3VA5220-6GC41-0AA0

Data sheet



circuit breaker 3VA5 UL frame 250 breaking capacity class H 65kA @ 480V 4-pole, line protection TM230, FTAM, In=200A overload protection Ir=200A fixed short-circuit protection li=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	
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	TM230	
protection function of the overcurrent release	LI	
number of poles	4	
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	1 000 V	
power loss [W] / maximum	42.5 W	
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	14.17 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/retrofittable	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 lu	200 A	
operational current		
● at 40 °C	200 A	
● at 45 °C	200 A	
• at 50 °C	200 A	
● at 55 °C	194 A	

● at 60 °C	190 A
• at 65 °C	184 A
• at 70 °C	176 A
	170 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	Н
breaking capacity maximum short-circuit current (Icu)	400 hA
• at 240 V	100 kA
• at 415 V	70 kA
• at 690 V	10 kA
breaking capacity operating short-circuit current (Ics) • at 240 V	100 kA
• at 415 V	70 kA
• at 690 V	10 kA
short-circuit current making capacity (lcm)	10.101
• at 240 V	220 kA
• at 415 V	154 kA
• at 690 V	17 kA
design of short-circuit protection	For switching power values in DC networks, see the 3VA molded case
т	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	100 kA
● at 480 V	65 kA
● at 600 Y/347 V	25 kA
Adjustable parameters	
Adjustable response value current / lg min.	200 A
Adjustable response value current / lg min.	200 A
Adjustable response value current / li min.	1 000 A
Adjustable response value current / li max.	2 000 A
design of the N-conductor protection	100%
Ground fault protection / tripping switchable / I2t=ON/OFF	No
Mechanical Design	
height [in]	7.3 in
Height	185 mm
width [in]	5.5 in
Width	140 mm
depth [in]	3.3 in
depth	83 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
Environmental conditions	
protection class IP / on the front	IP40
ambient temperature	
during operation / minimum	-25 °C
during operation / maximum	70 °C
during storage / minimum	-40 °C
during storage / maximum	80 °C
Certificates	
reference code / acc. to IEC 81346-2	Q
certificate of suitability / as approval for NAVAL (no	No
combat vessels) / supplement SB	





Miscellaneous

EAC

EAC



Declaration of Conformity

Shipping Approval

other







Miscellaneous

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=3VA5220-6GC41-0AA0

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

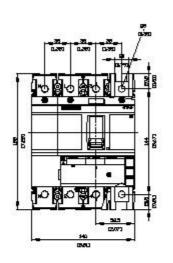
https://support.industry.siemens.com/cs/ww/en/ps/3VA5220-6GC41-0AA0

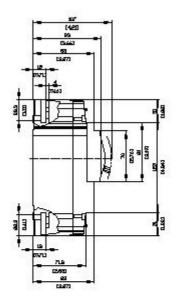
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

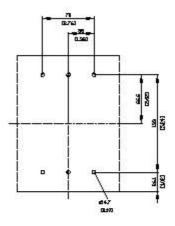
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5220-6GC41-0AA0

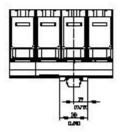
Tender specifications

http://www.siemens.com/specifications









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