3VA5210-6EC32-0AA0

Data sheet



circuit breaker 3VA5 UL frame 250 breaking capacity class H 65kA @ 480 V 3-pole, line protection TM230, FTAM, In=100A overload protection Ir=100A fixed short-circuit protection Ii=5...10 x In nut keeper kit on both sides

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 / 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	3
General technical data	
rated insulation voltage Ui	800 V
Max. rated operational voltage Ue with DC	750 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	32 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	10.53 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
Net Weight	2.192 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	100 A
• at 45 °C	97 A
● at 50 °C	95 A

• at 55 °C	92 A
• at 60 °C	89 A
• at 65 °C	87 A
• at 70 °C	84 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	Н
breaking capacity maximum short-circuit current (lcu)	400 1-4
• at 240 V	100 kA
at 415 V at 690 V	70 kA 10 kA
breaking capacity operating short-circuit current (lcs)	10 KA
• at 240 V	100 kA
• at 415 V	70 kA
• at 690 V	10 kA
short-circuit current making capacity (Icm)	
• 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 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 V	25 kA
Adjustable parameters	
Adjustable response value current / lg min.	100 A
Adjustable response value current / lg min.	100 A
Ground fault protection / tripping switchable / I2t=ON/OFF	No
Mechanical Design	
height [in]	7.28 in
Height	185 mm
width [in]	4.13 in
Width	105 mm
depth [in]	3.27 in
depth	83 mm
Connections	5 1 "
arrangement of electrical connectors / for main current circuit	Front connection
type of electrical connection / for main current circuit	nut keeper kit on both ends
Type of connectable conductor cross-section, connection screw, width x thickness , min.	13 x 1 mm
Type of connectable conductor cross-section, connection screw, width x thickness , max.	25 x 8 mm
design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)	silver
Auxiliary circuit	
product component	Ti de la companya de
undervoltage release	No
voltage trigger	No No
trip indicator pumber of CO contacts / for qualitary contacts	No
number of CO contacts / for auxiliary contacts	0
Accessories	Voc
product extension / optional / motor drive	Yes
Environmental conditions	IDAO
protection class IP / on the front	IP40
ambient temperature	25 °C
during operation / maximum	-25 °C 70 °C
during operation / maximum	70 G

during storage / minimum
 during storage / maximum
 40 °C
 80 °C

Certificates

reference code / according to IEC 81346-2 Q

General Product Approval

EMC

Declaration of Conformity



Confirmation









Declaration of Conformity

Marine / Shipping

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=3VA5210-6EC32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5210-6EC32-0AA0

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

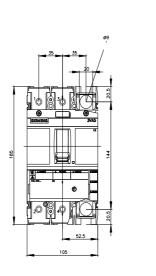
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5210-6EC32-0AA0

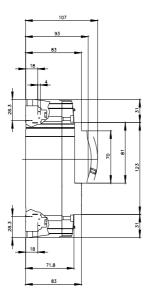
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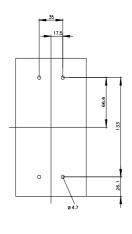
http://www.siemens.com/cax

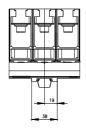
Tender specifications

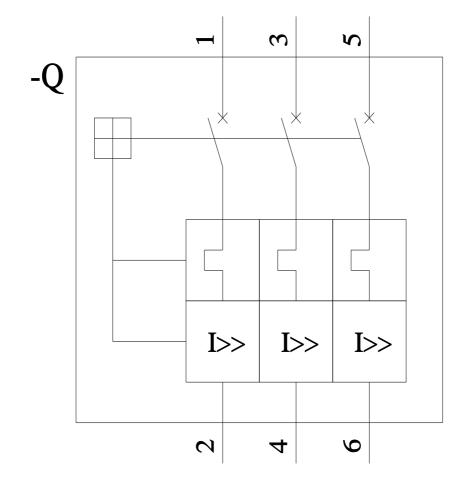
http://www.siemens.com/specifications

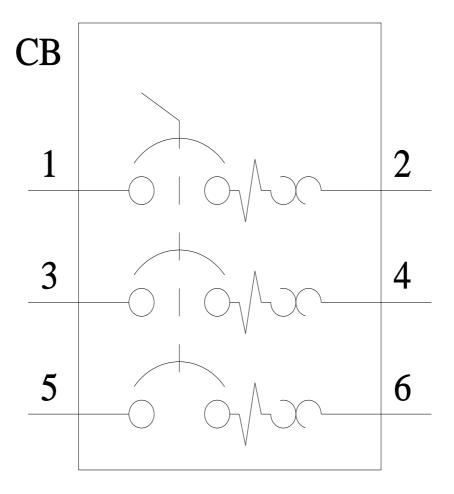












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