3VA5135-6EC32-1AA0

Data sheet



circuit breaker 3VA5 UL frame 125 breaking capacity class H 65kA @ 480 V 3-pole, line protection TM230, FTAM, In=35A overload protection Ir=35A fixed short-circuit protection li=5...10 x In UL489 SB (naval), 50 deg. cel. nut keeper kit on both sides

product designation product designation According to UL file HEAM Molded-case circuit breaker Product designation According to UL file HEAM HEAM HEAM Molded-case circuit breaker Molded-case Molded-cas	Model			
product designation / according to UL file design of the product 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 (HID Type) design of the load switch / according to UL 489 / Switching Duty 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 ILI number of poles 3 Ceneral technical data operating voitage / 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 electrical endurance (operating cycles) / at AC-1 / at 380/415 V electrical endurance (operating cycles) / at AC V electrical endurance (operating cycles) / at AB V electrical endur	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 of the overcurrent release ILI 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 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 9 000 electrical endurance (operating cycles) / at 480 V 9 000 electrical endurance (operating cycles) / at 480 V 9 000 electrical endurance (operating cycles) / at 480 V 9 000 electrical endurance (operating cycles) / at 480 V 9 000 electrical endurance (operating cycles) / at 480 V 9 000 electrical endurance (operating cycles) / at 480 V 9 000 electrical endurance (operating cycles) / at 480 V 9 000 ground-fault monitoring version vilthout volume resource for neutral conductors / upgradable/retrofittable for the measurement function No No No Net Weight 0 .951 kg 0 .55 A at 45 °C at 45 °C 35 A at 45 °C at 46 °C 35 A at 65 °C 33 A at 66 °C 32 A	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 ILI number of poles 3 General technical cata operating voltage / at AC / rated value power loss [W] / maximum 11.4 W 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 380415 V electrical endurance (operating cycles) / at 480 V	product designation / according to UL file	HEAM		
Conditioning, and Refrigeration circuit breaker (HACR Type) design of the load switch / according to UL 489 / High-Intensity- bischarge circuit breaker (HHDT 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 General technical data operating voltage / at AC / rated value opwer loss [W] / maximum 11.4 W opwer 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 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 60 V electr	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 LI 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 890 V electrical endurance (operating cycles) / at ABO V electrical endurance (operating cycles) / at ABO V electrical endurance (operating cycles) / at ABO 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 No No No No No Operational current • at 40 °C • at 45 °C • at 45 °C • at 65 °C 32 A		Yes		
design of the overcurrent release TM230 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 600 V 4 000 electrical endurance (operating cycles) / at 600 V 4 000 electrical endurance (operating cycles) / at 600 V 4 000 product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof proof ground-fault monitoring version without product function • communication function No Note t Weight 0.951 kg Current marking / according to UL 489 / 100%-rated breaker No operational current • at 40 °C 35 A • at 50 °C 34 A • at 55 °C 34 A • at 55 °C 33 A • at 60 °C 33 A • at 60 °C 33 A		Yes		
protection function of the overcurrent release LI 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) / 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 600 V electrical endurance (operating cycles) / at 600 V electrical endurance (operating cycles) / at 600 V for outcome feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version without product function o communication function No No other measurement function No No Not Weight Current arking / according to UL 489 / 100%-rated breaker operational current • at 40 °C at 45 °C at 55 °C 33 A at 60 °C 33 A		No		
Number of poles 3	design of the overcurrent release	TM230		
Ceneral technical data	protection function of the overcurrent release	LI		
operating voltage / at AC / rated value 690 V power loss [W] / maximum 11.4 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 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 600 V 4 000 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 Current marking / according to UL 489 / 100%-rated breaker operational current • at 40 °C • at 45 °C • at 45 °C • at 45 °C • at 55 °C • at 60 °C • at 65 °C	number of poles	3		
Dower loss [W] / maximum	General technical data			
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 690 V electrical endurance (operating cycles) / at AC-0 / at 690 V electrical endurance (operating cycles) / at AC-0 / at 690 V electrical endurance (operating cycles) / at 800 V electrical endurance (operating cycles) / at 800 V electrical endurance (operating cycles) / at 600 V product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version without product function • communication function No Net Weight 0.951 kg 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 50 °C 33 A • at 60 °C • at 60 °C 33 A • at 60 °C 32 A	operating voltage / at AC / rated value	690 V		
operating state / per pole 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 690 V 4 000 product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version without product function No • other measurement function No Net Weight 0.951 kg Current marking / according to UL 489 / 100%-rated breaker No operational current • at 40 °C 35 A • at 45 °C 34 A • at 55 °C 33 A • at 60 °C 33 A • at 60 °C 33 A • at 65 °C 32 A	power loss [W] / maximum	11.4 W		
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 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 without 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 60 °C • at 60 °C • at 65 °C 32 A		3.8 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 • at 40 °C • at 45 °C • at 45 °C • at 45 °C • at 55 °C • at 60 °C • at 60 °C • at 65 °C at 60 °C at 65 °C	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 • at 40 °C • at 45 °C • at 45 °C • at 55 °C • at 65 °C 33 A • at 60 °C • at 65 °C 32 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 66 °C at 65 °C	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 0.951 kg Current marking / according to UL 489 / 100%-rated breaker No operational current • at 40 °C 35 A • at 45 °C 34 A • at 50 °C 34 A • at 55 °C 33 A • at 60 °C 33 A • at 65 °C 32 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 Outent 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 32 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 32 A	ground-fault monitoring version	without		
● other measurement function No Net Weight 0.951 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 65 °C 32 A	product function			
Net Weight 0.951 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 35 A • at 40 °C 35 A • at 45 °C 34 A • at 50 °C 34 A • at 55 °C 33 A • at 60 °C 33 A • at 65 °C 32 A	other measurement function	No		
marking / according to UL 489 / 100%-rated breaker No operational current 35 A • at 40 °C 35 A • at 45 °C 34 A • at 50 °C 34 A • at 55 °C 33 A • at 60 °C 33 A • at 65 °C 32 A	Net Weight	0.951 kg		
operational current • at 40 °C • at 45 °C • at 50 °C • at 55 °C • at 60 °C • at 65 °C 32 A	Current			
 at 40 °C at 45 °C at 50 °C at 55 °C at 60 °C at 65 °C 32 A 	marking / according to UL 489 / 100%-rated breaker	No		
 at 45 °C at 50 °C at 55 °C at 60 °C at 60 °C at 65 °C 32 A 	operational current			
 at 50 °C at 55 °C at 60 °C at 65 °C 33 A 33 A 34 A 33 A 33 A 32 A 	• at 40 °C	35 A		
 at 55 °C at 60 °C at 65 °C 33 A 32 A 	• at 45 °C	34 A		
• at 60 °C 33 A • at 65 °C 32 A	• at 50 °C	34 A		
• at 65 °C 32 A	• at 55 °C	33 A		
	• at 60 °C	33 A		
• at 70 °C 32 A	• at 65 °C	32 A		
	● at 70 °C	32 A		

Switching capacity according to IEC 60947				
switching capacity class of the circuit breaker	Н			
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	150 kA			
• at 480 V	65 kA			
• at 600 Y/347 V	25 kA			
Adjustable parameters	23 KA		_	
adjustable response value setting current (Ir) / of the L-trip / with				
12t characteristic				
• minimum	35 A			
maximum adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	35 A			
• minimum	1 s			
maximum	1 s			
adjustable response value setting current (li) / for I-tripping				
• minimum	175 A			
maximum	350 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	35 35 A			
product function / grounding protection	No			
Mechanical Design				
product component				
undervoltage release	No			
voltage trigger	No			
• trip indicator	No			
height [in]	5.51 in			
height	140 mm			
width [in]	3 in			
width	76.2 mm			
depth [in]	3.01 in			
depth	76.5 mm			
Connections	70.5 11111			
	Front connection			
arrangement of electrical connectors / for main current circuit				
type of electrical connection / for main current circuit type of connectable conductor cross-sections / for flat-bar terminal connection / minimum	nut keeper kit on both ends 12 x 1 mm			
type of connectable conductor cross-sections / for flat-bar terminal connection / maximum	17 x 6.5 mm			
Auxiliary circuit				
number of CO contacts / for auxiliary contacts	0			
Accessories				
product extension / optional / motor drive	Yes			
Environmental conditions				
protection class IP / on the front	IP40			
ambient temperature				
 during operation / minimum 	-25 °C			
during operation / maximum	70 °C			
during storage / minimum	-40 °C			
during storage / maximum	80 °C			
Certificates				
certificate of suitability / as approval for NAVAL (no combat	Yes			
vessels) / supplement SB				
General Product Approval		EMC	Test Certificates	







Marine / Shipping

other



Confirmation

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)

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5135-6EC32-1AA0

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

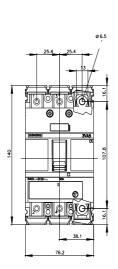
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5135-6EC32-1AA0

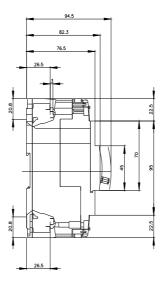
CAx-Online-Generator

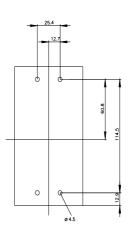
http://www.siemens.com/cax

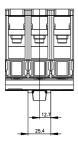
Tender specifications

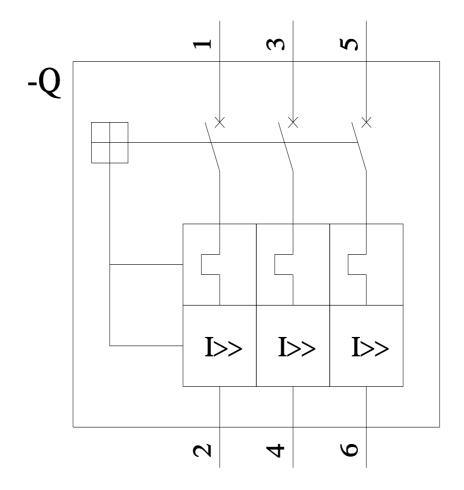
http://www.siemens.com/specifications

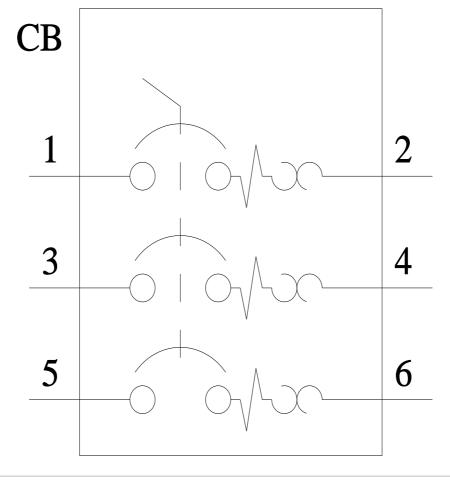












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Authorized Distributor

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Siemens:

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