



circuit breaker 3VA5 UL frame 250 breaking capacity class H 65kA @ 480 V 4-pole, line protection TM210, FTFM, In=175A without overload protection Ir=175A fixed short circuit protection li=10 x In neutral protection 1 w/o connection

Model	
product designation / according to UL file	HFAS
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	TM210
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	35 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	11.7 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/retrofitable / 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	175 A
• at 45 °C	171 A
• at 50 °C	166 A
• at 55 °C	162 A
• at 60 °C	158 A
• at 65 °C	153 A
• at 70 °C	149 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	H
maximum short-circuit current breaking capacity (Icu)	

• at 240 V • at 415 V • at 690 V	100 kA 70 kA 10 kA
operating short-circuit current breaking capacity (Ics) • at 240 V • at 415 V • at 690 V	100 kA 70 kA 10 kA
short-circuit current making capacity (Icm) • at 240 V • at 415 V • at 690 V	220 kA 154 kA 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 • at 480 V • at 600 V	100 kA 65 kA 25 kA
--	--------------------------

Adjustable parameters

adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic • minimum • maximum	175 A 175 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic • minimum • maximum	1 s 1 s
adjustable response value setting current (Ii) / for I-tripping • minimum • maximum	1 750 A 1 750 A
adjustable absolute value setting current (InN) / for N-tripping • minimum • maximum	175 A 175 A
design of the N-conductor protection	100%
product function / grounding protection	No

Mechanical Design

product component • undervoltage release • voltage trigger • trip indicator	No No 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 switch (N, 2, 4, 6)	silver

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	3VA52176GD412AA0

Environmental conditions

protection class IP / on the front	IP40
ambient temperature • during operation / minimum	-25 °C

- 70 °C
-40 °C
80 °C

reference code / according to IEC 81346-2	Q
General Product Approval	Declaration of Conformity



EAC

UK
CA

CE
EG-Konf.

other



Confirmation

Siemens has decided to exit the Russian market (see here).
<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

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

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).

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

<http://www.siemens.com/lowvoltage/catalogs>

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA5217-6GD41-2AA0>

<https://support.industry.siemens.com/cs/ww/en/ps/3VA5217-6GD41-2AA0>

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5217-6GD41-2AA0

<http://www.siemens.com/cax>

<http://www.siemens.com/specifications>





