SIEMENS

Data sheet

3VA5190-4EC36-0AA0

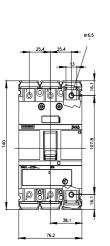


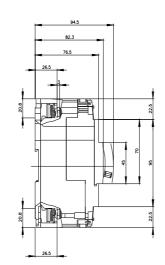
circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 480 V 3-pole, line protection TM230, FTAM, In=90A overload protection Ir=90A fixed short-circuit protection Ii=5...10 x In cable connection on both sides

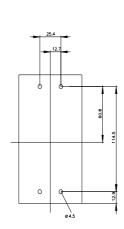
Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	SEAS
design of the product	System protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (HID Type)	No
design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type)	No
design of the overcurrent release	TM230
protection function of the overcurrent release	LI
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	21.4 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	7.13 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	
communication function	No
 other measurement function 	No
Net Weight	1.034 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

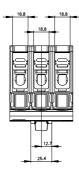
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switching capacity class of the circuit treaker S maxmum short-circuit current breaking capacity (icu) 55 kA at 815 V 56 kA at 815 V 75 6 kA at 816 V 75 kA delign of abort-circuit protection For switching power values in DC networks, see the 3VA moded case circuit breaker capacity (corrent treaking capacity (corrent (c) / of the Life / whith the fold treaking capacity (corrent (c) / of the Life / whith the fold treaking capacity (corrent (c) / of the current fold treaking capacity (corrent (c) / of the current fold treaking capacity (corrent (c) / of the current fold treaking capacity (corrent treaking capacity (corrent treaking capacity (corrent treaking capacity (corrent fold treaking capacity (corrent treaking capacity (corr		13 A
maximum abort-focul current breaking capacity (icu) 5 • • # 240 Y 55 Å • • # 650 Y 55 Å • • # 650 Y 55 Å • • # 1240 Y 55 Å • • # 1240 Y 55 Å • • # 1240 Y 55 Å • • # 145 Y 56 Å • • # 145 Y 56 Å • • # 145 Y 56 Å • • # 145 Y 75 6 Å • • # 146 Y 75 6 Å • • # 146 Y 75 6 Å • • # 140 Y 75 6 Å • • # 140 Y 80 Å • • # 140 Y 14 ÅA • • # 140 Y 14 ÅA • • #		6
• • • • • • • • • • • • • • • • • • •		3
• at 35 V35 kAoperating and/c direct current breaking capacity (Ics)5 kA• 1230 V36 kA• 1240 V95 kA• 1240 V95 kA• 1240 V95 kA• 1240 V95 kA• 1240 V75 5 kA• 1241 V75 5 kA• 1240 V95 6 kA• 1240 V95 6 kA• 1240 V95 kA• 1240 V96 kA• 1240 V90 A• 1240 V90 A </td <td></td> <td>55 KA</td>		55 KA
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operating short-orcuit current breaking capacity (ics) 85 A • et 240 Y 85 A • et 660 V 5 KA • et 660 V 75 SA • et 660 V 75 SA • et 616 V 75 SA • et 610 V 25 SA • et 610 V 25 SA • et 610 V 737 V 14 SA Adjustable response value deting current (fr) / of L - tripp / whit 12t 15 • enaimm 16 • • enaimm 90 A • enaimm 90 A </td <td></td> <td></td>		
i al 41 V Bi kA i al 415 V 36 kA i al 415 V 5 kA i al 420 V 5 kA i al 420 V 7.5 B kA i al 430 V 7.5 B kA i al 830 V 7.5 S kA design of short-circuit protection Bro switching power values in DC networks, see the SVA modded case circuit bracking capacity in the last chapter Switching capacity into to be found under Service & Support in the last chapter Current Dreaking capacity (Int) Current Dreaking capacity (Int) Intervice Service & Support in the last chapter Switching capacity into the 1409 Current Colspan="2">Switching capacity into the setting current (In) / of the L-tip / with 14 kA Adjustable response value desting current (In) / of the L-tip / with 14 kA Adjustable response value desting current (In) / of the L-tip / with 14 kA Adjustable response value desting current (In) / of the L-tip / with 15 setting current (In) / of the L-tip / with 12 setting current (In) / of the L-tip / with 12 setting current (In) / of the L-tip / with 12 setting current (In) / of the L-tip / with 12 setting current (In) / of the L-tip / with 12 setting current (In) / of the L-tip / with 12 setting current (In) / of the L-tip / with 12 setting current (In) / of the L-tip / with 12 setting current (In) / of the L-tip / with 12 setting current (In) / of the L-tip / with 12 setting current (In) / of the L-tip / with 12 setting current (In) / of the L-tip / with 12		5 KA
41 41 5 V38 kAa di do V5 kAshort-circui current making capacity (tem)121 kA• at di 5 V7.5 kA• at di 6 V7.5 kAdesign of short-circui protociton25 kAcurrent breaking capacity5 kA• at di 60 V7.5 kAcurrent breaking capacity5 kA• at 240 V65 kA• at 240 V65 kA• at 240 V65 kA• at 240 V65 kA• at 340 V26 kA• at 340 V65 kA• at 340 V65 kA• at 340 V65 kA• at 340 V66 kA• at 340 V66 kA• at 340 V90 A• at 340 V1 a• at 340 V90 A• at 340 V90 A• at 340 V90 A• at 340 V90 A• at 340 V1 a• at 340 V90 A• at 340 V90 A• at 340 V90 A• at 340 V1 a• at 340 V1 a• at 340 V90 A		
1 # 1890 V5 KAshort-circut current making capacity (tem)		
short-circuit current making capacity (lem)		
1240 V 121 kA • at 415 V 75.6 kA • at 60 V 75.6 kA design of short-circuit protection For switching power values in DC networks, see the 3VA molded case circuit adoption Switching capacity according to UL 489 Extended according to UL 489 Current Dreaking capacity 65 kA • at 360 V 25 kA • at 360 V/s47 V 14 kA Adjustable response value setting current (th) of the L+trip / with 124 characteristic 90 A • at 360 V/s47 V 14 kA Adjustable response value setting current (th) of the L+trip / with 124 characteristic 90 A • at 360 V/s47 V 14 kA Adjustable response value setting current (th) of the L+trip / with 124 characteristic 90 A • at 360 V/s47 V 14 kA adjustable response value delay time (b) / for L+tripping 1 • at 360 V/s47 V 14 kA adjustable response value delay time (b) / for L+tripping 90 A • at 360 V/s47 V/s47 V/s47 450 A • at 360 V/s47 V/s47 V/s47 90 A • at 360 V/s47 V/s47 V/s47 V/s47 5 • at 360 V/s47 V/s47 V/s47 V/s47 5 • at 360 V/s47 V/s47 V/s47 V/s47 90 A • at 360 V/s47 V/s47 V/s47 90 A • at 360 V/s47 V/s47 V/s47 90 A • at 36		5 KA
• al 415 V 75.8 kÅ • al 60 V 75.8 kÅ Gesign of short-circuit protection 75.8 kÅ Switching capacity according to UL 489 Under Service & Support in the last circuit braker device manual, link to be found under Service & Support in the last circuit braker device manual, link to be found under Service & Support in the last circuit braker device manual, link to be found under Service & Support in the last circuit braker device manual, link to be found under Service & Support in the last circuit braker device manual, link to be found under Service & Support in the last circuit braker device manual, link to be found under Service & Support in the last circuit braker device manual, link to be found under Service & Support in the last circuit braker device manual, link to be found under Service & Support in the last circuit braker device manual, link to be found under Service & Support in the last circuit braker device manual, link to be found under Service & Support in the last circuit braker device manual, link to be found under Service & Support in the last circuit braker device manual, link to be found under Service & Support in the last circuit braker device manual, link to be found under Service & Support in the last circuit braker device manual, link to be found under Service & Support in the last circuit braker device manual in the last circuit braker device manual in the service & Six kA • al 480 V • Six kA • al 480 V • Six kA • and source proteom device delay time (tr) / for L-tripping device the circuit device manual in the set device dev		
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design of short-circuit protection For switching power values in DC networks, see the 3VA moded case circuit braker device manual; link to be found under Service & Support in the last chapter. Switching capacity according to UL 459 Current breaking capacity current breaking capacity 65 KA • at 400 V 25 KA • adjustable response value setting current (II) / of the L-trip / with I2t characteristic 90 A • maximum 90 A • maximum 1 s • adjustable response value delay time (IV) / for L-tripping / with I2t • maximum 450 A • maximum 0 A <td></td> <td></td>		
Breaker device manual: link to be found under Service & Support in the last chapter Switching capacity according to UL 439 current breaking capacity 65 kA et 240 V 25 kA et 240 V 25 kA et 240 V 25 kA et 300 Y347 V 14 kA Adjustable parameters 90 A adjustable response value setting current (ir) / of the L-tinp / with 12t characteristic 90 A et maximum 90 A adjustable response value delay time (tr) / for L-tinpping / with 12t characteristic 1 s et maximum 90 A adjustable response value delay time (tr) / for L-tripping / with 12t characteristic 90 A et maximum 90 A adjustable response value delay time (tr) / for L-tripping / with 12t characteristic 90 A et maximum 90 A adjustable setting current (in) / for N-tripping / with 12t characteristic 90 A et maximum 0 A adjustable current response value current / of the current-dependent under old relase No product tamotion / grounding protection No Mechanical Design No product tamotion / gro		
current breaking capacity 65 kA • at 240 V 65 kA • at 600 Y347 V 14 kA Adjustable parameters 6 adjustable response value setting current (ir) / of the L-trip / with Izt haracteristic 90 A • minimum 90 A • enaximum 90 A • adjustable response value setting current (ir) / for L-tripping / with Izt 1 s • minimum 1 s • maximum 90 A • maximum 0 A • dijustable current response value current / of the current- 0	design of short-circuit protection	breaker device manual; link to be found under Service & Support in the last
• at 240 V 65 KA • at 800 V347 V 25 kA adjustable parameters adjustable response value setting current (ir) / of the L-trip / with 12 Charactersitic • minimum 90 A • minimum 90 A • adjustable response value delay time (tr) / for L-tripping / with 12 Charactersitic 90 A • minimum 1 s • maximum 1 s • maximum 450 A • minimum 0 A • minimum 0 A • minimum 0 A • maximum 00 A • maximum 00 A • maximum 0 A • dijustable exting current (inN) / for I-tripping • • maximum 0 A • order torelog current (inN) / for I-tripping • • undervoltage release No • product turcind / grounding protection No <td>Switching capacity according to UL 489</td> <td></td>	Switching capacity according to UL 489	
• at 480 V 25 kA • at 600 Y/347 V 14 kA Adjustable response value setting current (ir) / of the L-trip / wth 12 characteristic 90 A • minimum 90 A adjustable response value delay time (ir) / for L-tripping / with 12t characteristic 90 A • minimum 1 s adjustable response value delay time (ir) / for L-tripping / with 12t characteristic 1 s • minimum 1 s adjustable response value setting current (iii) / for I-tripping 60 A • minimum 900 A adjustable current response value current / (ii) / for I-tripping 0 A • minimum 0 A • undervoltage release No • voltage trigger No • volt	current breaking capacity	
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adjustable response value delay time (tr) / for L-tripping / with 12t • ininimum • maximum • fastanum • f	• minimum	90 A
characteristic in minimum 1 s in a service of the current of the c	• maximum	90 A
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number of CO contacts / for auxiliary contacts 0 Accessories	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	
	product extension / optional / motor drive	Yes
	Environmental conditions	

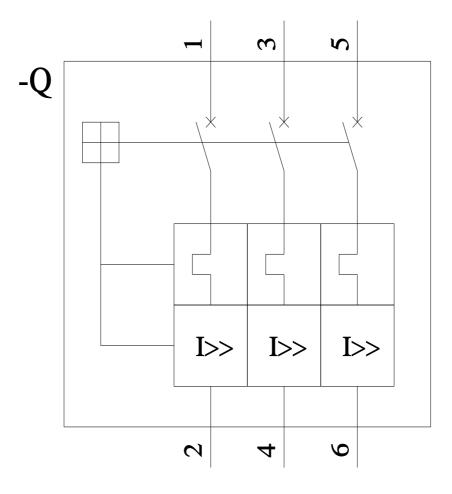
protection class IP / on t	the front	IP40						
ambient temperature		25 °	2					
during operation /		-25 °(70 °C						
during operation /		-40 °(
during storage / n		-40 °C						
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reference code / accord	ing to IEC 81346-2	Q						
General Product Appr	-							
<u>Confirmation</u>			(UL)	UDE VDE	<u>Miscellaneous</u>			
General Product Ap- proval	EMC	Declaration of Confor	mity	Test Certificates				
	-							
EHC	RCM	CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report			
Marine / Shipping		other						
ABS	RMRS R	<u>Confirmation</u>	<u>Miscellaneous</u>					
Further information								
Siemens has decided								
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 bttps://puppedf.idu/double.com/global/en/pressrelease/siemens-wind-down-russian-business bttps://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business 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=3VA5190-4EC36-0AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,)								
https://support.industry.siemens.com/cs/ww/en/ps/3VA5190-4EC36-0AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5190-4EC36-0AA0								
CAx-Online-Generator http://www.siemens.com/cax_								
Tender specifications	<u>I/CaX</u>							
http://www.siemens.com/specifications								

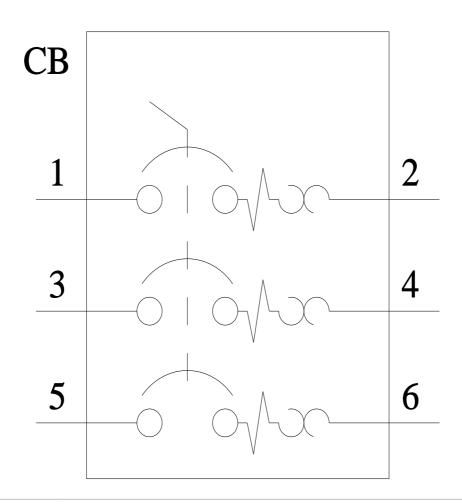












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