3VA5195-4EF36-0AA0

## **Data sheet**



circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 480 V 3-pole, line protection TM240, ATAM, In=15A overload protection Ir=12A ...15A short-circuit protection Ii=10...20 x In cable connection on both sides

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	SEAS
design of the product	System protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design of the load switch / according to UL 489 / High-Intensity-Discharge circuit breaker (HID Type)	Yes
design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type)	Yes
design of the overcurrent release	TM240
protection function of the overcurrent release	Ц
number of poles	3
General technical data	
insulation voltage / rated value	800 V
operating voltage / at DC / rated value	500 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	10.6 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	3.53 W
mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	8 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	4 000
electrical endurance (operating cycles) / at 480 V	8 000
electrical endurance (operating cycles) / at 600 V	4 000
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No
ground-fault monitoring version	without
product function	
<ul> <li>communication function</li> </ul>	No
other measurement function	No
Net Weight	0.794 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	15 A
• at 45 °C	15 A
• at 50 °C	14 A
• at 55 °C	14 A
• at 60 °C	14 A
• at 65 °C	14 A

Synthibing capacity according to IEC 6947	● at 70 °C	14 A
switching capacity class of the circuit breaker size of the circuit breaker of the circuit breaker size of the circuit current breaking capacity (bu) size of the circuit current making capacity (bu) size of the circuit current making capacity (bun) size of the circuit current circuit current		
maximum short-circuit current breaking capacity (lou)  • at 240 V  • at 680 V		S
# 1240 V		
e. at 415 V   5 kA		55 kA
e at 690 V operating short-clut current breaking capacity (ics) ** #1240 V ** #145 V ** #160 V ** #145 V ** #160 V ** #145 V *		
operating short circuit current breaking capacity (ks)  • 120 V  • 1415 V  • 1600 V  5 kA  30 kA  • 1415 V  • 1600 V  7 5 kA  21		
and 240 V and 415 V and 690 V 5 NA short-cruit current making capacity (tom) and 2415 V and 415 V and 415 V 5 Set NA  design of short-circuit protection  design of short-circuit protection  for switching gener values in DC networks, see the 3VA melded case circuit breaker device manual: tink to be found under Service & Support in the last chapter  Switching apacity according to UL-489  current breaking capacity and 240 V and 400 V a		
and 415 V 5 kA short-trienut current making capacity (Icm)  al 240 V 75 kA  al 415 V 75 kKA  at 480 V 75 kKA  design of short-circuit protection  For switching power values in DC networks, see the SVA moided 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 85 kA  at 800 V 25 kA  at 800 V 25 kA  at 800 V 347 V 44 kA  Adjuntable parameters  adjustable response value setting current (Ir) / of the L-trip / with L2t characteristic  animism  maximum  maximum  adjustable response value setting current (III) / for L-tripping / with 12t characteristic  minimum  maximum  adjustable response value setting current (III) / for I-tripping  minimum  maximum  adjustable setting current (IN) / for N-tripping  minimum  maximum  adjustable current response value current / of the current-dependent overdad release product function / grounding protection  No  Mechanical Dasin  product component  undervoltage release  voltage rigger  volt		55 kA
e at 890 V old 240 V old 240 V old 240 V old 245 V old 2		
e al 240 V e al 415 V e at 480 V e at 680 V e at 680 V e at 680 V e at 680 V e at 800 V	• at 690 V	5 kA
at 415 V at 690 V  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 439  Current breaking capacity  at 240 V at 800 Y/347 V  4 disable parameters  adjustable response value setting current (fr) of the L-trip / with L2t characteristic  maximum maximum maximum adjustable response value setting current (fi) for L-tripping / with L2t characteristic  minimum maximum maximum maximum adjustable response value setting current (fi) for I-tripping minimum maximum maxim	short-circuit current making capacity (Icm)	
e at 690 V  design of short-circuit protection  bear available ground in the last obspired in the last obspired as a support in the last obspi		121 kA
design of short-circuit protection  For ewithing power values in DC networks, see the 3VA motifed case circuit breaking capacity according to UL 459  current breaking capacity  at 240 V  at 800 V  at 800 V  at 800 V/347 V  Adjustable parameters  adjustable response value setting current (itr) / of the L-trip / with 12t characteristic  minimum  maximum  15 A  adjustable response value delay time (itr) / for L-tripping / with 12t characteristic  minimum  maximum  15 C  minimum  15 C  maximum  No A  maximum  No N  maximum  No A	• at 415 V	75.6 kA
breaker device manual: link to be found under Service & Support in the last chapter  current breaking capacity	• at 690 V	7.5 kA
Switching capacity according to UL 489  current breaking capacity	design of short-circuit protection	breaker device manual; link to be found under Service & Support in the last
current breaking capacity  at 240 V  at 480 V  25 kA  25 kA  14 kA  Adjustable response value setting current (ir) / of the L-rip / with lat characteristic  minimum  maximum  maximum  12 A  15 A  adjustable response value delay time (tr) / for L-tripping / with 12t characteristic  minimum  maximum  18   maximum  19 A  300 A  300 A  300 A  adjustable response value setting current (ii) / for l-tripping / with 12t characteristic  minimum  maximum  omaximum  omaximum  omaximum  omaximum  omaximum  omaximum  on A  dijustable setting current (inN) / for N-tripping  minimum  omaximum  on A  dijustable setting current (inN) / for N-tripping  minimum  on A  on A  dijustable setting current (inN) / for N-tripping  minimum  on A  on A  dijustable setting current (inN) / for N-tripping  minimum  on A  on A  on A  dijustable current response value current / of the current- oppendent overfoad release  product function / grounding protection  No  Mockannical Design  product component  ondervoltage release  voltage trigger  vip indicator  on A  voltage trigger  vip indicator  No  voltage trigger  vip of connectable conductor cross-sections / of the round conductor terminal / stranded width  for 2 mm  depth (in)  d	Switching capacity according to UL 489	
at 800 V/347 V 14 kA Adjustable parameters adjustable response value setting current (Ir) / of the L-trip / with IZ characteristic  minimum 12 A adjustable response value delay time (tr) / for L-tripping / with IZt characteristic  minimum 15 A adjustable response value delay time (tr) / for L-tripping / with IZt characteristic  minimum 1 s  maximum 1 s  maximum 1 s  maximum 1 s  maximum 300 A adjustable response value setting current (Iii) / for I-tripping  minimum 1 s  maximum 300 A  adjustable setting current (In) / for I-tripping  minimum 0 A  maximum 0 A  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 frigger No  voltage frigger No  height [In] 5.51 in  height 140 mm  width (In) 3.01 in  depth 76.2 mm  depth 17		
a tild 600 Y/347 V  Adjustable parameters adjustable response value setting current (ir) / of the L-trip / with l2t characteristic  in minimum  maximum  15 A  adjustable response value delay time (tr) / for L-tripping / with l2t characteristic  minimum  maximum  1 s  adjustable response value setting current (ii) / for I-tripping  minimum  maximum  0 A  adjustable setting current (inn) / for N-tripping  minimum  maximum  0 A  adjustable setting current (inn) / for N-tripping  minimum  naximum  0 A  adjustable setting current of the current dependent overload release product function / grounding protection  No  Mochanical Design  product component  undervoltage release  voltage frieger  trip indicator  No  height [in]  height [in]  soft in Haw Good of the round conductor cross-sections / of the round conductor terminal / stranded  width [in]  ype of connectable conductor / for main current circuit  product extension / or main current circuit  front connections  arrangement of electrical connectors / for main current circuit  product extension / optional / motor drive  Yes	• . ,	65 kA
Adjustable parameters  adjustable response value setting current (in) / of the L-trip / with 12t characteristic  • minimum  • maximum  adjustable response value delay time (tr) / for L-tripping / with 12t characteristic  • minimum  • minimum  • minimum  • minimum  • maximum  1 s  adjustable response value setting current (ii) / for L-tripping / with 12t characteristic  • minimum  • no A  dustable setting current (inN) / for N-tripping  • minimum  • minimum  • no A  Adjustable current response value current / of the current-dependent overload release  product function / grounding protection  No  Mechanical Design  product component  • undervoltage release  • voltage trigger  • trip indicator  No  No  height [in]  height  width  in]  jupe of connectable conductor cross-sections / of the round conductor terminal / stranded  width  depth [in]  depth [in]  depth [in]  3.01 in  depth [in]  Auxiliary circuit  number of CO contacts / for main current circuit  Auxiliary circuit  number of CO contacts / for maxiliary contacts  Accessories  product extension / optional / motor drive  Yes	• at 480 V	25 kA
adjustable response value setting current (ir) / of the L-trip / with 12 tharacteristic   • minimum	• at 600 Y/347 V	14 kA
12 A   minimum   12 A   maximum   15 A	Adjustable parameters	
adjustable response value delay time (tr) / for L-tripping / with 12t characteristic  minimum maximum		
adjustable response value delay time (tr) / for L-tripping / with 12t characteristic  • minimum • maximum 1 s  adjustable response value setting current (ii) / for I-tripping • minimum • maximum 300 A  adjustable setting current (InN) / for N-tripping • minimum • maximum 0 A  adjustable setting current (InN) / for N-tripping • minimum • maximum 0 A  adjustable current response value current / of the current-dependent overload release product function / grounding protection  Mo  Mechanical Design  product component • undervoltage release • voltage trigger • No • trip indicator No height [in] height 140 mm width [in] 3 in type of connectable conductor cross-sections / of the round conductor terminal / stranded width depth [in] depth [in] 3.01 in depth [in] depth [in] 76.5 mm  Connections  arrangement of electrical connectors / for main current circuit type 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 Yes	• minimum	12 A
characteristic  • minimum  • maximum  1 s  adjustable response value setting current (iii) / for I-tripping  • minimum  • maximum  300 A  adjustable setting current (InN) / for N-tripping  • minimum  • maximum  0 A  adjustable setting current (InN) / for N-tripping  • minimum  0 A  • maximum  adjustable current response value current / of the current-dependent overload release product function / grounding protection  No  Mechanical Design  product component  • undervoltage release  • voltage trigger  • trip indicator  No  height [in]  140 mm  width [in]  1ype of connectable conductor cross-sections / of the round conductor terminal / stranded  width  depth [in]  depth  76.2 mm  Connections  arrangement of electrical connectors / for main current circuit type of electrical connector / for main current circuit type of electrical connection / for main current circuit type of electrical connection / for main current circuit type 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  Yes	maximum	15 A
maximum     adjustable response value setting current (ii) / for I-tripping         • minimum		
adjustable response value setting current (iii) / for I-tripping		
<ul> <li>minimum</li> <li>maximum</li> <li>adjustable setting current (inN) / for N-tripping</li> <li>minimum</li> <li>maximum</li> <li>0 A</li> <li>maximum</li> <li>0 A</li> <li>adjustable current response value current / of the current-dependent overload release</li> <li>product function / grounding protection</li> <li>No</li> <li>Mechanical Dosign</li> <li>product component</li> <li>undervoltage release</li> <li>voltage trigger</li> <li>voltage trigger</li> <li>irip indicator</li> <li>height [in]</li> <li>5.51 in</li> <li>height [in]</li> <li>type of connectable conductor cross-sections / of the round conductor terminal / stranded</li> <li>width [in]</li> <li>type of connectable conductor cross-sections / of the round conductor terminal / stranded</li> <li>width</li> <li>76.2 mm</li> <li>depth [in]</li> <li>3.01 in</li> <li>depth [in]</li> <li>76.5 mm</li> </ul> Connections arrangement of electrical connectors / for main current circuit Front connection triplication of connection / for main current circuit The connection of connector		1s
maximum     adjustable setting current (InN) / for N-tripping         • minimum		
adjustable setting current (InN) / for N-tripping		
minimum maximum maxim		300 A
maximum     adjustable current response value current / of the current-dependent overload release product function / grounding protection  Mochanical Design  product component     undervoltage release     voltage trigger     trip indicator     height [in]     height [in]     identify of connectable conductor cross-sections / of the round conductor terminal / stranded  width [in]  depth 76.5 mm  Connections  arrangement of electrical connectors / for main current circuit type of electrical connectors / for main current circuit circular conductor terminal on both sides  Accessories  product extension / optional / motor drive  Yes		
adjustable current response value current / of the current- dependent overload release product function / grounding protection  Mechanical Design product component  • undervoltage release • voltage trigger • trip indicator  height [in] height [in] height [in]  stype of connectable conductor cross-sections / of the round conductor terminal / stranded  width depth [in] depth 76.5 mm  Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit tupe of electrical connection / for main current circuit number of CO contacts / for auxiliary contacts  0  Accessories product extension / optional / motor drive  Yes		
dependent overload release product function / grounding protection  Mechanical Design  product component  • undervoltage release • voltage trigger • No • trip indicator No  height [in] height itype of connectable conductor cross-sections / of the round conductor terminal / stranded  width depth [in] depth in] depth fin] depth fin] depth fonnections arrangement of electrical connectors / for main current circuit type of electrical connector / for main current circuit number of CO contacts / for auxiliary contacts  Auxiliary circuit number of CO contacts / for auxiliary contacts  O  Accessories product extension / optional / motor drive  Yes		
product function / grounding protection  Mechanical Design  product component  • undervoltage release • voltage trigger • voltage trigger • trip indicator • height [in] • beight in]  type of connectable conductor cross-sections / of the round conductor terminal / stranded  width [in]  depth 76.2 mm  depth [in]  depth 76.5 mm  Connections  arrangement of electrical connectors / for main current circuit type of connection / for main current circuit type of 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  Yes		11 15 A
Mechanical Design  product component  • undervoltage release • voltage trigger • No  • trip indicator  height [in] height width [in]  type of connectable conductor cross-sections / of the round conductor terminal / stranded  width depth [in] depth 76.5 mm  Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit type of electrical connection / for main current circuit number of CO contacts / for auxiliary contacts  D Accessories product extension / optional / motor drive  Yes		No
product component  • undervoltage release • voltage trigger • No • trip indicator No height [in] height ithin 140 mm width [in] yep of connectable conductor cross-sections / of the round conductor terminal / stranded width in] ithin 140 mm		
• undervoltage release     • voltage trigger     • trip indicator     No  height [in]     5.51 in  height     width [in]     3 in  type 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 type of electrical connection / for main current circuit  rumber of CO contacts / for auxiliary contacts  Auxiliary circuit  number of CO contacts / for auxiliary contacts  Product extension / optional / motor drive  Yes		
• voltage trigger     • trip indicator     No  height [in]     5.51 in  height     width [in]     3 in  type 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 type of electrical connection / for main current circuit circular conductor terminal on both sides  Auxiliary circuit number of CO contacts / for auxiliary contacts  O  Accessories  product extension / optional / motor drive  Yes		No
in trip indicator     height [in]     height     height	-	No
height 140 mm  width [in] 3 in  type of connectable conductor cross-sections / of the round conductor terminal / stranded 1 x (14 AWG - 8 AWG)  width 76.2 mm  depth [in] 3.01 in  depth 76.5 mm  Connections  arrangement of electrical connectors / for main current circuit Front connection type 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 Yes		No
height 140 mm  width [in] 3 in  type of connectable conductor cross-sections / of the round conductor terminal / stranded 2		5.51 in
type 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 from connection type of electrical connection / for main current circuit circular conductor terminal on both sides  Auxiliary circuit  number of CO contacts / for auxiliary contacts  Accessories  product extension / optional / motor drive  Yes		140 mm
type 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 from connection type of electrical connection / for main current circuit circular conductor terminal on both sides  Auxiliary circuit  number of CO contacts / for auxiliary contacts  Accessories  product extension / optional / motor drive  Yes	width [in]	3 in
depth 76.5 mm  Connections arrangement of electrical connectors / for main current circuit Front connection type 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 Yes		1 x (14 AWG - 8 AWG)
depth 76.5 mm  Connections  arrangement of electrical connectors / for main current circuit Front connection type 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 Yes	width	76.2 mm
arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit circular conductor terminal on both sides  Auxiliary circuit number of CO contacts / for auxiliary contacts  D  Accessories product extension / optional / motor drive  Yes	depth [in]	3.01 in
arrangement of electrical connectors / for main current circuit  type of electrical connection / for main current circuit  circular conductor terminal on both sides  Auxiliary circuit  number of CO contacts / for auxiliary contacts  Accessories  product extension / optional / motor drive  Front connection  circular conductor terminal on both sides  0  Accessories  Yes		76.5 mm
type 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 Yes	Connections	
Auxiliary circuit  number of CO contacts / for auxiliary contacts  Accessories  product extension / optional / motor drive  Yes	arrangement of electrical connectors / for main current circuit	Front connection
number of CO contacts / for auxiliary contacts 0  Accessories  product extension / optional / motor drive Yes	type of electrical connection / for main current circuit	circular conductor terminal on both sides
Accessories product extension / optional / motor drive Yes	Auxiliary circuit	
product extension / optional / motor drive Yes	number of CO contacts / for auxiliary contacts	0
	Accessories	
Environmental conditions		Yes
	Environmental conditions	

protection class IP / on the front	IP40
ambient temperature	
<ul><li>during operation / minimum</li></ul>	-25 °C
<ul><li>during operation / maximum</li></ul>	70 °C
<ul><li>during storage / minimum</li></ul>	-40 °C
<ul> <li>during storage / maximum</li> </ul>	80 °C
Certificates	
reference code / according to IEC 81346-2	Q
General Product Approval	



Confirmation







**Miscellaneous** 

General Product Approval

**EMC** 

**Declaration of Conformity** 

**Test Certificates** 









Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping











Confirmation

other

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)

 $\underline{\text{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA5195-4EF36-0AA0}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5195-4EF36-0AA0

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

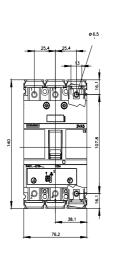
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5195-4EF36-0AA0

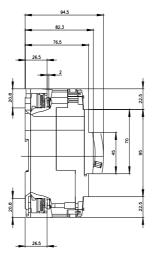
CAx-Online-Generator

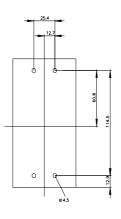
http://www.siemens.com/cax

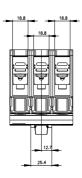
Tender specifications

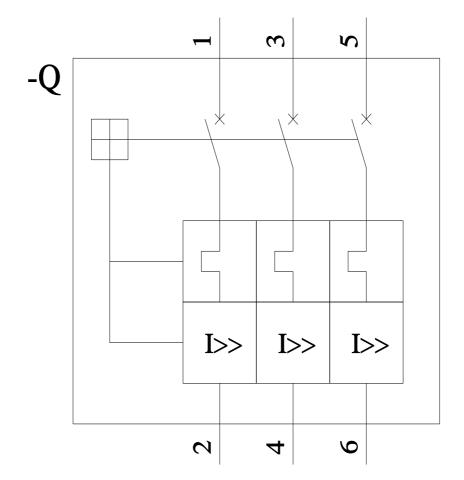
http://www.siemens.com/specifications

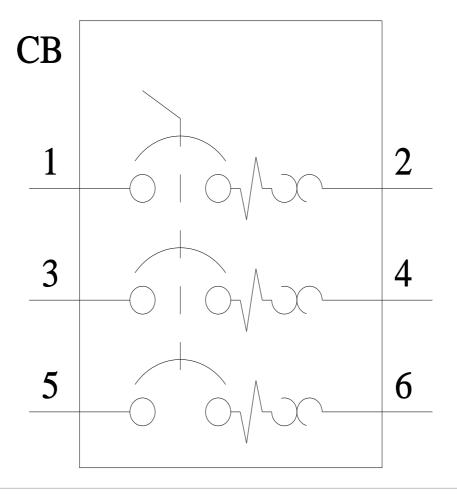












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**Authorized Distributor** 

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3VA51954EF360AA0