3VA5190-4ED11-1AA0

Data sheet



circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 277V 1-pole, line protection TM210, FTFM, In=90A overload protection Ir=90A fixed short-circuit protection Ii=10 x In UL 489 SB (naval), 50° C without connection

product designation Molded-case circuit breaker product designation / according to UL file SEAM System protection design of the product System protection 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 TM210 protection function of the overcurrent release LI number of poles 1 Ceneral technical data operating voltage / at AC / rated value 415 V power loss [W] / maximum 7.13 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole mechanical service life (operating cycles) / it AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / at AC-1 / at 69 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 ground-fault monitoring version Without No e communication function No e communication function No No	Model	
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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 number of poles 1 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 690 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 • communication function No		Yes
design of the overcurrent release TM210 protection function of the overcurrent release LI number of poles 1 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 690 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 • communication function No		No
protection function of the overcurrent release II number of poles 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 AO-1 / at 690 V 4 000 electrical endurance (operating cycles) / at AO-1 / at 690 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 • communication function No		No
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operating voltage / at AC / rated value 415 V power loss [W] / maximum 7.13 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 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 No	protection function of the overcurrent release	Ш
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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 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 o communication function No	General technical data	
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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 600 V 4 000 product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version without product function No	power loss [W] / maximum	7.13 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 600 V product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version output without without product function output No No		7.13 W
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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 or communication function 8 000 No without No No	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 No	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	electrical endurance (operating cycles) / at 480 V	8 000
/ short-circuit and overload proof ground-fault monitoring version without product function communication function No	electrical endurance (operating cycles) / at 600 V	4 000
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• communication function No	ground-fault monitoring version	without
	product function	
a other magaurament function	 communication function 	No
• Other measurement function NO	 other measurement function 	No
Net Weight 0.38 kg	Net Weight	0.38 kg
Current	Current	
marking / according to UL 489 / 100%-rated breaker No	marking / according to UL 489 / 100%-rated breaker	No
operational current	operational current	
• at 40 °C 90 A	• at 40 °C	90 A
• at 45 °C 88 A	• at 45 °C	88 A
• at 50 °C 86 A	• at 50 °C	86 A
• at 55 °C 84 A	● at 55 °C	84 A
• at 60 °C 82 A	• at 60 °C	82 A
• at 65 °C 80 A	• at 65 °C	80 A
• at 70 °C 79 A	• at 70 °C	79 A

Pers switching power values in DC networks, see the 2NA modered case circuit breaking capacity	switching capacity class of the circuit breaker	S
current breaking capacity at 120 V at 347 V at 347 V bulgstable parameters adjustable response value setting current (ir) / of the L-trip / with 12th characteristic v minimum meximum maximum maximum maximum maximum minimum m	design of short-circuit protection	
** at 120 V ** at 277 V 25 kA	Switching capacity according to UL 489	
• at 277 V • at 347 V	current breaking capacity	
* al 347 V * al 4 kA	● at 120 V	65 kA
Adjustable parameters	● at 277 V	25 kA
adjustable response value setting current (Ir) / of the L-trip / with 12t characteristic • minimum • maximum adjustable response value delay time (tr) / for L-tripping / with 12t characteristic • minimum • maximum adjustable response value setting current (II) / for I-tripping / with 12t characteristic • minimum • maximum • minimum • during operation / minimum • during operation / minimum • during operation / maximum • during operation / minimum • during storage / minimum •	● at 347 V	14 kA
adjustable response value setting current (Ir) / of the L-trip / with 12t characteristic • minimum • maximum adjustable response value delay time (tr) / for L-tripping / with 12t characteristic • minimum • maximum adjustable response value setting current (II) / for I-tripping / with 12t characteristic • minimum • maximum • minimum • during operation / minimum • during operation / minimum • during operation / maximum • during operation / minimum • during storage / minimum •	Adjustable parameters	
maximum adjustable response value delay time (tr) / for L-tripping / with 12t characteristic minimum maximum adjustable response value setting current (ii) / for I-tripping minimum maximum adjustable response value setting current (iii) / for I-tripping minimum maximum adjustable setting current (inN) / for N-tripping minimum maximum adjustable setting current (inN) / for N-tripping minimum maximum adjustable current response value current / of the current-dependent overload release product function / grounding protection No Adjustable current response value current / of the current-dependent overload release product function / grounding protection No Adjustable current response value current / of the current-dependent overload release ### Vision of Component ### Undervoltage release ### Vision of Component ### Undervoltage release ### Vision of Component ### Undervoltage release ### Vision of Component ### Undervoltage release ### Vision of Component ### Undervoltage release ### Vision of Component ### Undervoltage release ### Vision of Component ### Undervoltage release ### Vision of Component ### Undervoltage release ### Vision of Component ### Undervoltage release ### Vision of Component ### Undervoltage release ### Vision of Component ### Undervoltage release ### Vision of Component ### Undervoltage release ### Vision of Component ### Undervoltage release ### Vision of Component ### Undervoltage release ### Under	adjustable response value setting current (Ir) / of the L-trip / with	
adjustable response value delay time (tr) / for L-tripping / with 12 characteristic	• minimum	90 A
characteristic • minimum • maximum adjustable response value setting current (ii) / for I-tripping • minimum • undervoltage current / of the current-dependent overlader delease • voltage trigger • minimum • undervoltage release • voltage trigger • minimum • trip indicator •	• maximum	90 A
adjustable response value setting current (ii) / for I-tripping		
adjustable response value setting current (iii) / for I-tripping	• minimum	1 s
• minimum • maximum • maximum adjustable setting current (InN) / for N-tripping • minimum • maximum adjustable current response value current / of the current- dependent overload release product function / grounding protection **Cechanical Design** **Outlage trigger** • Irip indicator • Irip indicator height [in] • Irip indicator **Moth Irip Irip Irip Irip Irip Irip Irip Irip	• maximum	1s
maximum 900 A adjustable setting current (InN) / for N-tripping minimum 0 A maximum 0 A adjustable current response value current / of the current- dependent overload releases product function / grounding protection No Inchanical Design product component undervoltage release No voltage trigger No voltage trigger No in principal Inn in pri	adjustable response value setting current (li) / for I-tripping	
adjustable setting current (InN) / for N-tripping infinimum maximum 0 A adjustable current response value current / of the current- dependent overload release product function / grounding protection No Mechanical Design product component undervoltage release No voltage trigger No itrip indicator No height [in] S.5.1 in height 11 in width 25.4 mm depth [in] 3.01 in depth [in] 3.01 in depth 76.5 mm Connections arrangement of electrical connectors / for main current circuit Without connection type of electrical connection / for main current circuit Without connection type of electrical connection / for auxiliary contacts product extension / optional / motor drive protection class IP / on the front IP40 ambient temperature during operation / maximum during storage / minimum during storage / maximum Pres certificate of suitability / as approval for NAVAL (no combat Yes certificate of suitability / as approval for NAVAL (no combat Yes	• minimum	900 A
• minimum • maximum 0 A dijustable current response value current / of the current- dependent overload release product function / grounding protection	• maximum	900 A
maximum 0 A adjustable current response value current / of the current- dependent overload release product function / grounding protection Mochanical Design product component	adjustable setting current (InN) / for N-tripping	
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adjustable current response value current / of the current- dependent overload release product function / grounding protection No fechanical Design product component • undervoltage release • voltage trigger • trip indicator No height [in] stiff in] height 140 mm width [in] 1 in depth 25.4 mm depth [in] 3.01 in depth 76.5 mm connections arrangement of electrical connectors / for main current circuit Without connection type of electrical connection / for main current circuit Without vickliary circuit number of CO contacts / for auxiliary contacts 0 convertion class IP / on the front 1P40 ambient temperature • during operation / maximum 25 °C • during operation / maximum 70 °C • during storage / maximum 70 °C • during storage / maximum 80 °C certificate of suitability / as approval for NAVAL (no combat Yes	maximum	0 A
product component undervoltage release voltage trigger vip indicator height [in] height lin] height lin] height lin] height lin] depth [in] leght lin] depth [in] leght lin] depth [in] leght lin] leght leght lin] leght leght lin] leght leght leght lin] leght leght leght leght lin] leght leght leght leght lin] leght leg	adjustable current response value current / of the current-	90 90 A
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• undervoltage release • voltage trigger • trip indicator No height [in] 5.51 in height height width in] 1 in width 25.4 mm depth [in] 3.01 in depth connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit wultilary circuit number of CO contacts / for auxiliary contacts product extension / optional / motor drive normonatal conditions protection class IP / on the front ambient temperature • during operation / maximum • during storage / minimum • during storage / maximum • during	Mechanical Design	
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voltage trigger	•	No
• trip indicator No height [in] 5.51 in height 140 mm width [in] 1 in width 25.4 mm depth [in] 3.01 in depth [in] 3.01 in depth [in] 4.5 mm connections arrangement of electrical connectors / for main current circuit Without connection type of electrical connection / for main current circuit Without wixiliary circuit number of CO contacts / for auxiliary contacts 0 coccessories product extension / optional / motor drive No invironmental conditions protection class IP / on the front IP40 ambient temperature	-	No
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type of electrical connection / for main current circuit Auxiliary circuit number of CO contacts / for auxiliary contacts product extension / optional / motor drive No Environmental conditions protection class IP / on the front ambient temperature oluring operation / minimum during operation / maximum oluring storage / minimum oluring storage / maximum oluri		
number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive No Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum -25 °C • during storage / minimum -40 °C • during storage / maximum 80 °C Certificates certificate of suitability / as approval for NAVAL (no combat Yes		
number of CO contacts / for auxiliary contacts Coccessories	•	Without
product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum • curing storage / maximum • during storage / maximum • during storage / maximum • during storage / maximum Errificates certificate of suitability / as approval for NAVAL (no combat Yes		
product extension / optional / motor drive No Provironmental conditions protection class IP / on the front ambient temperature • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum 80 °C Pertificates certificate of suitability / as approval for NAVAL (no combat No IP40 -25 °C -20 °C -40 °C	number of CO contacts / for auxiliary contacts	0
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 Sertificates certificate of suitability / as approval for NAVAL (no combat Yes	Accessories	
protection class IP / on the front ambient temperature • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum • curing storage / maximum • during storage / maximum • during storage / maximum So °C Certificates certificate of suitability / as approval for NAVAL (no combat Yes	· · · · · · · · · · · · · · · · · · ·	No
ambient temperature • during operation / minimum • during operation / maximum 70 °C • during storage / minimum • during storage / maximum 80 °C Certificates certificate of suitability / as approval for NAVAL (no combat Yes	Environmental conditions	
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• during operation / maximum • during storage / minimum • during storage / maximum • during storage / maximum 80 °C Certificates certificate of suitability / as approval for NAVAL (no combat Yes	ambient temperature	
• during storage / minimum • during storage / maximum 80 °C Certificates certificate of suitability / as approval for NAVAL (no combat Yes	during operation / minimum	-25 °C
during storage / maximum 80 °C Certificates certificate of suitability / as approval for NAVAL (no combat Yes	during operation / maximum	70 °C
• during storage / maximum 80 °C Certificates certificate of suitability / as approval for NAVAL (no combat Yes		-40 °C
Certificates certificate of suitability / as approval for NAVAL (no combat Yes		80 °C
certificate of suitability / as approval for NAVAL (no combat		
,		



Confirmation







Miscellaneous

General Product Approval

EMC

Declaration of Conformity

Test Certificates

Marine / Shipping









Type Test Certificates/Test Report



Marine / Shipping

other









Miscellaneous

Confirmation

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=3VA5190-4ED11-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5190-4ED11-1AA0

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

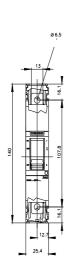
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5190-4ED11-1AA0

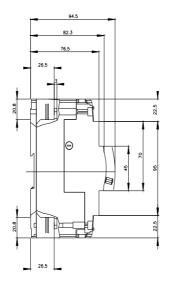
CAx-Online-Generator

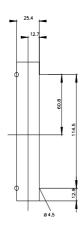
http://www.siemens.com/cax

Tender specifications

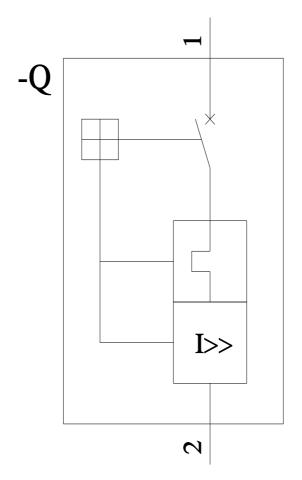
http://www.siemens.com/specifications

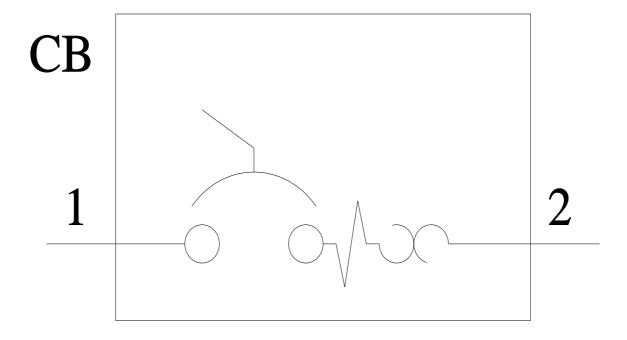












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