3VA5180-4ED11-1AA0

## **Data sheet**



circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 277V 1-pole, line protection TM210, FTFM, In=80A overload protection Ir=80A fixed short-circuit protection Ii=10 x In UL 489 SB (naval),  $50^\circ$  C without connection

product designation / according to UL file SEAM Molded-case circuit breaker product designation / according to UL file SEAM System protection 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 (HOCR Type) design of the load switch / according to UL 489 / High-Intensity-Discharge circuit breaker (HOCR Type) design of the load switch / according to UL 489 / Switching Duty crub treaker (MOT Type) design of the board switch / according to UL 489 / Switching Duty crub treaker (MOT Type) design of the overcurrent release TM210 protection function of the overcurrent release LU number of poles 1  Ceneral technical data operation with a company of the current / at AC / in hot operating voltage / at AC / rated value 415 V power loss [W] / maximum 64.33 W power loss [W] / for rated value of the current / at AC / in hot operating stole / per pole mechanical service life (operating cycles) / at AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / at AC-1 / at 680 V 4 000 electrical endurance (operating cycles) / at AC-1 / at 680 V 4 000 electrical endurance (operating cycles) / at AC-1 / at 680 V 4 000 electrical endurance (operating cycles) / at AC-1 / at 680 V 8 000 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 8 000 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 8 000 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 8 000 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 8 000 el	Model	
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 (FMD 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] / 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 ABO V 4 000 electrical endurance (operating cycles) / at ABO V 8 000 electrical endurance (operating cycles) / at ABO V 8 000 electrical endurance (operating cycles) / at ABO V 8 000 electrical endurance (operating cycles) / at ABO V 8 000 electrical endurance (operating cycles) / at ABO V 8 000 electrical endurance (operating cycles) / at ABO V 8 000 electrical endurance (operating cycles) / at ABO V 8 000 electrical endurance (operating cycles) / at ABO V 8 000 electrical endurance (operating cycles) / at ABO V 8 000 electrical endurance (operating cycles) / at ABO V 8 000 electrical endurance (operating cycles) / at ABO V 8 000 electrical endurance (operating cycles) / at ABO V 8 000 electrical endurance (operating cycles) / at ABO V 8 000 electrical endurance (operating cycles) / at ABO V 8 000 electrical endurance (operating cycles) / at ABO V 8 000 electrical endurance (operating cycles) / at ABO V 8 000 electrical endurance (operating cycles) / at ABO V 8 000 electrical endurance (operating cycles) / at ABO V 8 000 electrical endurance (operating cycles) / at ABO V 8 0	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 (HD Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (ID Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (ISWD 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 operating voltage / at AC / rated value operating voltage / at AC / rated value operating state / per pole mechanical service life (operating cycles) / typical electrical endurance (operating cycles) / typical electrical endurance (operating cycles) / at AC-1 / at 380/415 V  electrical endurance (operating cycles) / at AC-1 / at 380/415 V  electrical endurance (operating cycles) / at AC-1 / at 380/4 V  electrical endurance (operating cycles) / at 800 V  electrical endurance (operating cycles) / at 800 V  electrical endurance (operating cycles) / at 800 V  oproduct feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version without  volunt feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version  volunt feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version  volunt feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version volunt feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof volunt feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof volunt feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof volunt feature / for neut	product designation	Molded-case circuit breaker
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circulat 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 / High-Intensity-Discharge 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 mumber of poles 1  Ceneral technical data operating voltage / at AC / rated value 415 V power loss [W] / maximum 6.43 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 380415 V electrical endurance (operating cycles) / at 480 V 4000 electrical endurance (operating cycles) / at 480 V 8000 electrical endurance (operating cycles) / at 480 V 8000 electrical endurance (operating cycles) / at 480 V 8000 electrical endurance (operating cycles) / at 480 V 8000 electrical endurance (operating cycles) / at 480 V 8000 electrical endurance (operating cycles) / at 480 V 8000 electrical endurance (operating cycles) / at 480 V 8000 electrical endurance (operating cycles) / at 480 V 8000 electrical endurance (operating cycles) / at 480 V 8000 electrical endurance (operating cycles) / at 480 V 8000 electrical endurance (operating cycles) / at 480 V 8000 electrical endurance (operating cycles) / at 480 V 8000 electrical endurance (operating cycles) / at 480 V 8000 electrical endurance (operating cycles) / at 480 V 8000 electrical endurance (operating cycles) / at 480 V 8000 electrical endurance (operating cycles) / at 480 V 8000 electrical endurance (operating cycles) / at 480 V 8000 electrical endurance (operating cycles) / at 480 V 8000 electrical endurance (operating cycles)	product designation / according to UL file	SEAM
Conditioning, and Refrigeration circuit breaker (HACR Type) design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (FMD Type)  design of the load switch / according to UL 489 / High-Intensity- protection function of the overcurrent release LI number of poles  Ceneral technical data operating voltage / at AC / rated value opwer loss [W] / maximum opwer loss [W] / for rated value of the current / at AC / in hot operating state / per pole mechanical service life (operating cycles) / typical electrical endurance (operating cycles) / at AC-1 / at 380/415 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at 800 V electrical endu	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 TM210 protection function of the overcurrent release number of poles 1  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) / 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  • other measurement function No Net Weight  Current  marking / according to UL 489 / 100%-rated breaker operational current • at 40 °C • at 50 °C • at 50 °C • at 60 °C • 73 A		Yes
design of the overcurrent release protection function of the overcurrent release LI number of poles 1  General technical data  operating voltage / at AC / rated value 415 V power loss [W] / maximum 6.43 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) / 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 AO 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 other measurement function No other measurement function No other measurement function No operational current 0 0.38 kg		No
protection function of the overcurrent release LI number of poles 1  General technical data Operating voltage / at AC / rated value 415 V  power loss [W] / maximum 6.43 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 380/415 V 8 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at 600 V 4 000 electrical endurance (operating cycles) / at 600 V 4 000 product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version without product function • communication function No • other measurement function No Net Weight 0.38 kg  Current  marking / according to UL 489 / 100%-rated breaker operational current • at 40 °C 80 A • at 45 °C 76 A • at 55 °C 76 A • at 55 °C 76 A • at 60 °C 774 A		No
number of poles	design of the overcurrent release	TM210
General technical data  operating voltage / at AC / rated value 415 V  power loss [W] / maximum 6.43 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  • other measurement function No  Net Weight 0.38 kg  Current  marking / according to UL 489 / 100%-rated breaker No  operational current  • at 40 °C 80 A  • at 55 °C 78 A  • at 55 °C 77 A  • at 55 °C 74 A  • at 65 °C 73 A	protection function of the overcurrent release	LI
operating voltage / at AC / rated value 415 V power loss [W] / maximum 6.43 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 6.43 W operating state / per pole 6.43 W operating state / per pole 7.00	number of poles	1
power 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 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 480 V 4 000 product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version without product function No	operating voltage / at AC / rated value	415 V
operating state / per pole mechanical service life (operating cycles) / typical 20 000 electrical endurance (operating cycles) / at AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 690 V 4 000 product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version without product function No e other measurement function No Net Weight 0.38 kg  Current marking / according to UL 489 / 100%-rated breaker No operational current e at 40 °C 80 A e at 45 °C 78 A e at 50 °C 76 A e at 60 °C 74 A e at 65 °C 73 A	power loss [W] / maximum	6.43 W
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		6.43 W
electrical endurance (operating cycles) / at AC-1 / at 690 V	mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at 480 V electrical endurance (operating cycles) / at 600 V  product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version  product function  communication function  other measurement function  No  No  Net Weight  Current  marking / according to UL 489 / 100%-rated breaker  operational current  at 40 °C  at 45 °C  at 55 °C  at 60 °C  at 65 °C  73 A	electrical endurance (operating cycles) / at AC-1 / at 380/415 V	8 000
electrical endurance (operating cycles) / at 600 V  product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof  ground-fault monitoring version  other measurement function  No  Net Weight  Current  marking / according to UL 489 / 100%-rated breaker  operational current  other 40 °C  other 45 °C  other 45 °C  other 50 °C  other 46 °C  ot	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 0.38 kg  Current marking / according to UL 489 / 100%-rated breaker No operational current • at 40 °C 80 A • at 45 °C 78 A • at 50 °C 77 A • at 55 °C 76 A • at 60 °C 74 A • at 65 °C 73 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		No
<ul> <li>◆ communication function</li> <li>No</li> <li>Nother measurement function</li> <li>No</li> <li>Net Weight</li> <li>0.38 kg</li> <li>Current</li> <li>marking / according to UL 489 / 100%-rated breaker</li> <li>No</li> <li>operational current</li> <li>at 40 °C</li> <li>at 45 °C</li> <li>at 50 °C</li> <li>at 55 °C</li> <li>at 60 °C</li> <li>at 60 °C</li> <li>at 65 °C</li> <li>73 A</li> </ul>	ground-fault monitoring version	without
● other measurement function  No  Net Weight  0.38 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  73 A	product function	
Net Weight         0.38 kg           Current           marking / according to UL 489 / 100%-rated breaker         No           operational current         80 A           • at 40 °C         80 A           • at 45 °C         78 A           • at 50 °C         77 A           • at 55 °C         76 A           • at 60 °C         74 A           • at 65 °C         73 A	<ul> <li>communication function</li> </ul>	No
Current           marking / according to UL 489 / 100%-rated breaker         No           operational current         80 A           • at 40 °C         80 A           • at 50 °C         78 A           • at 50 °C         77 A           • at 55 °C         76 A           • at 60 °C         74 A           • at 65 °C         73 A	<ul> <li>other measurement function</li> </ul>	No
marking / according to UL 489 / 100%-rated breaker       No         operational current       80 A         • at 40 °C       80 A         • at 45 °C       78 A         • at 50 °C       77 A         • at 55 °C       76 A         • at 60 °C       74 A         • at 65 °C       73 A	Net Weight	0.38 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	
<ul> <li>at 40 °C</li> <li>at 45 °C</li> <li>at 50 °C</li> <li>77 A</li> <li>at 55 °C</li> <li>at 60 °C</li> <li>at 65 °C</li> <li>73 A</li> </ul>	marking / according to UL 489 / 100%-rated breaker	No
<ul> <li>at 45 °C</li> <li>at 50 °C</li> <li>at 55 °C</li> <li>at 60 °C</li> <li>at 65 °C</li> <li>73 A</li> </ul>	operational current	
<ul> <li>at 50 °C</li> <li>at 55 °C</li> <li>at 60 °C</li> <li>at 65 °C</li> <li>73 A</li> </ul>	• at 40 °C	80 A
• at 55 °C 76 A • at 60 °C 74 A • at 65 °C 73 A	• at 45 °C	78 A
• at 60 °C 74 A • at 65 °C 73 A	• at 50 °C	77 A
• at 65 °C 73 A	● at 55 °C	76 A
	• at 60 °C	74 A
• at 70 °C 72 A	• at 65 °C	73 A
	• at 70 °C	72 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 L-tripping / with 12t characteristic • minimum • maximum • minimum • during operation / minimum • during storage /	● 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 L-tripping / with 12t characteristic • minimum • maximum • minimum • during operation / minimum • during storage /	Adjustable parameters	
maximum adjustable response value delay time (tr / for L-tripping / with 12t characteristic  in inimum maximum adjustable response value setting current (lil) / for I-tripping minimum maximum maxim	adjustable response value setting current (Ir) / of the L-trip / with	
adjustable response value delay time (tr) / for L-tripping / with 12 characteristic	• minimum	80 A
characteristic  • minimum  • minimum  • maximum  adjustable response value setting current (ii) / for I-tripping  • minimum  • undervoltage release  • voltage trigger  • No  • voltage trigger  • No  • trip indicator  • trip indicator	• maximum	80 A
adjustable response value setting current (ii) / for I-tripping		
adjustable response value setting current (iii) / for I-tripping  in minimum  awaximum  adjustable setting current (iniv) / for N-tripping  in minimum  maximum  0 A  adjustable setting current (iniv) / for N-tripping  in minimum  0 A  adjustable current response value current / of the current-dependent overload release product function / grounding protection  No  Acchanical Design  Product component  undervoltage release voltage trigger No voltage trigger No voltage trigger	• minimum	1 s
• minimum 800 A • maximum 800 A adjustable setting current (InN) / for N-tripping • minimum 0 A • maximum 0 A adjustable current response value current / of the current- adjustable current response value current / of the current- dependent overload release product function / grounding protection No    No	• maximum	1s
maximum 800 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	• minimum	800 A
• minimum • maximum 0 A dijustable current response value current / of the current- dependent overload release product function / grounding protection	maximum	800 A
maximum 0 A adjustable current response value current / of the current- dependent overload release product function / grounding protection No  Mochanical Design product component	adjustable setting current (InN) / for N-tripping	
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] 5.51 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  type of electrical connection / for main current circuit withiaux circuit number of CO contacts / for auxiliary contacts  of convertions arrangement of potential / motor drive product extension / optional / motor drive • during operation / maximum • during operation / maximum • during storage / minimum • during storage / minimum • during storage / maximum • during storage / maximum  certificate of suitability / as approval for NAVAL (no combat  Yes	• minimum	0 A
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]  stiff in]  depth  depth [in]  depth  connections  arrangement of electrical connectors / for main current circuit  type of electrical connection / for main current circuit  vixiliary circuit  number of CO contacts / for auxiliary contacts  of current electrical conference  electrical conference  product extension / optional / motor drive  of uning operation / maximum  of uning operation / maximum  of uning storage / minimum  of uning storage / minimum  of unifficates  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-	80 80 A
product component  • undervoltage release • voltage trigger • trip indicator No height [in] height lin] width [in] 1 in width [in] 1 in width [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 withiave of CO contacts / for auxiliary contacts  0  consecutions  product extension / optional / motor drive protection class IP / on the front ambient temperature • during operation / maximum • during storage / minimum • during storage / minimum • during storage / maximum • during	product function / grounding protection	No
• 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 operation / maximum • during storage / minimum • during storage / maximum • durin	Mechanical Design	
• undervoltage release • voltage trigger • 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] 4 76.5 mm  Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit wulliary circuit number of CO contacts / for auxiliary contacts 0  Coccessories  product extension / optional / motor drive invironmental conditions protection class IP / on the front ambient temperature • during operation / maximum • during operation / maximum • during storage / minimum • during storage / maximum	product component	
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
height [in] 5.51 in height 140 mm  width [in] 1 in  width (in] 25.4 mm  depth 25.4 mm  depth 76.5 mm  Connections  arrangement of electrical connectors / for main current circuit without connection / type of electrical connection / for main current circuit without wuxiliary circuit  number of CO contacts / for auxiliary contacts 0  Accessories  product extension / optional / motor drive No  Environmental conditions  protection class IP / on the front ambient temperature		
height 140 mm  width [in] 1 in  width 25.4 mm  depth [in] 3.01 in  76.5 mm  Connections  arrangement of electrical connectors / for main current circuit without connection  type of electrical connection / for main current circuit without  uxxiliary circuit  number of CO contacts / for auxiliary contacts 0  cocessories  product extension / optional / motor drive No  environmental conditions  protection class IP / on the front IP40  ambient temperature  • during operation / minimum • during operation / maximum • during storage / minimum • during storage / minimum • during storage / maximum  contrificates  certificate of suitability / as approval for NAVAL (no combat Yes		
width [in] 1 in  width 25.4 mm  depth [in] 3.01 in  76.5 mm  Connections  arrangement of electrical connectors / for main current circuit Without connection  type of electrical connection / for main current circuit Without  Auxiliary circuit  number of CO contacts / for auxiliary contacts 0  Accessories  product extension / optional / motor drive No  environmental conditions  protection class IP / on the front IP40  ambient temperature  • during operation / minimum • during operation / maximum • during storage / minimum • during storage / minimum • during storage / minimum • during storage / maximum • Ves  certificates  certificate of suitability / as approval for NAVAL (no combat	•	
width 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  Auxiliary circuit  number of CO contacts / for auxiliary contacts 0  Accessories  product extension / optional / motor drive No  Environmental conditions  protection class IP / on the front IP40  ambient temperature  • during operation / maximum - 25 °C • during operation / maximum - 40 °C • during storage / minimum - 40 °C • during storage / maximum - 80 °C  Certificates  certificate of suitability / as approval for NAVAL (no combat Yes	-	
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  uuxiliary circuit  number of CO contacts / for auxiliary contacts  product extension / optional / motor drive  norticonnental conditions  protection class IP / on the front ambient temperature  oduring operation / maximum 70 °C  oduring storage / minimum -40 °C  oduring storage / maximum 80 °C  certificates  certificates  certificate of suitability / as approval for NAVAL (no combat Yes		
depth 76.5 mm  Connections  arrangement of electrical connectors / for main current circuit Without connection type of electrical connection / for main current circuit Without  Auxiliary circuit  number of CO contacts / for auxiliary contacts 0  Accessories  product extension / optional / motor drive No  Environmental conditions  protection class IP / on the front IP40  ambient temperature  • during operation / maximum -25 °C  • during operation / maximum -40 °C  • during storage / minimum -40 °C  • during storage / maximum 80 °C  Certificates  certificate of suitability / as approval for NAVAL (no combat Yes		
arrangement of electrical connectors / for main current circuit  type of electrical connection / for main current circuit  Without  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  o during operation / maximum  during operation / maximum  oduring storage / minimum  during storage / minimum  during storage / maximum  oduring storage / maximum  entire temperature  oduring storage / maximum  oduring storage / ma		
arrangement of electrical connectors / for main current circuit  type of electrical connection / for main current circuit  Without  No  Accessories  product extension / for auxiliary contacts  Product extension / optional / motor drive  No  Environmental conditions  Protection class IP / on the front  IP40  ambient temperature  • during operation / minimum  -25 °C  • during operation / maximum  70 °C  • during storage / minimum  -40 °C  • during storage / maximum  80 °C  Certificates  certificate of suitability / as approval for NAVAL (no combat  Yes	•	76.3 11111
type of electrical connection / for main current circuit  Auxiliary circuit  number of CO contacts / for auxiliary contacts  0  Accessories  product extension / optional / motor drive  No  Environmental conditions  protection class IP / on the front  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		AARD A
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  • curing storage / maximum  • during storage / maximum  • during storage / maximum  **Recomplete of Section 1		
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	·	0
protection class IP / on the front  ambient temperature  • during operation / minimum  • during operation / maximum  • during storage / minimum  • during storage / maximum  • curing storage / maximum  • curing storage / maximum  Certificates  certificate of suitability / as approval for NAVAL (no combat  Yes		
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	Environmental conditions	
<ul> <li>during operation / minimum</li> <li>during operation / maximum</li> <li>C</li> <li>during storage / minimum</li> <li>during storage / maximum</li> <li>C</li> </ul> Certificates certificate of suitability / as approval for NAVAL (no combat Yes	protection class IP / on the front	IP40
• 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	<ul> <li>during operation / minimum</li> </ul>	-25 °C
during storage / maximum     80 °C  Certificates  certificate of suitability / as approval for NAVAL (no combat  Yes	<ul><li>during operation / maximum</li></ul>	70 °C
Certificates  certificate of suitability / as approval for NAVAL (no combat  Yes	during storage / minimum	-40 °C
Certificates  certificate of suitability / as approval for NAVAL (no combat  Yes		80 °C
certificate of suitability / as approval for NAVAL (no combat	a during storage / maximum	



Confirmation







Miscellaneous

General Product Approval

EMC

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping









Type Test Certificates/Test Report



Marine / Shipping

other









Confirmation

Miscellaneous

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=3VA5180-4ED11-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5180-4ED11-1AA0

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

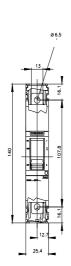
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5180-4ED11-1AA0

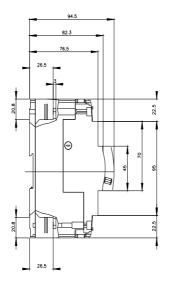
**CAx-Online-Generator** 

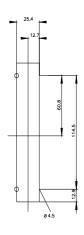
http://www.siemens.com/cax

Tender specifications

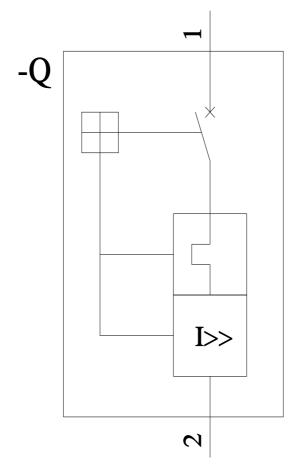
http://www.siemens.com/specifications

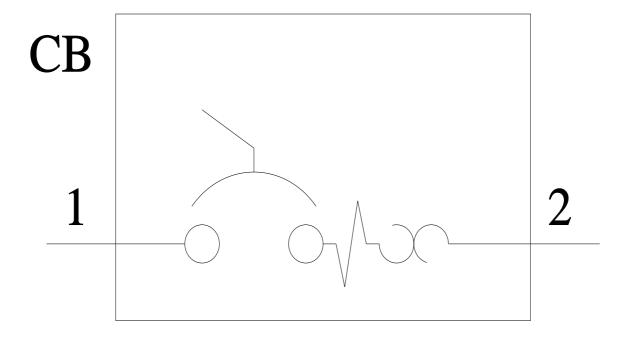












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Siemens:

3VA51804ED111AA0