3VA5215-5EF31-2AA0

Data sheet



circuit breaker 3VA5 UL frame 250 breaking capacity class M 35kA @ 480 V 3-pole, line protection TM240, ATAM, In=150A without overload protection Ir=120A ...150A short circuit protection Ii=5...10 x In w/o connection

Model	
product designation / according to UL file	MFAS
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	TM240
protection function of the overcurrent release	LI
number of poles	3
General technical data	
insulation voltage / rated value	800 V
operating voltage / at DC / rated value	750 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	30 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	10 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	2 100 g
Current	
marking / according to UL 489 / 100%-rated breaker	Yes
operational current	
• at 40 °C	150 A
• at 45 °C	146 A
• at 50 °C	141 A
• at 55 °C	137 A
• at 60 °C	132 A
• at 65 °C	128 A
• at 70 °C	123 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	M
maximum short-circuit current breaking capacity (Icu)	

* al. 420 V		
# al 690 V operating short circuit current breaking capacity (tex) # al 415 V # al 415	• at 240 V	85 kA
operating short-circuit current breaking capacity (cs) • at 245 V • at 415 V • at 400 V • at 440 V • at 400 V		
### 2420 V ### 2415 V		7 kA
* at 890 Y * at 890 Y * short-direcust current making capacity (form) * at 240 V * at 415 V * at 415 V * at 690 Y * at 690	operating short-circuit current breaking capacity (lcs)	
a tip 60 V 167 KA 157 K	• at 240 V	85 kA
short-croul current making capacity (lcm) • 12 20 V • 14 15 V • 16 000 V 11 39 NA design of short-circuit protection For switching power values in DC networks, see the 3VA molded case circuit breaker device manual; first to be found under Service & Support in the last chapter Switching capacity according to UL 489 current breaking capacity • 12 40 V • 14 40 V • 14 60 V Adjustable parameters registable response value setting current (ir) / of the L-trip / with 12t characteristic current present response value delay time (ir) / for L-tripping / with 12t characteristic current present response value delay time (ir) / for L-tripping / with 12t characteristic current (in) / for N-tripping • ininimum • noximum • noximum • noximum • naximum • notice (in) / for N-tripping • ininimum • naximum • naximum • noximum • naximum • noximum • naximum • noximum • naximum • noximum • noximum • naximum • noximum • noxim	• at 415 V	55 kA
# # # # # # # # # # # # # # # # # # #	• at 690 V	7 kA
e 14 15 V 1990 V 11.9 kA 1990 V 11.9	short-circuit current making capacity (Icm)	
### 11.9 IAA ### design of short-circuit protection ### For switching power values in DC networks, see the 3VA molded case circuit be chapter Switching capacity according to UL 439 Current breaking capacity	• at 240 V	187 kA
design of short-circuit protection For exitiching operatives in ID. networks, see the 2NA moded case circuit breaking capacity according to UL 489 current breaking capacity 12 40	• at 415 V	121 kA
breaker device manual: link to be found under Service & Support in the last chapter: Switching capacity according to UL 489 current breaking capacity alt 240 V	• at 690 V	11.9 kA
Switching capacity according to UL 459 current breaking capacity • at 240 V • at 480 V • at 800 V Adjustable parameters adjustable parameters adjustable parameters inimium • maximum adjustable response value setting current (it/) of the L-trip / with L2t characteristic • minimum • maximum adjustable response value delay time (tr) / for L-tripping / with L2t characteristic • minimum • maximum 1 s adjustable response value setting current (iii) / for L-tripping / with L2t characteristic • minimum • maximum 1 s adjustable response value setting current (iii) / for L-tripping • minimum • maximum • maximum • maximum • maximum • maximum • maximum • mover for a for N-tripping • minimum • minimum • mover for N-tripping • minimum • no A Advantage release • vollage trigger • No • vollage trigger • Without connection Upp of electrical connectors / for main current circuit Without connection Upp of electrical connection / for main current circuit Without connection • of the supplied basis awich • of the supplied basis awich • Tothe fort on the fort ambient temperature • of the supplied basis awich • of the supplied basis swich • of the supplied basis awich • of the supplied basis swich • of the supplied basis swich • of the supplied basis swi	design of short-circuit protection	breaker device manual; link to be found under Service & Support in the last
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120 A 120		
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ambient temperature ◆ during operation / minimum -25 °C		
• during operation / minimum -25 °C	·	IP40
	•	
• during operation / maximum 70 °C	during operation / minimum	
	during operation / maximum	70 °C

during storage / minimumduring storage / maximum

-40 °C 80 °C

ortificatos

reference code / according to IEC 81346-2

Q

General Product Approval

Confirmation





Miscellaneous

EAC



Declaration of Con-

formity

Declaration of Conformity

Marine / Shipping

other







Miscellaneous

Confirmation

Further information

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)

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5215-5EF31-2AA0

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

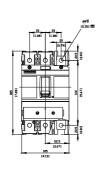
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5215-5EF31-2AA0

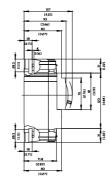
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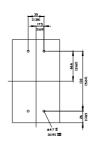
http://www.siemens.com/cax

Tender specifications

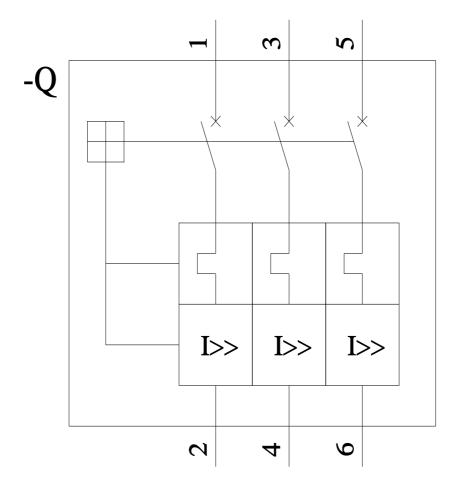
http://www.siemens.com/specifications

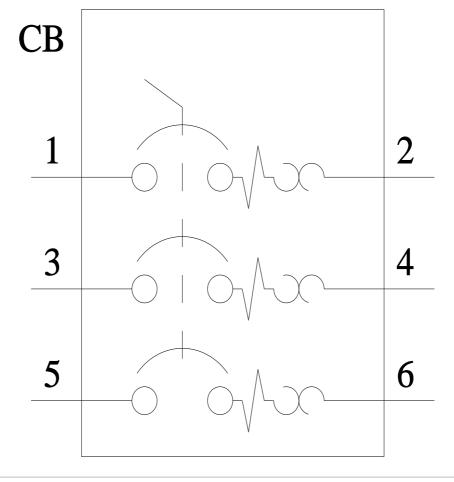












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