SIEMENS

Data sheet



circuit breaker 3VA5 UL frame 250 breaking capacity class H 65kA @ 480V 4-pole, line protection TM230, FTAM, In=225A overload protection Ir=225A fixed short-circuit protection Ii=5...10 x In N conductor protection 100% without connection

Model		
product brand name	SENTRON	
product designation	Molded-case circuit breaker	
product designation / according to UL file	HFAS	
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	Ц	
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	51 W	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	17.07 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	2.7 kg	
Current		
marking / according to UL 489 / 100%-rated breaker	No	
operational current		
• at 40 °C	225 A	
● at 45 °C	220 A	
● at 50 °C	216 A	
● at 55 °C	211 A	
• at 60 °C	206 A	
● at 65 °C	201 A	

Switching capacity according to IEC 6947 switching capacity class of the crount breaker maximum short-current current breaking capacity (cu) • at 240 V • at 415 V • at 1660 V • at 1650	• at 70 °C	197 A
switching capacity account free drout treater ### 120 V ### 240 V ### 241 50 V ### 240 V ### 24		
maximum short-circuit current breaking capacity (xxx) • al 260 V • al 415 V		Н
• 12 40 V		
* a14 5 V		100 kA
operating short-circuit current breaking capacity (ics) • at 240 V • at 45 V • at 660 V • at 415 V • at 660 V • at 660 V • at 440 V • at 480 V • at 480 V • at 480 V • at 480 V • at 480 V • at 680 V • a		
operating short-circuit current breaking capacity (ics) • at 240 V • at 45 V • at 660 V • at 415 V • at 660 V • at 660 V • at 440 V • at 480 V • at 480 V • at 480 V • at 480 V • at 480 V • at 680 V • a		
1240 V		
• at 415 V 10 kA		100 kA
and task of V short-circuit current making capacity (icm) at 240 V at 415 V at 145 V at 1690 V 17 kA design of short-circuit protection breaker device manual: link to be found under Service & Support in the last chapter Switching capacity according to UL 489 current breaking capacity at 200 V at 480 V at 800 V design of short-circuit protection at 200 V at 800 V design of short-circuit protection breaker device manual: link to be found under Service & Support in the last chapter Switching capacity according to UL 489 current breaking capacity at 200 V design of the Company of the		
short-croat current making capacity (lcm) • al 240 V • al 415 V • at 450 V • at 450 V • at 450 V design of short-circuit protection For switching power values in DC networks, see the 3VA moided 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 • al 480 V • al 55 kA Adjustable parameters adjustable response value delay time (tr) / for L-tripping / with 12t characteristic • minimum • maximum adjustable response value setting current (li) / for I-tripping / with 12t characteristic • minimum • maximum 1 15 • maximum adjustable response value setting current (li) / for I-tripping • minimum • maximum adjustable current (lnk) / for N-tripping • minimum • maximum 225 A • adjustable current (lnk) / for N-tripping • minimum • maximum adjustable current response value current / of the current-dependent overfoad release • monochood or protection product function / grounding protection No No No No No No No No No		10 kA
at 240 V at 415 V at 415 V 154 kA 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 459 Current breaking capacity at 430 V at 480 V at 480 V at 800 V Adjustable parameters adjustable parameters adjustable personse value setting current (Ir) / of the L-trip / with IZI characteristic inimimum adjustable response value delay time (tr) / for L-tripping / with IZI characteristic inimimum adjustable carent response value setting current (III) / for I-tripping / with IZI characteristic inimimum adjustable response value setting current (III) / for I-tripping / with IZI characteristic inimimum adjustable current response value current (III) / for I-tripping inimimum adjustable current (InN) / for N-tripping inimimum adjustable current response value current of the current-dependent overload release design of the N-conductor protection roduct function / grounding protection No Mechanical Design including in product component undervoltage release voltage frigger volument reliable in No voltage release voltage frigger volument reliable in No voltage release voltage frigger volument reliable in No volument reliable in No voltage release voltage frigger volument reliable in No volument re		
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breaker device manual; link to be found under Service & Support in the last chapter Switching capacity according to UL 489 current breaking capacity • at 240 V • at 480 V • at 680 V Adjustable parameters adjustable response value setting current (ir) / of the L-tip / with Izt characteristic • minimum • maximum 1 s adjustable response value delay time (it) / for L-tripping / with Izt characteristic • minimum • maximum 1 s adjustable response value setting current (iii) / for I-tripping / with Izt characteristic • minimum • maximum 1 s adjustable response value setting current (iii) / for I-tripping • minimum • maximum 2 250 A • maximum	● at 690 V	17 kA
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Adjustable parameters adjustable response value setting current (ir) / of the L-trip / with 225 A 22		65 kA
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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 -25 °C • during operation / minimum • during operation / maximum 70 °C • during storage / minimum -40 °C 80 °C • during storage / maximum reference code / according to IEC 81346-2 Q





Confirmation





Miscellaneous



EMC Declaration of Conformity

Marine / Shipping

other









Miscellaneous

Confirmation

other

Miscellaneous

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=3VA5222-6GC41-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5222-6GC41-0AA0

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

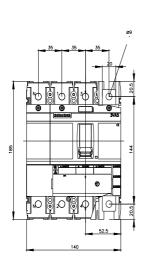
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5222-6GC41-0AA0

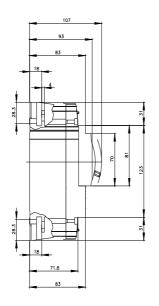
CAx-Online-Generator

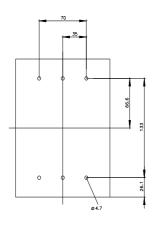
http://www.siemens.com/cax

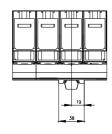
Tender specifications

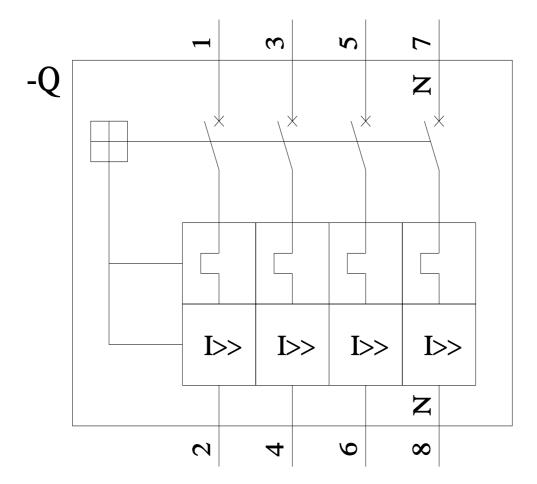
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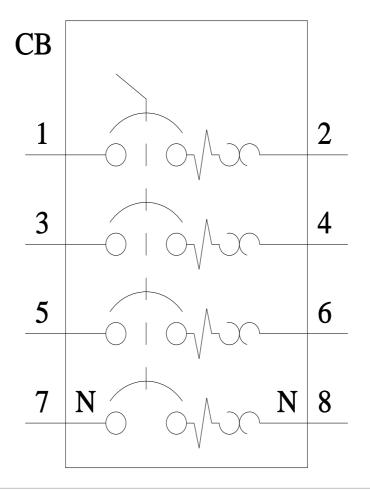












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