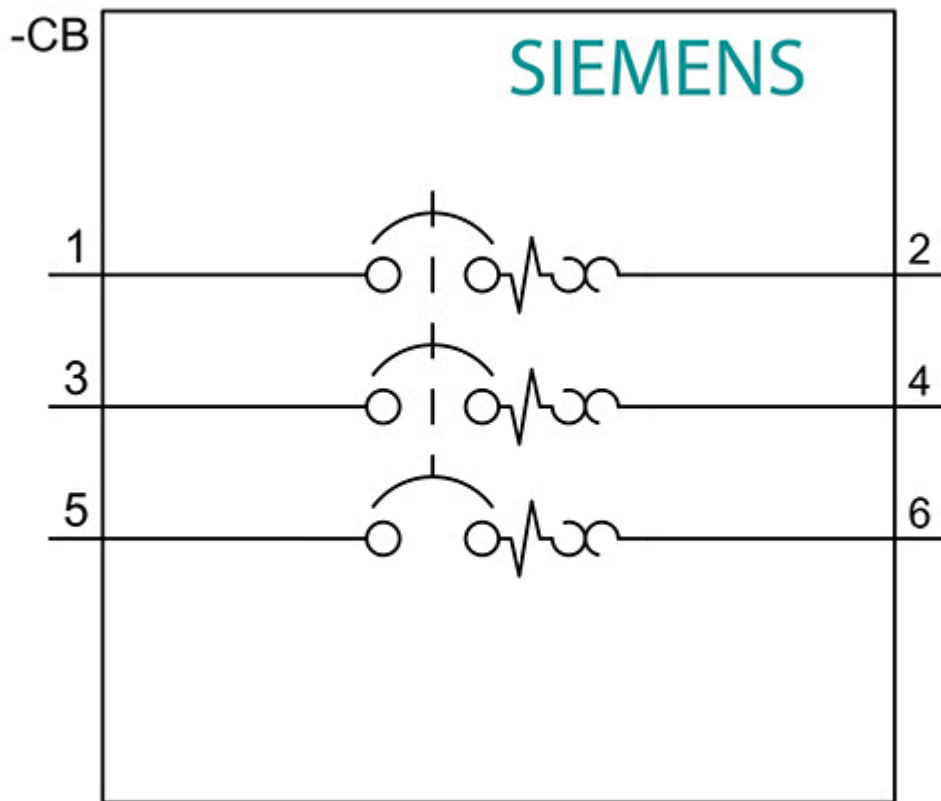
<http://www.siemens.com/cax>

Tender specifications

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







last modified:

4/29/2021 