3VA5190-5EC36-1AA0

Data sheet



circuit breaker 3VA5 UL frame 125 breaking capacity class M 35kA @ 480 V 3-pole, line protection TM230, FTAM, In=90A overload protection Ir=90A fixed short-circuit protection Ii=5...10 x In UL489 SB (naval), 50 deg. cel. cable connection on both sides

product brand name product designation / according to UL file MEAM design of the product designation / 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 (HO Type) design of the load switch / according to UL 489 / High-intensity- Discharge circuit breaker (HO Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (RIO Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (RIO Type) design of the overcurrent release protection function of the overcurrent release protection function description of the overcurrent release protection function of the overcurrent release protection function of the overcurrent release protection function of the overcurrent release protection function of the overcurrent release protection function function electrical endurance (operating cycles) / 14 AC / 1 A G /	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- bischarge 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 Contral 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) / 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 AB OV electrical endurance (operating cyc	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 (IBVD 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 TM230 protection function of the overcurrent release ILI number of poles 3 General technical data operating voltage / at AC / rated value opower loss [W] / maximum 21.4 W 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 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 9 000 electrical endurance (operating cycles) / at 480 V No sproduct feature / for neutral conductors / upgradable/retrofittable yeshort-circuit and overload proof ground-fault monitoring version without product function • communication function • communication function No No Net Weight Current marking / according to UL 489 / 100%-rated breaker operational current • at 40 °C 90 A 84 A 84 A 85 C 86 A 88 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 data operating voltage / at AC / rated value power loss [W] / maximum 21.4 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	MEAM
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 LL number of poles General technical data operating voltage / at AC / rated value opwer 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 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 en	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 Ceneral 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 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 No Operational current • at 40 °C • at 45 °C • at 65 °C • at 65 °C • at 65 °C • at 65 °C • at 65 °C • at 65 °C • at 65 °C • at 65 °C • at 65 °C • at 65 °C • at 65 °C • at 65 °C • at 65 °C • at 65 °C • at 65 °C • at 65 °C • at 65 °C • at 65 °C		Yes
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 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 5 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 5 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 5 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 5 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 5 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 5 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 5 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 5 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 5 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 5 000 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 / 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 / at 690 V 6 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 6 000 electrical endurance (operating cycles) / at A		No
protection function of the overcurrent release		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 21.4 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 7.13 W operating state / per pole 20000 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 No e other measurement function No Net Weight 0.951 kg Current marking / according to UL 489 / 100%-rated breaker No operational current e at 40 °C 90 A e at 45 °C 86 A e at 50 °C 86 A e at 55 °C 84 A e at 60 °C 82 A e at 60 °C 82 A e at 60 °C 80 A	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 O.951 kg Current marking / according to UL 489 / 100%-rated breaker operational current • at 40 °C • at 45 °C • at 45 °C • at 50 °C 88 A • at 50 °C 84 A • at 60 °C • at 65 °C 80 A	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 AC-1 / at 690 V electrical endurance (operating cycles) / at 480 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 • communication function • other measurement function No Net Weight O.951 kg Current marking / according to UL 489 / 100%-rated breaker operational current • at 40 °C • at 45 °C • at 50 °C 88 A • at 55 °C 84 A • at 60 °C • at 65 °C 80 A	power loss [W] / maximum	21.4 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 45 °C • at 55 °C • at 45 °C • at 60 °C • at 65 °C 80 A		7.13 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 55 °C • at 60 °C • at 65 °C 80 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 ocommunication function No No Net Weight Current marking / according to UL 489 / 100%-rated breaker operational current o at 40 °C other measurement other at 45 °C other at 60 °C other at 65 °C other at 65 °C other at 60 °C other at 65 °C other at 60 °C other at 65 °C other at 60 °C other at 65 °C other at 60 °C other at 65 °C	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 65 °C at 66 °C at 65 °C at 65 °C at 65 °C by A 000 No No No No No No No No 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 • other measurement function No Net Weight 0.951 kg Current marking / according to UL 489 / 100%-rated breaker No operational current • at 40 °C 90 A • at 45 °C 88 A • at 50 °C 86 A • at 55 °C 84 A • at 60 °C 82 A • at 65 °C 80 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 Outerent 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 80 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 No No No 90 A 82 A ● at 65 °C 80 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 ■ 80 A	product function	
Net Weight 0.951 kg Current marking / according to UL 489 / 100%-rated breaker No operational current 90 A • at 40 °C 90 A • at 45 °C 88 A • at 50 °C 86 A • at 55 °C 84 A • at 60 °C 82 A • at 65 °C 80 A	• communication function	No
Current marking / according to UL 489 / 100%-rated breaker No operational current 90 A • at 40 °C 90 A • at 45 °C 88 A • at 50 °C 86 A • at 55 °C 84 A • at 60 °C 82 A • at 65 °C 80 A	other measurement function	No
marking / according to UL 489 / 100%-rated breaker No operational current 90 A • at 40 °C 90 A • at 45 °C 88 A • at 50 °C 86 A • at 55 °C 84 A • at 60 °C 82 A • at 65 °C 80 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 • at 65 °C • at 65 °C	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 at 55 °C at 60 °C at 65 °C 88 A 86 A 84 A 82 A at 65 °C 80 A 	operational current	
 at 50 °C at 55 °C at 60 °C at 65 °C 80 A 	• at 40 °C	90 A
 at 55 °C at 60 °C at 65 °C 84 A 82 A 80 A 	• at 45 °C	88 A
• at 60 °C 82 A • at 65 °C 80 A	● at 50 °C	86 A
• at 65 °C 80 A	● at 55 °C	84 A
	• at 60 °C	82 A
2 of 70 °C	• at 65 °C	80 A
• at 10 C	● at 70 °C	79 A

design of short-circuit protection design of short-circuit protection for switching power values in ID. Retworks, see the 3VA moided cause circuit breaker device manual; link to be found under Service & Support in the last chalopter Stricthing capacity according to UL 498 Current breaking capacity according to UL 490 at 240 V	Switching capacity according to IEC 60947	
Switching capacity according to UL 489 Current breaking capacity	switching capacity class of the circuit breaker	M
current breaking capacity • at 260 V 35 kA • at 480 V 35 kA * at 480 V 45 kB 48 * addouble response value setting current (i/) / of the Lirip / with IZC characteristic • innimum 90 A adjustable response value delay time (it) / for L-tripping / with IZC characteristic • minimum 15 kB 45	design of short-circuit protection	breaker device manual; link to be found under Service & Support in the last
e 12 4/0 V	Switching capacity according to UL 489	
e at 480 V	current breaking capacity	
Adjustable response value setting current (ir) / of the L-tir) / with 12t characteristic - iminimum - maximum - during storage / maximum - d	• at 240 V	85 kA
Adjustable parameters adjustable response value setting current (ir) / of the L-trip / with 12t characteristic in minimum 90 A adjustable response value delay time (tr) / for L-tripping / with 12t characteristic in minimum 1s adjustable response value setting current (iii) / for L-tripping / with 12t characteristic in minimum 1s adjustable response value setting current (iii) / for I-tripping in minimum 900 A adjustable response value setting current (iii) / for I-tripping in minimum 0A adjustable response value setting current (iii) / for I-tripping in minimum 0A adjustable setting current (inN) / for N-tripping in minimum 0A adjustable setting current (inN) / for N-tripping in minimum 0A adjustable current response value current / of the current- depandent overlead release product function / grounding protection No No No No No No No No No	• at 480 V	35 kA
adjustable response value setting current (ir) / of the L-trip / with 2t characteristic maximum 90 A 90 A	• at 600 Y/347 V	18 kA
Izi characteristic iminimum maximum adjustable response value delay time (tr) / for L-tripping / with 12t characteristic iminimum imaximum adjustable response value setting current (ti) / for I-tripping iminimum iminim	Adjustable parameters	
- minimum		
maximum 1s and purchase value delay time (tr) / for L-tripping / with 12t cheracteristic minimum 1s a		90 A
adjustable response value delay time (tr) / for L-tripping / with 12t of maximum maximum maximum maximum adjustable response value setting current (ii) / for I-tripping maximum maxim maximum maximum maximum maximum maximum maximum maximum maximum		
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maximum adjustable response value setting current (II) / for I-tripping minimum maximum maxim		1 s
adjustable response value setting current (ii) / for l-tripping		
minimum adjustable setting current (InN) / for N-tripping minimum adjustable setting current (InN) / for N-tripping minimum adjustable current response value current / of the current-dependent overload release product function / grounding protection Mochanical Dosign product component undervoltage release voltage trigger No trip indicator No height [in] height [in] height 140 mm width [in] height 23 in height [in] height 33 in height [in] height [in] height 76.2 mm depth [in] depth 76.5 mm Connectable conductor cross-sections / of the round conductor terminal / stranded width 76.5 mm Connectable conductor / for main current circuit forms connection of the connecti		. •
maximum adjustable setting current (InN) / for N-tripping minimum		450 A
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 Mechanical Design product component		
product function / grounding protection Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] sight 140 mm width [in] yep of connectable conductor cross-sections / of the round conductor terminal / stranded width 76.2 mm depth [in] depth 3.01 in depth 76.5 mm Connections arrangement of electrical connectors / for main current circuit vicye of electrical connection / for main current circuit oricular conductor terminal on both sides Auxillary circuit number of CO contacts / for auxilliary contacts product extension / optional / motor drive Protection class IP / on the front IP40 ambient temperature • during operation / minimum • during storage / maximum Certificates certificates certificates certificates certificates conductor terminal on both sides Yes	adjustable current response value current / of the current-	
product component undervoltage release voltage trigger No trip indicator No height [in] height 140 mm width [in] 1ype of connectable conductor cross-sections / of the round conductor terminal / stranded width in] 3 in 1ype of connectable conductor cross-sections / of the round conductor terminal / stranded width 76.2 mm depth [in] 3.01 in depth 76.5 mm Connections arrangement of electrical connectors / for main current circuit pype of electrical connection / for main current circuit circular conductor terminal on both sides Auxiliary circuit number of CO contacts / for auxiliary contacts 0 Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front eduring operation / maximum of uring storage / minimum of uring storage / minimum of uring storage / maximum of uring storage / maximum of continuation (supplement SB) Yes	·	No
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Auxiliary circuit number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum -25 °C • during operation / maximum oduring storage / minimum -40 °C • during storage / maximum 80 °C Certificates certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB		
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Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum • during storage / maximum • to °C • during storage / maximum • to °C • during storage / maximum • to °C • to combat vessels) / supplement SB		Yes
protection class IP / on the front ambient temperature • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum • during storage / maximum • Certificates certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB		
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 vessels) / supplement SB		IP40
 during operation / minimum during operation / maximum 0 °C during storage / minimum 0 °C during storage / maximum 0 °C Certificates Certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB Yes	·	
• during operation / maximum • during storage / minimum • during storage / maximum 80 °C Certificates certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB 70 °C 80 °C Yes	•	-25 °C
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Certificates certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB Yes		
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB		
	certificate of suitability / as approval for NAVAL (no combat	Yes









Miscellaneous

General Product Approval

EMC

Declaration of Conformity

Test Certificates

Marine / Shipping









Type Test Certificates/Test Report



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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA5190-5EC36-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5190-5EC36-1AA0

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

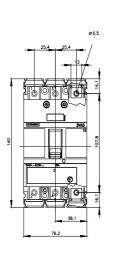
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5190-5EC36-1AA0

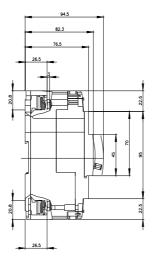
CAx-Online-Generator

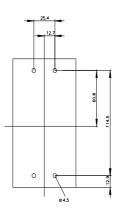
http://www.siemens.com/cax

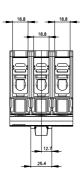
Tender specifications

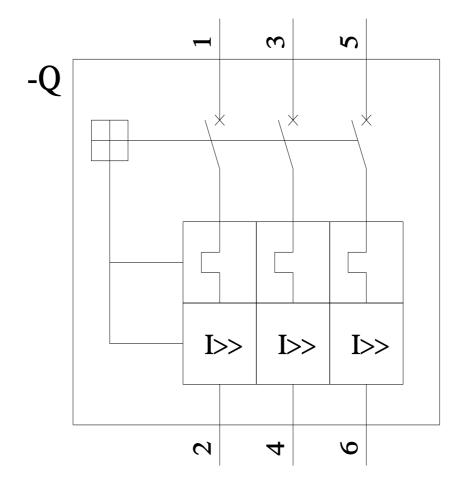
http://www.siemens.com/specifications

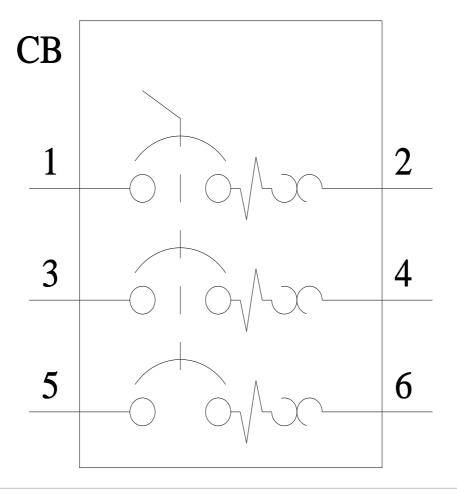












last modified: 8/15/2023 🖸

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