Data sheet

3VA5212-5EC41-0AA0



circuit breaker 3VA5 UL frame 250 breaking capacity class M 35kA @ 480 V 4-pole, line protection TM230, FTAM, In=125A overload protection Ir=125A fixed 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	MFAS
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	1 000 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	23 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	7.53 W
mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	8 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	4 000
electrical endurance (operating cycles) / at 480 V	8 000
electrical endurance (operating cycles) / at 600 V	4 000
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No
ground-fault monitoring version	without
product function	
 communication function 	No
other measurement function	No
Net Weight	2.55 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	125 A
• at 45 °C	121 A
• at 50 °C	116 A
• at 55 °C	112 A
• at 60 °C	108 A
● at 65 °C	103 A

Switching capacity according to IEC 0947 avithing capacity Gass of the circuit breaker maniforms affort-circuit current breaking capacity (fou) at 240 V at 160 V at 160 V A at 141 S A A A A A A A A A A A A A A A A A A A	• at 70 °C	99 A
switching capacity according to UL 439 current treating capacity (101) 4 at 14 5 Y 5		
maximum short-crout current breaking capacity (icu)		M
** 1240 V		
+ all 415 V		85 kA
operating short-circuit current breaking capacity (ics) • 120 V • 1415 V • 1600 V 7 NA * 1600 V 187 NA • 1600 V 187 NA • 1600 V 187 NA • 1600 V 189 NA • 1600 V 199 NA design of short-circuit current making capacity (icm) • 1240 V • 18 145 V • 1600 V 199 National 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 character court threaking capacity • 1240 V • 1400 V • 1500 NA * 1500 NA		
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and 240 V and 415 V and 41		
• #14 15 V 150 NA 7 kA 157 kA 159 kA		85 kA
• at 240 V		
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Accessories product extension / optional / motor drive Environmental conditions Yes	Auxiliary circuit	
product extension / optional / motor drive Yes Environmental conditions	number of CO contacts / for auxiliary contacts	0
Environmental conditions	Accessories	
	product extension / optional / motor drive	Yes
protection class IP / on the front IP40	Environmental conditions	
	protection class IP / on the front	IP40

ambient temperature

• during operation / minimum

• during operation / maximum

70 °C

• during storage / minimum

• during storage / maximum

80 °C

Certificates

reference code / according to IEC 81346-2

Q

General Product Approval

Confirmation







Miscellaneous



EMC Declaration of Conformity

other









Marine / Shipping

<u>Miscellaneous</u>

Confirmation

other

Miscellaneous

Further informatior

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

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

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=3VA5212-5EC41-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5212-5EC41-0AA0

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

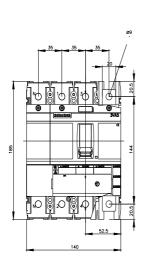
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5212-5EC41-0AA0

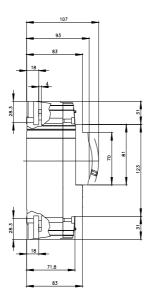
CAx-Online-Generator

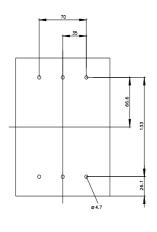
http://www.siemens.com/cax

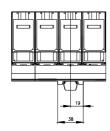
Tender specifications

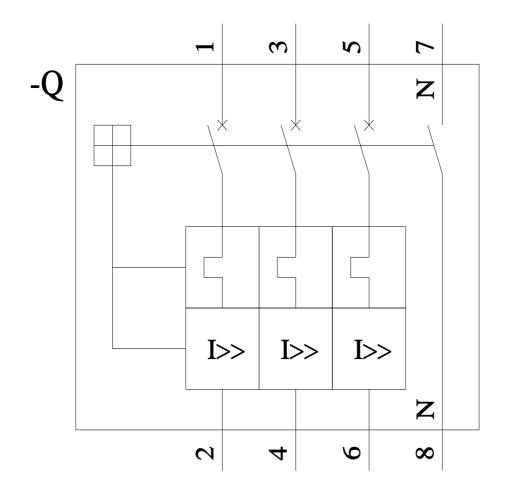
http://www.siemens.com/specifications

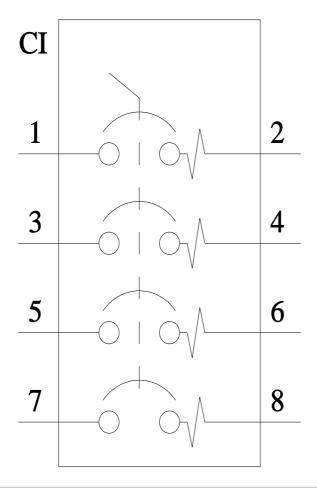












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