



circuit breaker 3VA5 UL Frame 400 breaking capacity class M 35 kA @ 480 V 4-pole, line protection TM230, FTAM, In=400 A overload protection, 100%-rated Ir=400 A permanently set short-circuit protection Ii=5...10 x In N conductor unprotected without connection

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	MJAS
design of the product	System protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design of the load switch / according to UL 489 / High-Intensity-Discharge circuit breaker (HID Type)	No
design of the load switch / according 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	4
General technical data	
insulation voltage / rated value	800 V
operating voltage / at DC / rated value	600 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	92 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	30.73 W
mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	6 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	3 000
electrical endurance (operating cycles) / at 480 V	6 000
electrical endurance (operating cycles) / at 600 V	3 000
product feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof	No
product function	
• communication function	No
• other measurement function	No
Net Weight	6 820 g
Current	
marking / according to UL 489 / 100%-rated breaker	Yes
operational current	
• at 40 °C	400 A
• at 45 °C	392 A
• at 50 °C	384 A
• at 55 °C	375 A
• at 60 °C	367 A

<ul style="list-style-type: none"> • at 65 °C 	359 A
<ul style="list-style-type: none"> • at 70 °C 	351 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	M
maximum short-circuit current breaking capacity (I _{cu})	
<ul style="list-style-type: none"> • at 240 V 	85 kA
<ul style="list-style-type: none"> • at 415 V 	55 kA
<ul style="list-style-type: none"> • at 690 V 	10 kA
operating short-circuit current breaking capacity (I _{cs})	
<ul style="list-style-type: none"> • at 240 V 	85 kA
<ul style="list-style-type: none"> • at 415 V 	55 kA
<ul style="list-style-type: none"> • at 690 V 	6 kA
short-circuit current making capacity (I _{cm})	
<ul style="list-style-type: none"> • at 240 V 	187 kA
<ul style="list-style-type: none"> • at 415 V 	121 kA
<ul style="list-style-type: none"> • at 690 V 	17 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	
current breaking capacity	
<ul style="list-style-type: none"> • at 240 V 	85 kA
<ul style="list-style-type: none"> • at 480 V 	35 kA
<ul style="list-style-type: none"> • at 600 V 	18 kA
Adjustable parameters	
adjustable response value setting current (I _r) / of the L-trip / with I ² t characteristic	
<ul style="list-style-type: none"> • minimum 	400 A
<ul style="list-style-type: none"> • maximum 	400 A
adjustable response value delay time (t _r) / for L-tripping / with I ² t characteristic	
<ul style="list-style-type: none"> • minimum 	1 s
<ul style="list-style-type: none"> • maximum 	1 s
adjustable response value setting current (I _i) / for I-tripping	
<ul style="list-style-type: none"> • minimum 	2 000 A
<ul style="list-style-type: none"> • maximum 	4 000 A
adjustable setting current (I _{nN}) / for N-tripping	
<ul style="list-style-type: none"> • minimum 	0 A
<ul style="list-style-type: none"> • maximum 	0 A
design of the N-conductor protection	Without
product function / grounding protection	No
Mechanical Design	
product component	
<ul style="list-style-type: none"> • undervoltage release 	No
<ul style="list-style-type: none"> • voltage trigger 	No
<ul style="list-style-type: none"> • trip indicator 	No
height [in]	9.76 in
height	248 mm
width [in]	7.24 in
width	184 mm
depth [in]	4.33 in
depth	110 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
manufacturer's article number	

- of the supplied basic switch

[3VA53405EC412AA0](#)

Environmental conditions

protection class IP / on the front	IP40
ambient temperature	
<ul style="list-style-type: none"> • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum 	-25 °C 70 °C -40 °C 80 °C
reference code / according to IEC 81346-2	Q

Approvals / Certificates

General Product Approval



[Miscellaneous](#)



General Product Approval	EMV	Test Certificates	other	Miscellaneous	Environment
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[Type Test Certificates/Test Report](#)

[Confirmation](#)

[Miscellaneous](#)

[Environmental Confirmations](#)

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA5340-5EC41-2AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA5340-5EC41-2AA0>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5340-5EC41-2AA0

CAX-Online-Generator

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

Tender specifications

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





