3VA5195-4EC31-1AA0

# **Data sheet**



circuit breaker 3VA5 UL frame 125 breaking capacity class S 25KA @ 480 V 3-pole, line protection TM230, FTAM, In=15A overload protection Ir=15A fixed short-circuit protection Il=5...10xIN UL 489 SB (naval),  $50^{\circ}$  cel. without connection

product designation product designation product designation / according to UL file 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 (FIO Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (FIO Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (FIO Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (FIO Type) design of the overcurrent release	Model	
product designation / according to UL file SEAM 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 design of the load switch / according to UL 489 / Switching Duty design of the load switch / according to UL 489 / Switching Duty design of the overcurrent release  TM230  grotection function of the overcurrent release  LI unumber of poles  3  Central 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 electrical endurance (operating cycles) / at AC-1 / at 804/15 V electrical endurance (operating cycles) / at AC V / at 80 V electrical endurance (operating cycles) / at AB V electrical endurance (operating	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 protection function of the overcurrent release ILI number of poles 3 General technical data operating voltage / at AC / rated value power loss [W] / maximum 10.6 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 380/415 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 480 V 9 roduct feature / for neutral conductors / upgradable/retrofittable yelectrical endurance (operating cycles) / at 600 V yoround-fault monitoring version without product feature / for neutral conductors / upgradable/retrofittable occurrent  • at 40 °C • at 45 °C • at 65 °C • at 46 °C • at 65 °C	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 10.6 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	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- bischarge circuit breaker (HHD 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 LI number of poles  General technical data  operating voltage / at AC / rated value opwer loss [W] / maximum 10.6 W 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 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 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 650 C endurance (operating cycles) / at AC-1 / at 650 C endurance (operating cycles) / at AC-1 / at 650 C endurance (operating cycles) / at AC-1 / at 650 C endurance (operating cycles) / at AC-1 / at 650 C endurance (operatin	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 LL 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) / at AC-1 / at 380/415 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at AC-0 V electrical endurance (operating cycles) / at AC-1 / at AC-0 V electrical endu		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 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 • other measurement function No No Net Weight 650 g  Current marking / according to UL 489 / 100%-rated breaker No operational current • at 40 °C 15 A		Yes
protection function of the overcurrent release  LI number of poles  3  General technical data  operating voltage / at AC / rated value  power loss [W] / maximum  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  mechanical service life (operating cycles) / typical  electrical endurance (operating cycles) / at AC-1 / at 380/415 V  electrical endurance (operating cycles) / at AC-1 / at 380/415 V  electrical endurance (operating cycles) / at AC-1 / at 690 V  electrical endurance (operating cycles) / at 600 V  electrical endurance (operating cycles) / at 600 V  electrical endurance (operating cycles) / at 600 V  for outper dature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof  ground-fault monitoring version  without  product function  communication function  No  Not Weight  650 g  Curront  marking / according to UL 489 / 100%-rated breaker  operational current  e at 40 °C  at 45 °C  at 55 °C  14 A  at 60 °C  14 A		Yes
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 10.6 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 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 650 g  Current marking / according to UL 489 / 100%-rated breaker No operational current	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	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 650 g  Current marking / according to UL 489 / 100%-rated breaker operational current • at 40 °C • at 45 °C • at 50 °C 15 A • at 55 °C 14 A • at 60 °C 14 A • at 60 °C 14 A • at 65 °C	power loss [W] / maximum	10.6 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		3.53 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  14 A • at 65 °C  14 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 Note Weight  marking / according to UL 489 / 100%-rated breaker  operational current  o at 40 °C otal 45 °C otal 45 °C otal 45 °C otal 55 °C otal 4 A otal 60 °C otal 65 °C  14 A otal 65 °C otal 4 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  product function  communication function  nother measurement function  Nothet Weight  marking / according to UL 489 / 100%-rated breaker  operational current  at 40 °C  at 45 °C  at 45 °C  at 55 °C  14 A  at 60 °C  at 65 °C  14 A  at 65 °C  14 A	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 650 g  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 65 °C 14 A  • at 65 °C 14 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  650 g  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 60 °C  • at 65 °C  14 A		No
<ul> <li>● communication function</li> <li>No</li> <li>Not Weight</li> <li>650 g</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 50 °C</li> <li>at 60 °C</li> <li>at 60 °C</li> <li>at 60 °C</li> <li>at 65 °C</li> </ul>	ground-fault monitoring version	without
● other measurement function  No  Net Weight  650 g  Current  marking / according to UL 489 / 100%-rated breaker  operational current  ● at 40 °C  ● at 45 °C  ● at 50 °C  15 A  ● at 50 °C  14 A  ● at 60 °C  ● at 65 °C  14 A	product function	
Net Weight       650 g         Current         marking / according to UL 489 / 100%-rated breaker       No         operational current <ul> <li>at 40 °C</li> <li>at 45 °C</li> <li>at 50 °C</li> <li>15 A</li> <li>at 50 °C</li> <li>14 A</li> <li>at 60 °C</li> <li>at 60 °C</li> <li>14 A</li> </ul> at 65 °C       14 A	<ul> <li>communication function</li> </ul>	No
Current           marking / according to UL 489 / 100%-rated breaker         No           operational current         15 A           • at 40 °C         15 A           • at 50 °C         14 A           • at 55 °C         14 A           • at 60 °C         14 A           • at 65 °C         14 A	<ul> <li>other measurement function</li> </ul>	No
marking / according to UL 489 / 100%-rated breaker       No         operational current       15 A         • 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	Net Weight	650 g
operational current  • at 40 °C  • at 45 °C  • at 50 °C  15 A  • at 50 °C  14 A  • at 60 °C  • at 65 °C  14 A	Current	
<ul> <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 65 °C</li> <li>14 A</li> <li>at 65 °C</li> <li>14 A</li> </ul>	marking / according to UL 489 / 100%-rated breaker	No
<ul> <li>at 45 °C</li> <li>at 50 °C</li> <li>14 A</li> <li>at 55 °C</li> <li>14 A</li> <li>at 60 °C</li> <li>at 65 °C</li> <li>14 A</li> </ul>	operational current	
• at 50 °C 14 A • at 55 °C 14 A • at 60 °C 14 A • at 65 °C 14 A	• at 40 °C	15 A
• at 55 °C 14 A • at 60 °C 14 A • at 65 °C 14 A	• at 45 °C	15 A
• at 60 °C 14 A • at 65 °C 14 A	• at 50 °C	14 A
• at 65 °C 14 A	• at 55 °C	14 A
	• at 60 °C	14 A
• at 70 °C	● at 65 °C	14 A
	• at 70 °C	14 A

For switching capacity according to UL 489	switching capacity class of the circuit breaker	S
current breaking capacity         65 kA           • at 240 V         25 kA           • at 480 V         25 kA           • at 600 V/347 V         14 kA           Valustable parameters         Valustable parameters           adjustable response value setting current (ir) / of the Ltrip / with 12t characteristic         15 A           • minimum         15 A           • minimum         1 s           • maximum         1 s           • minimum         1 s           • minimum         1 s           • minimum         1 s           • minimum         300 A           • minimum         0 A           •	· · ·	
+ 1240 V	Switching capacity according to UL 489	
* at 480 V   45 kA   14 kA	current breaking capacity	
• al 600 Y/347 V	• at 240 V	65 kA
Adjustable parameters  adjustable response value setting current (ir) / of the L-trip / with IZC characteristic  inininum	● at 480 V	25 kA
adjustable response value setting current (in/ of the L-trip / with L2f characteristic  • minimum • maximum adjustable response value delay time (tr) / for L-tripping / with L2f characteristic • minimum • maximum adjustable response value setting current (iii) / for L-tripping / with L2f characteristic • minimum • during operation / maximum • du	● at 600 Y/347 V	14 kA
adjustable response value setting current (ir) / of the L-trip / with I2t characteristic  • minimum • maximum adjustable response value delay time (tr) / for L-tripping / with I2t characteristic  • minimum • maximum adjustable response value setting current (iii) / for I-tripping / is a setting current (iii) / for I-tripping • minimum • maximum adjustable response value setting current (iii) / for I-tripping • minimum • maximum adjustable setting current (inN) / for N-tripping • minimum • maximum adjustable setting current / of the current dependent overfoad release product function / grounding protection  Mo Mechanical Dasin  product component • undervortage release • voltage triger • inj indicator • voltage triger • inj indicator • lading fini • depth [in] • 5.51 in height [in] • 5.55 in height [in] • 5.55 mm  Connections  arrangement of electrical connectors / for main current circuit without connection / for main current circuit without connection type of electrical connectors / for main current circuit without connection  type of electrical connectors / for main current circuit without connection  To Countact / for suxiliary contacts • during operation / maximum • during operation / maximum • during operation / maximum • during storage / maximum • during operation / maximum • during storage / maximum • during operation / saximum	Adjustable parameters	
maximum     adjustable response value delay time (tr) / for L-tripping / with 12t characteristic     iminimum	adjustable response value setting current (Ir) / of the L-trip / with	
adjustable response value delay time (tr) / for L-tripping / with   2t characteristic   nazimum   1 s    - maximum   1 s    - maximum   150 A    - maximum   300 A    - maximum   300 A    - maximum   0 A	• minimum	15 A
characteristic  inimimum inimum inimim inimim inimim inimim inimim inimim inimim inimim inimim inimi	• maximum	15 A
emaximum adjustable response value setting current (ii) / for I-tripping eminimum adjustable response value setting current (iii) / for I-tripping eminimum adjustable setting current (InN) / for N-tripping eminimum adjustable setting current (InN) / for N-tripping eminimum adjustable setting current response value current / of the current dependent overload release product function / grounding protection No Morehantical Design product component endown adjustable response value current / of the current value product grounding protection No No Morehantical Design value gregase No No evoltage trigger No No evoltage trigger No		
adjustable response value setting current (iii) / for I-tripping	• minimum	1 s
<ul> <li>minimum</li> <li>maximum</li> <li>a00 A</li> <li>maximum</li> <li>o A</li> <li>minimum</li> <li>o A</li> <li>maximum</li> <li>o A</li> <li>maximum</li> <li>o A</li> <li>maximum</li> <li>o A</li> <li>maximum</li> <li>o A</li> <li>adjustable current response value current / of the current-dependent overload release</li> <li>product function / grounding protection</li> <li>Mo</li> <li>widehanical Design</li> <li>product component</li> <li>undervoltage release</li> <li>voltage trigger</li> <li>trip indicator</li> <li>height [in]</li> <li>5.51 in</li> <li>height [in]</li> <li>depth</li> <li>76.5 mm</li> <li>depth [in]</li> <li>depth [in]</li> <li>3.01 in</li> <li>depth [in]</li> <li>depth [in]</li></ul>	maximum	1 s
maximum 0 A adjustable setting current (InN) / for N-tripping minimum 0 A maximum 0 A adjustable current response value current / of the current- dependent overload release product function / grounding protection  Mochanical Design product component	adjustable response value setting current (li) / for I-tripping	
adjustable setting current (InN) / for N-tripping	• minimum	150 A
• minimum • maximum • dijustable current response value current / of the current-dependent overload release product function / grounding protection  Mochanical Dosign product component • undervoltage release • voltage trigger • trip indicator • trip indicator • height [in] • feight   140 mm  width [in] • depth   76.2 mm  depth [in] • depth   76.5 mm   **Connections  arrangement of electrical connectors / for main current circuit   Without connection   type of electrical connector / for main current circuit   Without connection   type of electrical connector / for main current circuit   Without connection   type of electrical connector / for main current circuit   Without connection   type of electrical connection / for main current circuit   Without connection   type of electrical connection / for main current circuit   Without connection   type of electrical connection / for main current circuit   Without connection   type of electrical connection / for main current circuit   Without connection   type of electrical connection / for main current circuit   Without connection   type of electrical connection / for main current circuit   Without connection   type of electrical connection / for main current circuit   Without connection   type of electrical connection / for main current circuit   Without connection   type of electrical connection / for main current circuit   Without connection   type of electrical connection / for main current circuit   Without connection   type of electrical connection / for main current circuit   Without connection   type of electrical connectors / for main current circuit   Without connection   type of electrical connectors / for main current circuit   Without connection   type of electrical connectors / for main current circuit   Without connection   type of electrical connectors / for main current circuit   Without connection   type of electrical connectors / for main current circuit   Without connection   type of electrical connectors / for main current circuit   type of elect	• maximum	300 A
• minimum • maximum • dijustable current response value current / of the current-dependent overload release product function / grounding protection  Mochanical Dosign product component • undervoltage release • voltage trigger • trip indicator • trip indicator • height [in] • feight   140 mm  width [in] • depth   76.2 mm  depth [in] • depth   76.5 mm   **Connections  arrangement of electrical connectors / for main current circuit   Without connection   type of electrical connector / for main current circuit   Without connection   type of electrical connector / for main current circuit   Without connection   type of electrical connector / for main current circuit   Without connection   type of electrical connection / for main current circuit   Without connection   type of electrical connection / for main current circuit   Without connection   type of electrical connection / for main current circuit   Without connection   type of electrical connection / for main current circuit   Without connection   type of electrical connection / for main current circuit   Without connection   type of electrical connection / for main current circuit   Without connection   type of electrical connection / for main current circuit   Without connection   type of electrical connection / for main current circuit   Without connection   type of electrical connection / for main current circuit   Without connection   type of electrical connection / for main current circuit   Without connection   type of electrical connection / for main current circuit   Without connection   type of electrical connectors / for main current circuit   Without connection   type of electrical connectors / for main current circuit   Without connection   type of electrical connectors / for main current circuit   Without connection   type of electrical connectors / for main current circuit   Without connection   type of electrical connectors / for main current circuit   Without connection   type of electrical connectors / for main current circuit   type of elect	adjustable setting current (InN) / for N-tripping	
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] 5.51 in  height 140 mm width [in] 3 in  width [in] 3.01 in  depth [in] 3.01 in  depth [in] 40.55 mm  Connections  arrangement of electrical connectors / for main current circuit with ye of electrical connection / for main current circuit  Auxiliary circuit  number of CO contacts / for auxiliary contacts  or development of potential protection of the front ambient temperature • during operation / minimum • during operation / minimum • during storage / minimum • during storage / maximum  out in 15 15 A  No  No  No  No  No  No  No  No  No  N		0 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  height [in] 5.51 in  height [in] 40 mm  width [in] 3 in  width [in] 40 mm  width [in]		
product component  undervoltage release voltage trigger vir in indicator height [in] height height [in] height height [in] height height [in] height	adjustable current response value current / of the current-	
product component  • undervoltage release • voltage trigger • trip indicator No height [in] height 140 mm width [in] 3 in width 76.2 mm depth [in] depth 76.5 mm  Connections  arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit witliary circuit number of CO contacts / for auxiliary contacts  product extension / optional / motor drive  **Environmental conditions**  protection class IP / on the front ambient temperature • during operation / maximum • during operation / maximum • during storage / minimum • during storage / maximum • during stor	product function / grounding protection	No
undervoltage release voltage trigger trip indicator No height [in] 5.51 in height width 140 mm width [in] 3 in width 76.2 mm depth [in] 3.01 in depth [in] Without 76.5 mm  Connections  arrangement of electrical connectors / for main current circuit Without connection  type of electrical connector / for main current circuit without extension / optional / motor drive  Product extension / optional / motor drive  Protection class IP / on the front ambient temperature during operation / minimum during storage / maximum	Mechanical Design	
undervoltage release voltage trigger trip indicator No height [in] 5.51 in height lin] 3 in width [in] 3 3 in width 76.2 mm depth [in] 3.01 in depth [in] Without connections  arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit without extension / optional / motor drive product extension / optional / motor drive protection class IP / on the front ambient temperature during operation / maximum during storage / minimum during storage / maximum during certificate of suitability / as approval for NAVAL (no combat during Yes  ectrificate of suitability / as approval for NAVAL (no combat  Yes	product component	
voltage trigger	undervoltage release	No
• trip indicator  height [in]  height   140 mm	-	No
height [in] 5.51 in height 140 mm  width [in] 3 in  width 76.2 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 Yes  Environmental conditions  protection class IP / on the front IP40  ambient temperature		No
height 140 mm  width [in] 3 in  width 76.2 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 Yes  environmental conditions  protection class IP / on the front IP40  ambient temperature  • during operation / minimum -25 °C • during operation / maximum -40 °C • during storage / minimum -40 °C • during storage / maximum -40 °C • during storage / maximum -40 °C • during storage / maximum -40 °C • certificates  certificate of suitability / as approval for NAVAL (no combat Yes	·	
width [in] 3 in  width 76.2 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 Yes  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 • Sertificates  certificate of suitability / as approval for NAVAL (no combat	•	
width 76.2 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  Auxiliary circuit  number of CO contacts / for auxiliary contacts 0  Accessories  product extension / optional / motor drive Yes  Environmental conditions  protection class IP / on the front IP40  ambient temperature  • during operation / maximum  • during storage / minimum  • during storage / minimum  • during storage / maximum  • Ves	-	
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  product extension / optional / motor drive Yes  invironmental 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 -40 °C  • during storage / maximum -40 °C  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 Yes  Environmental conditions  protection class IP / on the front IP40  ambient temperature  • during operation / maximum -25 °C  • during storage / minimum -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  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 / maximum  • 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		
arrangement of electrical connectors / for main current circuit  type of electrical connection / for main current circuit  Auxiliary circuit  number of CO contacts / for auxiliary contacts  product extension / optional / motor drive  Environmental conditions  protection class IP / on the front  ambient temperature  • during operation / minimum  • during operation / maximum  oduring storage / minimum  -40 °C  • during storage / maximum  80 °C  Certificates  certificate of suitability / as approval for NAVAL (no combat  Yes	·	7 U.J HIIII
type of electrical connection / for main current circuit  Auxiliary circuit  number of CO contacts / for auxiliary contacts  0  Accessories  product extension / optional / motor drive  Environmental conditions  protection class IP / on the front  ambient temperature  • during operation / maximum  • during operation / maximum  -40 °C  • during storage / minimum  • during storage / maximum  80 °C  Certificates  certificate of suitability / as approval for NAVAL (no combat  Yes		MEAL
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 / maximum  • during storage / minimum  • during storage / maximum  • during storage / maximum  • certificates  certificate of suitability / as approval for NAVAL (no combat  10  0  10  10  10  10  10  10  10  10		
number of CO contacts / for auxiliary contacts  Accessories  product extension / optional / motor drive  Protection class IP / on the front  ambient temperature  • during operation / minimum  -25 °C  • during operation / maximum  • during storage / minimum  -40 °C  • during storage / maximum  80 °C  Certificates  certificate of suitability / as approval for NAVAL (no combat  Yes	••	vvitnout
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  • during storage / maximum  • conditions  P40  Certificates  certificate of suitability / as approval for NAVAL (no combat  Yes		
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  80 °C  Certificates  certificate of suitability / as approval for NAVAL (no combat  Yes	·	0
protection class IP / on the front IP40  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		
protection class IP / on the front  ambient temperature  • during operation / minimum  • during operation / maximum  • during storage / minimum  • during storage / maximum  • curing storage / maximum  • during storage / maximum  • during storage / maximum  • during storage / maximum  • to combat  P40  Certificates  certificate of suitability / as approval for NAVAL (no combat  Yes	product extension / optional / motor drive	Yes
ambient temperature  • during operation / minimum  • during operation / maximum  70 °C  • during storage / minimum  • during storage / maximum  80 °C  Certificates  certificate of suitability / as approval for NAVAL (no combat  Yes	Environmental conditions	
<ul> <li>during operation / minimum</li> <li>during operation / maximum</li> <li>0 °C</li> <li>during storage / minimum</li> <li>40 °C</li> <li>during storage / maximum</li> <li>Certificates</li> <li>certificate of suitability / as approval for NAVAL (no combat</li> </ul> Yes	protection class IP / on the front	IP40
during operation / maximum     during storage / minimum     during storage / maximum     80 °C  Certificates  certificate of suitability / as approval for NAVAL (no combat Yes	ambient temperature	
• during storage / minimum     • during storage / maximum     80 °C  Certificates  certificate of suitability / as approval for NAVAL (no combat  Yes	during operation / minimum	-25 °C
<ul> <li>during storage / minimum</li> <li>during storage / maximum</li> <li>80 °C</li> <li>Certificates</li> <li>certificate of suitability / as approval for NAVAL (no combat</li> <li>Yes</li> </ul>	during operation / maximum	70 °C
during storage / maximum     80 °C  Certificates  certificate of suitability / as approval for NAVAL (no combat  Yes		-40 °C
Certificates  certificate of suitability / as approval for NAVAL (no combat  Yes		80 °C
certificate of suitability / as approval for NAVAL (no combat		
		Vac

Confirmation









Miscellaneous

General Product Approval

EMC

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping









Type Test Certificates/Test Report



Marine / Shipping

other



<u>Miscellaneous</u>

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)

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5195-4EC31-1AAC

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

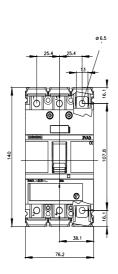
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5195-4EC31-1AA0

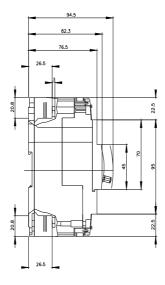
**CAx-Online-Generator** 

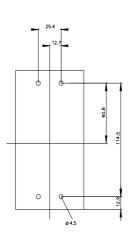
http://www.siemens.com/cax

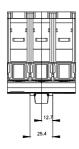
**Tender specifications** 

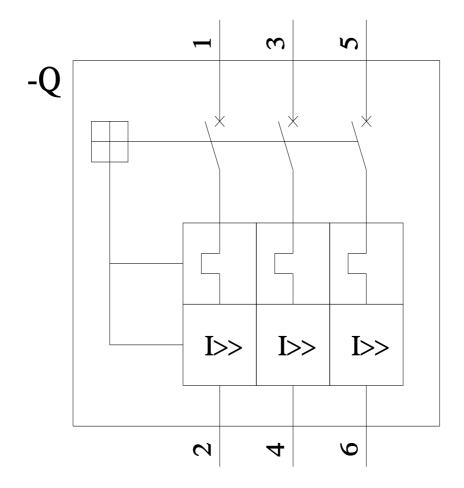
http://www.siemens.com/specifications

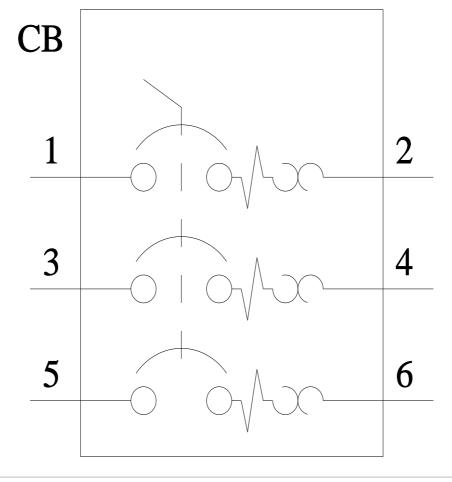












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3VA51954EC311AA0