



circuit breaker 3VA5 UL frame 250 breaking capacity class M 35kA @ 480 V 3-pole, line protection TM240, ATAM, In=150A overload protection Ir=120A...150A short-circuit protection Ii=5...10 x In without connection

Model	
product brand name	SETRON
product designation	Molded-case circuit breaker
product designation / according to UL file	MFAS
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 Ui	800 V
Max. rated operational voltage Ue with AC 50/60Hz	690 V
Max. rated operational voltage Ue with DC	750 V
power loss [W] / maximum	29.9 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	9.97 W
mechanical service life (switching cycles) / typical	20 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	8 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	4 000
electrical endurance (switching cycles) / at 480 V	8 000
electrical endurance (switching cycles) / at 600 V	4 000
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	250 A
Courant permanent assigné Iu	150 A
operational current	
• at 45 °C	150 A
• at 50 °C	150 A
• at 55 °C	145.5 A
• at 60 °C	142.5 A

<ul style="list-style-type: none"> <li>• at 65 °C</li> <li>• at 70 °C</li> </ul>	138 A 132 A		
<b>Switching capacity according to IEC 60947</b>			
switching capacity class of the circuit breaker	M		
breaking capacity maximum short-circuit current (Icu) <ul style="list-style-type: none"> <li>• at 240 V</li> <li>• at 415 V</li> <li>• at 690 V</li> </ul>	85 kA 55 kA 7 kA		
breaking capacity operating short-circuit current (Ics) <ul style="list-style-type: none"> <li>• at 240 V</li> <li>• at 415 V</li> <li>• at 690 V</li> </ul>	85 kA 55 kA 7 kA		
short-circuit current making capacity (Icm) <ul style="list-style-type: none"> <li>• at 240 V</li> <li>• at 415 V</li> <li>• at 690 V</li> </ul>	187 kA 121 kA 11.9 kA		
<b>Switching capacity according to UL 489</b>			
breaking capacity current <ul style="list-style-type: none"> <li>• at 240 V</li> <li>• at 480 V</li> <li>• at 600 Y/347 V</li> </ul>	85 kA 35 kA 18 kA		
<b>Adjustable parameters</b>			
Adjustable response value current / Ig min.	105 A		
Adjustable response value current / Ig min.	150 A		
Adjustable response value current / li min.	750 A		
Adjustable response value current / li max.	1 500 A		
Ground fault protection / tripping switchable / I2t=ON/OFF	No		
<b>Mechanical Design</b>			
height [in]	7.3 in		
Height	185 mm		
width [in]	4.1 in		
Width	105 mm		
depth [in]	3.3 in		
depth	83 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 <ul style="list-style-type: none"> <li>• during operation / minimum</li> <li>• during operation / maximum</li> <li>• during storage / minimum</li> <li>• during storage / maximum</li> </ul>	-25 °C 70 °C -40 °C 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>		<b>EMC</b>	<b>Declaration of Conformity</b>



[Miscellaneous](#)



EG-Konf.

Shipping Approval

other



[Miscellaneous](#)

ABS

LRS

#### 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=3VA5215-5EF31-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA5215-5EF31-0AA0>

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

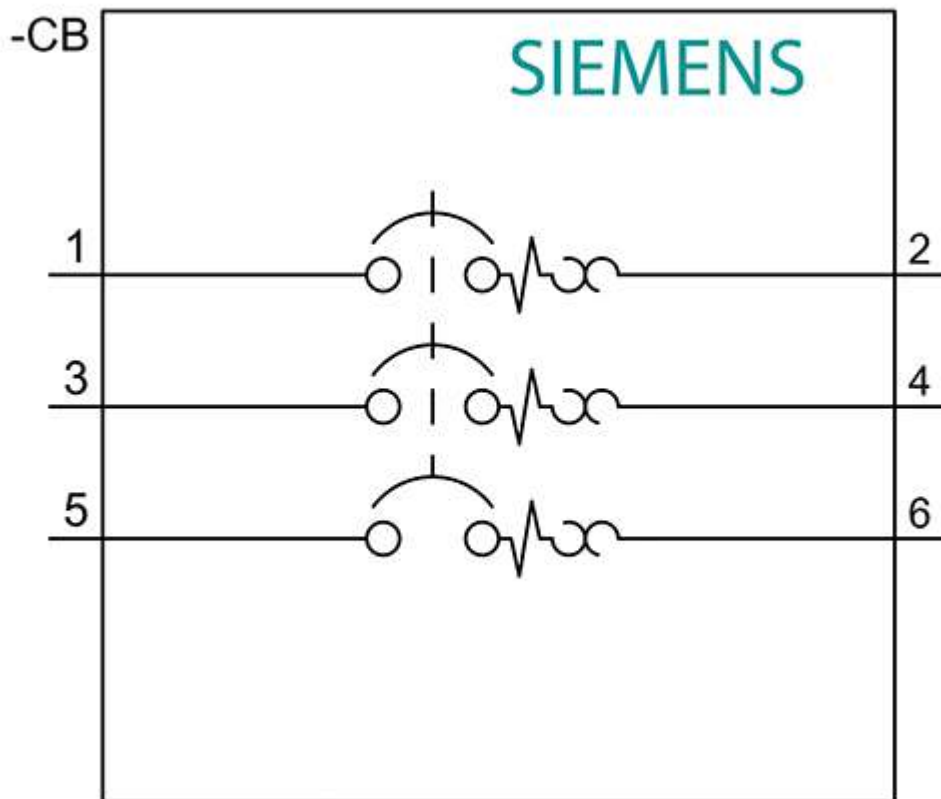
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA5215-5EF31-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5215-5EF31-0AA0)

**Tender specifications**

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







last modified:

1/8/2021 