



circuit breaker 3VA5 UL frame 800 breaking capacity class M 35kA @ 480 V 3-pole, line protection TM230, FTAM, In=600A overload protection Ir=600A fixed short circuit protection li=5...10 x In

Model	
product brand name	SETRON
product designation	Molded-case circuit breaker
product designation / according to UL file	MMAS
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 load switch / acc. to UL 489 / High-Intensity-Discharge circuit breaker (HID Type)	No
design of the load switch / acc. to UL 489 / Switching Duty circuit breaker (SWD Type)	No
design of the overcurrent release	TM230
protection function of the overcurrent release	LI
number of poles	3
General technical data	
rated insulation voltage Ui	800 V
Max. rated operational voltage Ue with DC	750 V
power loss [W] / maximum	162 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	54 W
mechanical service life (switching cycles) / typical	10 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	5 100
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	3 500
electrical endurance (switching cycles) / at 480 V	5 100
electrical endurance (switching cycles) / at 600 V	3 500
Neutral conductors / upgradeable/retrofitable	No
product function	
• communication function	No
• other measurement function	No
Net Weight	12,76 kg
Current	
marking / acc. to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	600 A
• at 45 °C	583 A
• at 50 °C	566 A
• at 55 °C	549 A
• at 60 °C	532 A

• at 65 °C • at 70 °C	515 A 497 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	M
breaking capacity maximum short-circuit current (Icu) • at 240 V • at 415 V • at 690 V	85 kA 55 kA 25 kA
breaking capacity operating short-circuit current (Ics) • at 240 V • at 415 V • at 690 V	85 kA 55 kA 19 kA
short-circuit current making capacity (Icm) • at 240 V • at 415 V • at 690 V	187 kA 121 kA 52.5 kA
design of short-circuit protection	For switching power values in DC networks, see the 3VA molded case circuit breaker device manual; link to be found under Service & Support in the last chapter
Switching capacity according to UL 489	
breaking capacity current • at 240 V • at 480 V • at 600 V	85 kA 35 kA 18 kA
Adjustable parameters	
Adjustable response value current / I _g min.	600 A
Adjustable response value current / I _g min.	600 A
Ground fault protection / tripping switchable / I _{2t} =ON/OFF	No
Mechanical Design	
height [in]	12.91 in
Height	328 mm
width [in]	8.27 in
Width	210 mm
depth [in]	4.72 in
depth	120 mm
Connections	
arrangement of electrical connectors / for main current circuit	Front connection
Type of connectable conductor cross-section, connection screw, width x thickness , min.	20 x 4 mm
Auxiliary circuit	
product component • undervoltage release • voltage trigger • trip indicator	No No No
number of CO contacts / for auxiliary contacts	0
Environmental conditions	
protection class IP / on the front	IP40
ambient temperature • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum	-25 °C 70 °C -40 °C 80 °C
Certificates	
reference code / acc. to IEC 81346-2	Q
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	No
General Product Approval	
EMC	



[Miscellaneous](#)



Declaration of Conformity

Marine / Shipping

other



EG-Konf.

[UK Declaration of Conformity](#)



[Miscellaneous](#)

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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=3VA5560-5EC32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA5560-5EC32-0AA0>

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

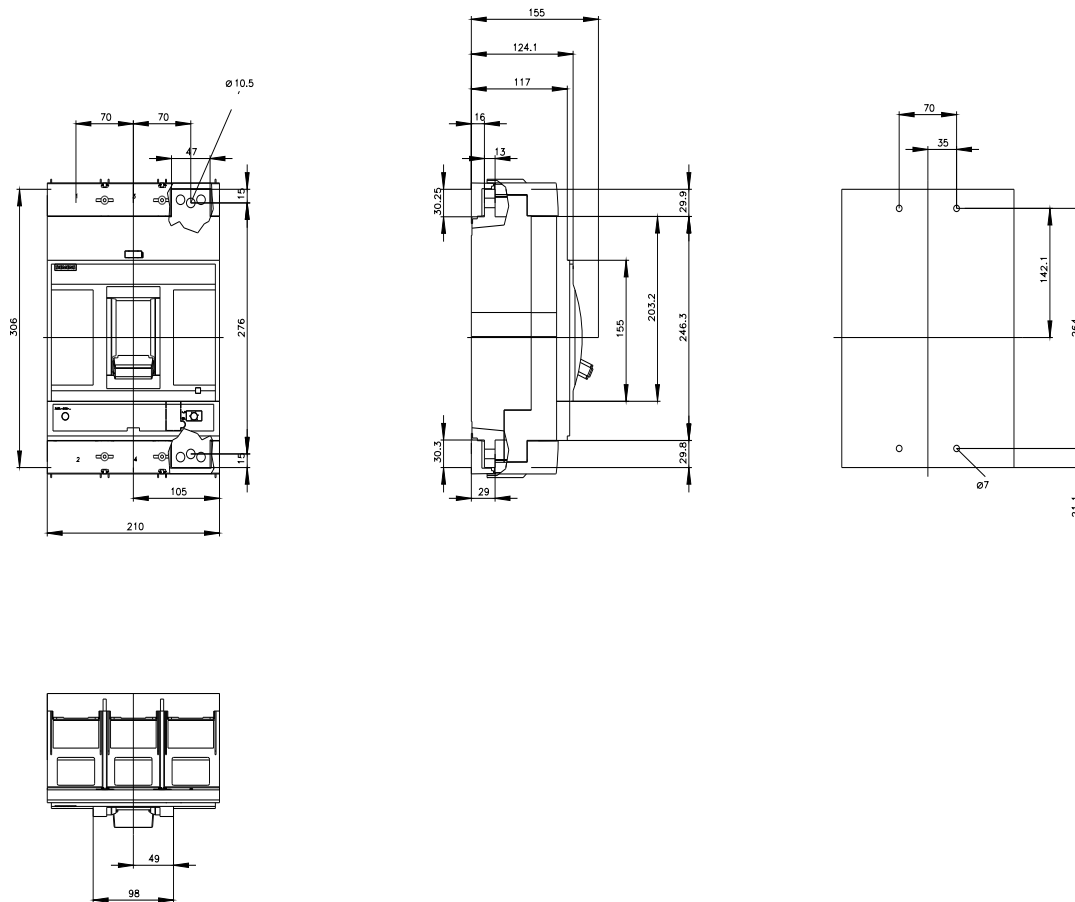
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5560-5EC32-0AA0

CAX-Online-Generator

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

Tender specifications

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



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