3VA5215-7EC31-1AA0

Data sheet



circuit breaker 3VA5 UL frame 250 breaking capacity class C 100kA @ 480V 3-pole, line protection TM230, FTAM, In=150A overload protection Ir=150A fixed short-circuit protection li=5...10 x In UL 489 SB (naval), 50° C without connection

product designation product designation According to UL file CFAM	Model	
product designation / according to UL file System protection design of the product System protection design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (HID Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) design of the overcurrent release protection function of the overcurrent release LI number of poles 3 Ceneral technical data operating voitage / at AC / rated value power loss [W] / for rated value of the current / at AC / in hot operating state / per pole mechanical service life (operating cycles) / typical electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at AC val / at 690 V electrical endurance (operating cycles) / at AC val / at 690 V electrical endurance (operating cycles) / at AC val / at 690 V electrical endurance (operating cycles) / at AC val / at 690 V electrical endurance (operating cycles) / at AC val / at 690 V electrical endurance (operating cycles) / at AC val / at 690 V electrical endurance (operating cycles) / at AC val / at 690 V electrical endurance (operating cycles) / at 600 V product feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload prof ground-fault monitoring version without marking / according to UL 489 / 100%-rated breaker operational current • at 40 °C • at 45 °C • at 45 °C • at 65 °C 150 A • at 65 °C 128 A	product brand name	SENTRON
design of the product design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (IBT Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) design of the voercurrent release protection function of the overcurrent release protection function for function for overcurrent release protection function for function for overcurrent release protection function for function for function for function functio	product designation	Molded-case circuit breaker
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) design of the load switch / according to UL 489 / High-Intensity-Discharge circuit breaker (HID Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) design of the overcurrent release TM230 protection function of the overcurrent release LI number of poles 3 Ceneral technical data operating voltage / at AC / rated value 699 V power loss [W] / maximum 30 W power loss [W] / maximum 30 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole mechanical service life (operating cycles) / typical 20 000 electrical endurance (operating cycles) / at AC-1 / at 380415 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 480 V 8 000 electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operat	product designation / according to UL file	CFAM
Conditioning, and Refrigeration circuit breaker (HACR Type) design of the load switch / according to UL 489 / High-Intensity- bischarge circuit breaker (HIDT Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) design of the overcurrent release protection function of the overcurrent release LL number of poles General technical data operating voltage / at AC / rated value opower loss [W] / maximum opower loss [W] / for rated value of the current / at AC / in hot operating state / per pole mechanical service life (operating cycles) / typical electrical endurance (operating cycles) / at AC-1 / at 380/415 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at 600 V electrical endurance (operating cycles) / at 600 V operational current on without **Operational current** marking / according to UL 489 / 100%-rated breaker operational current **at 40 °C **at 45 °C **une 45 °C **at 65 °C **141 A **at 65 °C **128 A	design of the product	System protection
Discharge circuit breaker (HID Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) design of the overcurrent release protection function of the overcurrent release protection function of the overcurrent release LLI number of poles 3 General technical data operating voltage / at AC / rated value power loss [W] / for rated value of the current / at AC / in hot operating state / per pole mechanical service life (operating cycles) / typical electrical endurance (operating cycles) / typical electrical endurance (operating cycles) / at AC-1 / at 380/415 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at AC-0 V electrical endurance (operating cycles) / at AC-0 V product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version without product function • communication function • other measurement function No Note Weight Current marking / according to UL 489 / 100%-rated breaker operational current • at 40 °C • at 45 °C • at 45 °C • at 65 °C 132 A • at 65 °C 132 A • at 65 °C 128 A		Yes
design of the overcurrent release protection function of the overcurrent release LI number of poles 3 General technical data operating voltage / at AC / rated value 690 V power loss [W] / for rated value of the current / at AC / in hot operating state / per pole mechanical service life (operating cycles) / typical 20 000 electrical endurance (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 AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 6 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 6 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 6 000 electrical endurance (operating cycles) / at AC-1 /		No
protection function of the overcurrent release UI number of poles 3 General technical data operating voltage / at AC / rated value power loss [W] / maximum power loss [W] / for rated value of the current / at AC / in hot operating state / per pole mechanical service life (operating cycles) / typical electrical endurance (operating cycles) / at AC-1 / at 380/415 V electrical endurance (operating cycles) / at AC-1 / at 380/415 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at 460 V electrical endurance (operating cycles) / at 460 V electrical endurance (operating cycles) / at 460 V electrical endurance (operating cycles) / at 600 V electrical endurance (operating cycles) / at 690 V electrical endurance (operating cycles) / at 600 V electrical endurance (o		No
Number of poles 3	design of the overcurrent release	TM230
Operating voltage / at AC / rated value 690 V	protection function of the overcurrent release	LI
Operating voltage / at AC / rated value 690 V	number of poles	3
Dower loss [W] / maximum 30 W	General technical data	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	operating voltage / at AC / rated value	690 V
operating state / per pole mechanical service life (operating cycles) / typical electrical endurance (operating cycles) / at AC-1 / at 380/415 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at 480 V electrical endurance (operating cycles) / at 690 V electrical endurance (operating cycles) / at 690 V product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version without product function o communication function No Net Weight 2 kg Current marking / according to UL 489 / 100%-rated breaker operational current • at 40 °C • at 45 °C • at 45 °C • at 50 °C 137 A • at 60 °C • at 65 °C 128 A	power loss [W] / maximum	30 W
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 ground-fault monitoring version without product function • communication function • other measurement function No Net Weight 2 kg Current marking / according to UL 489 / 100%-rated breaker operational current • at 40 °C • at 45 °C • at 45 °C • at 45 °C 146 A • at 50 °C 137 A • at 60 °C • at 65 °C 128 A		9.7 W
electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at 480 V electrical endurance (operating cycles) / at 600 V electrical endurance (operating cycles) / at 600 V product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version • communication function • other measurement function No Net Weight Current marking / according to UL 489 / 100%-rated breaker operational current • at 40 °C • at 45 °C • at 45 °C • at 45 °C • at 60 °C • at 60 °C • at 65 °C 128 A	mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at 480 V electrical endurance (operating cycles) / at 600 V product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version product function • communication function • other measurement function No Net Weight Current marking / according to UL 489 / 100%-rated breaker operational current • at 40 °C • at 45 °C • at 45 °C • at 50 °C 141 A • at 50 °C 137 A • at 60 °C • at 65 °C 128 A	electrical endurance (operating cycles) / at AC-1 / at 380/415 V	8 000
electrical endurance (operating cycles) / at 600 V product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version product function communication function nother measurement function Nothet Weight Current marking / according to UL 489 / 100%-rated breaker operational current at 40 °C at 45 °C at 45 °C at 45 °C at 45 °C at 60 °C at 60 °C at 65 °C 128 A	electrical endurance (operating cycles) / at AC-1 / at 690 V	4 000
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version without product function • communication function No • other measurement function No Net Weight 2 kg Current marking / according to UL 489 / 100%-rated breaker No operational current • at 40 °C 150 A • at 45 °C 146 A • at 50 °C 137 A • at 60 °C 132 A • at 65 °C 128 A	electrical endurance (operating cycles) / at 480 V	8 000
/ short-circuit and overload proof ground-fault monitoring version without product function	electrical endurance (operating cycles) / at 600 V	4 000
product function • communication function • other measurement function No Net Weight 2 kg Current marking / according to UL 489 / 100%-rated breaker operational current • at 40 °C • at 45 °C • at 50 °C • at 55 °C • at 60 °C • at 60 °C • at 65 °C 128 A		No
● communication function ● other measurement function No Net Weight Current marking / according to UL 489 / 100%-rated breaker operational current ● at 40 °C ● at 45 °C ● at 50 °C ● at 55 °C ● at 60 °C ● at 65 °C 128 A	ground-fault monitoring version	without
● other measurement function No Net Weight 2 kg Current marking / according to UL 489 / 100%-rated breaker operational current ● at 40 °C ● at 45 °C ● at 50 °C 141 A ● at 55 °C ● at 60 °C ● at 65 °C 128 A	product function	
Net Weight 2 kg Current marking / according to UL 489 / 100%-rated breaker No operational current 	 communication function 	No
Current marking / according to UL 489 / 100%-rated breaker No operational current 150 A • at 40 °C 146 A • at 50 °C 141 A • at 55 °C 137 A • at 60 °C 132 A • at 65 °C 128 A	 other measurement function 	No
marking / according to UL 489 / 100%-rated breaker No operational current 150 A • 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	Net Weight	2 kg
operational current • at 40 °C • at 45 °C • at 50 °C 141 A • at 55 °C 137 A • at 60 °C • at 65 °C 128 A	Current	
• at 40 °C • at 45 °C • at 50 °C • at 55 °C • at 60 °C • at 65 °C	marking / according to UL 489 / 100%-rated breaker	No
 at 45 °C at 50 °C 141 A at 55 °C 137 A at 60 °C at 65 °C 128 A 	operational current	
 at 50 °C at 55 °C 137 A at 60 °C at 65 °C 128 A 	• at 40 °C	150 A
 at 55 °C at 60 °C at 65 °C 137 A 132 A 128 A 	• at 45 °C	146 A
• at 60 °C 132 A • at 65 °C 128 A	• at 50 °C	141 A
• at 65 °C 128 A	• at 55 °C	137 A
	• at 60 °C	132 A
• at 70 °C 123 A	● at 65 °C	128 A
	● at 70 °C	123 A

switching capacity class of the circuit breaker	С
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
witching capacity according to UL 489	
current breaking capacity	
• at 240 V	200 kA
• at 480 V	100 kA
• at 600 V	35 kA
djustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
• minimum	150 A
maximum	150 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	1 s
maximum	1 s
adjustable response value setting current (Ii) / for I-tripping	
• minimum	750 A
• maximum	1 500 A
adjustable setting current (InN) / for N-tripping	
• minimum	0 A
• maximum	0 A
adjustable current response value current / of the current- dependent overload release	150 150 A
product function / grounding protection	No
echanical Design	
product component	
undervoltage release	No
 voltage trigger 	No
trip indicator	No
height [in]	7.28 in
height	185 mm
width [in]	4.13 in
width	105 mm
depth [in]	3.27 in
depth	83 mm
onnections	
arrangement of electrical connectors / for main current circuit	Without connection
type of electrical connection / for main current circuit	Without
uxiliary circuit	
number of CO contacts / for auxiliary contacts	0
ccessories	
product extension / optional / motor drive	Yes
nvironmental conditions	
protection class IP / on the front	IP40
ambient temperature	25 00
ambient temperature	
during operation / minimum	-25 °C
during operation / minimumduring operation / maximum	70 °C
during operation / minimumduring operation / maximumduring storage / minimum	70 °C -40 °C
 during operation / minimum during operation / maximum during storage / minimum during storage / maximum 	70 °C
during operation / minimumduring operation / maximumduring storage / minimum	70 °C -40 °C



Confirmation





Miscellaneous



Declaration of Conformity

Marine / Shipping

other









Confirmation

Miscellaneous

other

Miscellaneous

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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA5215-7EC31-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5215-7EC31-1AA0

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

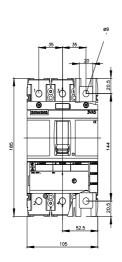
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5215-7EC31-1AA0

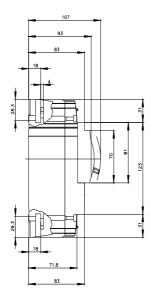
CAx-Online-Generator

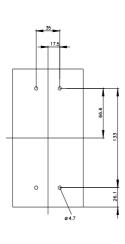
http://www.siemens.com/cax

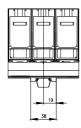
Tender specifications

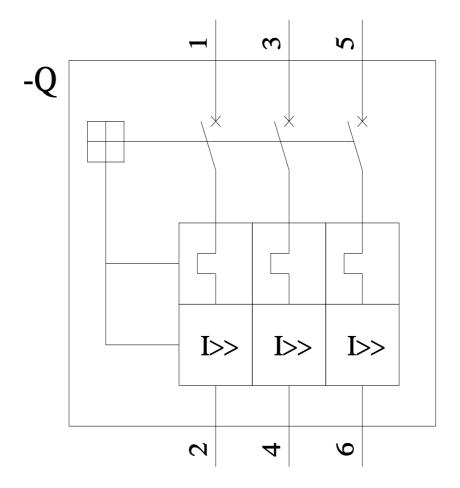
http://www.siemens.com/specifications

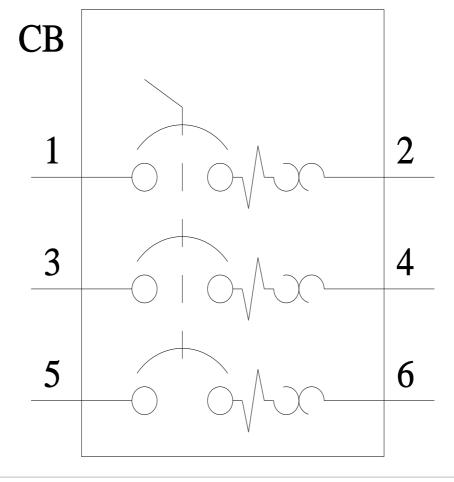












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Authorized Distributor

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3VA52157EC311AA0