SIEMENS

Data sheet



circuit breaker 3VA5 UL frame 250 breaking capacity class C 100kA @ 480 V 4-pole, line protection TM230, FTAM, In=225A overload protection Ir=225A fixed short circuit protection li=5...10 x In neutral protection 1 w/o connection

Model	
product designation / according to UL file	CFAS
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	51 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	17.1 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
product function	
 communication function 	No
 other measurement function 	No
Net Weight	2800 g
Current	
marking / according to UL 489 / 100%-rated breaker	Yes
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
• at 70 °C	197 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	С
maximum short-circuit current breaking capacity (Icu)	

• at 240 V	200 kA
• at 240 V • at 415 V	110 kA
• at 415 V	10 kA
operating short-circuit current breaking capacity (Ics)	,
• at 240 V	200 kA
• at 415 V	110 kA
• at 690 V	10 kA
short-circuit current making capacity (Icm)	
• at 240 V	440 kA
• at 415 V	242 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	
current breaking capacity	
• at 240 V	200 kA
• at 480 V	100 kA
• at 600 V	35 kA
Adjustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
• minimum	225 A
• maximum	225 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	1 s
maximum	1 s
adjustable response value setting current (li) / for I-tripping	
• minimum	1 125 A
• maximum	2 250 A
adjustable absolute value setting current (InN) / for N-tripping	
• minimum	225 A
• maximum	225 A
design of the N-conductor protection	100%
product function / grounding protection Mechanical Design	No
· · · · · · · · · · · · · · · · · · ·	
product component • undervoltage release	No
voltage trigger	No
trip indicator	No
height [in]	7.28 in
height	185 mm
width [in]	5.51 in
width	140 mm
depth [in]	3.27 in
depth	83 mm
Connections	
arrangement of electrical connectors / for main current circuit	Without connection
type of electrical connection / for main current circuit	Without
design of the surface / of the connections / on the bottom of the	silver
switch (N, 2, 4, 6)	
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	<u>3VA52227GC412AA0</u>
Environmental conditions	10.00
protection class IP / on the front	IP40
ambient temperature	05.00
during operation / minimum	-25 °C

• during operation / maximum

• during storage / minimum

• during storage / maximum

70 °C -40 °C 80 °C

reference code / according to IEC 81346-2

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General Product Approval

Confirmation



Miscellaneous



Declaration of Conformity



Marine / Shipping

other



Miscellaneous

Confirmation

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,...)

Industry Mall (Online ordering system)

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5222-7GC41-2AA0

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

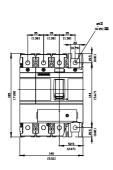
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5222-7GC41-2AA0

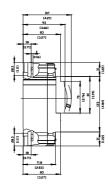
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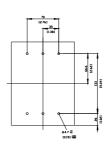
http://www.siemens.com/cax

Tender specifications

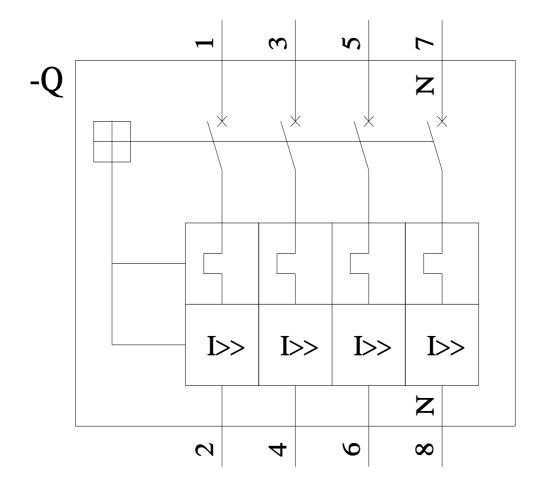
http://www.siemens.com/specifications

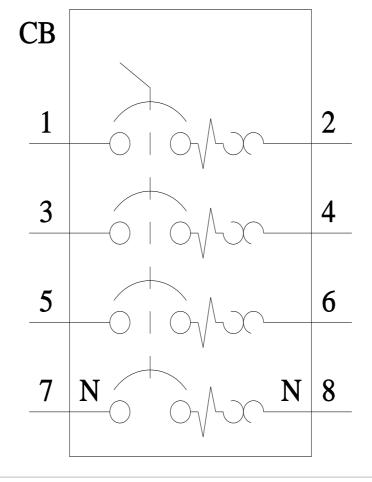












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