## 3VA1450-5MH32-0AA0

**Data sheet** 



circuit breaker 3VA1 IEC Frame 630 breaking capacity class M Icu=55 kA @ 415 V 3-pole, starter protection TM120M, AM, In=500 A without overload protection short-circuit protection Ii=5...10 x In nut keeper kit

Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
design of the product	Starter protection
design of the overcurrent release	TM120M
protection function of the overcurrent release	T. Control of the Con
number of poles	3
General technical data	
insulation voltage / rated value	800 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	122.7 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	40.9 W
mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	4 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	3 000
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No
ground-fault monitoring version	Without
product function	
<ul> <li>communication function</li> </ul>	No
<ul> <li>other measurement function</li> </ul>	No
Net Weight	4.949 kg
Current	
operational current	
• at 40 °C	500 A
● at 45 °C	500 A
● at 50 °C	500 A
● at 55 °C	488 A
● at 60 °C	476 A
● at 65 °C	464 A
• at 70 °C	452 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	M
maximum short-circuit current breaking capacity (Icu)	
● at 240 V	85 kA
• at 415 V	55 kA
• at 440 V	55 kA
● at 500 V	36 kA
● at 690 V	7 kA
operating short-circuit current breaking capacity (Ics)	

* all 40 V		
and 460 V and 600 V between the state of th	• at 240 V	85 kA
e at 500 V 5 6 kA shot-circuit current making capacity (forn)  • at 440 V 121 kA • at 440 V 121 kA • at 440 V 121 kA • at 600 V 75.6 kA • at 600 V 11.9 kA  • at 600 V 11.9 kA  • at 600 V 11.9 kA  • at 600 V 11.9 kA  • at 600 V 11.9 kA  • ad 600 V 11.9 kA  • adjustable parameters  adjust	• at 415 V	55 kA
** at 280 V	• at 440 V	55 kA
short-circuit current making capacity (tern)  • at 240 V • at 415 V • at 440 V • at 440 V • at 500 V • at 600	● at 500 V	36 kA
e at 240 V 121 kA 121 k	● at 690 V	5 kA
e at 415 V 121 kA 145 V 121 kA 145 V 121 kA 145 V 145 kO V 75.6 kA 145 V 151 kA 145 V 145 kO V 75.6 kA 145 V 151 kA 15	short-circuit current making capacity (Icm)	
e at 490 V e at 500 V 11.9 AN for a witching power values in DC networks, see the 3VA molded case circuit breaker device manual; limit to be found under Service & Support in the last disapter.  Adjustable parameters  adjustable parameters  adjustable centing current (In) / for I-tripping e-minimum e-maximum 500 A parameters  e-minimum 500 A minimum 500 A product function / grounding protection No Mochanical Design  product component e-under-ordinge release voltage triggaer No religit [in] 9.76 in height	• at 240 V	187 kA
e at 590 V e at 690 V design of short-circuit profection  For awitching power values in DC networks, see the 3VA moided case circuit breaker device manual, link to be found under Service & Support in the least displays to the season of the	• at 415 V	121 kA
design of short-circuit protection  for switching power values in ICC networks, see the 3VA molded case circuit breaker device manual; link to be found under Service & Support in the last chapter  adjustable response value setting current (II) / for I-tripping  minimum  maximum  ma	• at 440 V	121 kA
design of short-circuit protection   For exitiching prover values in DC networks, see the 3VA molded case circuit breaker device manual; link to be found under Service & Support in the last chapter		
breaker device manual; link to be found under Service & Support in the last chapter  Adjustable parameters  • minimum  • maximum  • garagement of electrical connectors / for main current circuit  • round keeper kit on both ends  • ype of electrical connection / for main current circuit  • ype of electrical connection / for main current circuit  • ype of electrical connection / for main current circuit  • ype of electrical connection / for main current circuit  • ype of electrical connection / for main current circuit  • ype of electrical connection / for main current circuit  • ype of electrical connection / for main current circuit  • ype of electrical connection / for main current circuit  • maximum  • garage of the connection / for main current circuit  • maximum  • garagement of electrical connection / for main current circuit  • garagement of electrical connection / for main current circuit  • garagement of electrical connection / for main current circuit  • garagement of electrical connection / for main current c		
adjustable response value setting current (iii) / for I-tripping  • minimum  5 000 A  • maximum  6 000 A  • maximum  • undervoltage release • voltage trigger • No • Voltage trigger • Voltage trigger • No • Voltage trigger • No • Voltage trigger • Voltager • Voltage trigger • No • No • No • No • Voltage trigger • No	design of short-circuit protection	breaker device manual; link to be found under Service & Support in the last
maximum 5 000 A adjustable setting current (inN) / for N-tripping minimum 500 A maximum 500 A product function / grounding protection No Micetamical Design product organical Design over the product organical Design organical Design product organical Design product organical Design product organical Design organical Desig	Adjustable parameters	
e maximum  adjustable setting current (inN) / for N-tripping e minimum e maximum 500 A  500 A  500 A  500 A  500 A  500 A  600 A	adjustable response value setting current (li) / for I-tripping	
adjustable setting current (InN) / for N-tripping  • minimum  500 A  • maximum  500 A  product function / grounding protection  No  Mechanical Dosign  Product component  • undervoltage release  • voltage trigger  No  • trip indicator  No  height [In]  height 248 mm  width [in] 5.43 in  width [in] 4.33 in  depth [in] 4.33 in  depth [in] 4.33 in  depth [in] 4.33 in  depth [in] 5.40 in	• minimum	2 500 A
minimum     son A     product function / grounding protection     No     Mochanical Design     product component	• maximum	5 000 A
• maximum product function / grounding protection No Mechanical Design product component • undervoltage release • voltage frigger • trip indicator height [in] height [in] - 5.43 in width [in] - 4.33 in depth [in] - 4.35 in depth [in] - 5.45 in width - 5.46 in width - 5.47 in width - 5.48 in width - 5.48 in width - 5.49 in width - 5.49 in width - 5.40 in width - 6.40 in width - 6.4	adjustable setting current (InN) / for N-tripping	
product function / grounding protection  Mechanical Design  product component  • undervoltage release • voltage trigger • trip indicator  height [in] 9.76 in  height [in] 9.76 in  height [in] 9.76 in  height 138 mm  depth 138 mm  depth in 4.33 in  depth 110 mm  Connections  arrangement of electrical connectors / for main current circuit type of electrical connectors / for main current circuit type of connectable conductor cross-sections / for flat-bar terminal connection / minimum  type of connectable conductor cross-sections / for flat-bar terminal connection / minimum  type of connectable conductor cross-sections / for flat-bar terminal connection / minimum  type of connectable conductor cross-sections / for flat-bar terminal connection / minimum  type of connectable conductor cross-sections / for flat-bar terminal connection / minimum  terminal connection / minimum  Auxiliary circuit  number of CO contacts / for auxiliary contacts  Accessories  product extension / optional / motor drive  Environmental conditions  product extension / optional / motor drive  e during operation / minimum  during operation / minimum  during storage / minimum  du	• minimum	500 A
Mechanical Dosign product component  • undervoltage release • voltage trigger • voltager • voltage trigger • voltager • voltage trigger • voltage trigger • voltager • voltage	maximum	500 A
product component  • undervoltage release • voltage trigger • trip indicator No height [in] 9.76 in height 248 mm width [in] 5.43 in width 138 mm depth [in] 4.33 in depth 110 mm  Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit type of connectable conductor cross-sections / for flat-bar terminal connection / minimum design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the top of the switch (N, 2, 4, 6)  Accessories product extension / optional / motor drive • during operation / minimum • during storage / minimum • during poperation / maximum • during storage / minimum • during poperation / maximum • during poperation / maximum • during poperation / maximum • during poperation / minimum • during poperation / maximum • during storage / minimum • during poperation / maximum • during poperation / minimum • during poperation / minimum • during poperation / maximum • during poperation   doze or / during operation / do / do / do / doze / during operation / do / do / do / doze / during operation /		No
undervoltage release voltage trigger No voltage trigger No height (In) height (In) 5.48 mm width (In) 5.48 mm width (In) 4.33 in depth (In) 4.33 in depth (In) Connections  arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit type of electrical connection / for finat-bar terminal connectable conductor cross-sections / for flat-bar terminal connectable conductor cross-sections / for flat-bar terminal connectable or ductor cross-sections / for flat-bar terminal connectable conductor cross-sections / for flat-bar terminal connectable or ductor cross-sections / for flat-bar terminal connection / maximum  design of the surface / of the connections / on the top of the switch (N, 2, 4, 6)  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 stora	Mechanical Design	
• voltage trigger  • trip indicator  No height [n] 9,76 in height 248 mm  width [n] 5,43 in depth [n] 4,33 in depth [n] 4,30 in design of ine surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)  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 during operation / minimum 2,25 °C 4 during operation / minimum 4 during storage / minimum 4 during storage / minimum 8 or C Environmental footprint Global Warming Potential [CO2 eq] / during manufacturing 23,9 kg Global Warming Potential [CO2 eq] / during manufacturing 15,0 in the fore in the fore in the ference code / according to let Ce 13/46;2 Q	product component	
• trip indicator height [in] height   248 mm  width [in]   5.43 in  width   138 mm  depth [in]   4.33 in  depth [in]   4.33 in  depth   110 mm  Connections  arrangement of electrical connectors / for main current circuit type of electrical connector / for main current circuit   type of electrical connection / for main current circuit   nut keeper kit on both ends   type of connectable conductor cross-sections / for flat-bar terminal connection / minimum   20 x 1 mm     type of connectable conductor cross-sections / for flat-bar terminal connection / maximum   35x 10 mm     design of the surface / of the connections / on the top of the switch (N. 1, 3. 5)     design of the surface / of the connections / on the bottom of the switch (N. 2, 4, 6)     Auxiliary circuit   number of CO contacts / for auxiliary contacts   0     Accessories   product extension / optional / motor drive   Yes	undervoltage release	No
height [in] 9.76 in height 248 mm width [in] 5.43 in width 138 mm depth [in] 4.33 in depth [in] 4.33 in depth [in] 4.33 in depth 110 mm  Connections  arrangement of electrical connectors / for main current circuit Front terminal type of electrical connection / for main current circuit nut keeper kit on both ends lype of connectable conductor cross-sections / for flat-bar terminal connection / minimum type of connectable conductor cross-sections / for flat-bar terminal connection / minimum the system of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front IP40 ambient temperature  • during operation / maximum • during storage / minimum • during storage / minimum • during storage / minimum • during storage / maximum  Global Warming Potential [CO2 eq] / during amanufacturing Flow of the Control of the Contro	<ul> <li>voltage trigger</li> </ul>	No
height 248 mm  width [in] 5.43 in  depth [in] 4.33 in  depth [in] 4.33 in  depth 110 mm  Connections  arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit nut keeper kit on both ends  type of connectable conductor cross-sections / for flat-bar terminal connection / minimum  type of connectable conductor cross-sections / for flat-bar terminal connection / maximum  design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)  design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)  Auxillary circuit number of CO contacts / for auxiliary contacts  product extension / optional / motor drive  Environmental conditions  protection class IP / on the front IP40  ambient temperature  • during operation / minimum  • during operation / minimum  • during operation / maximum  • during storage / minimum  • during storage / maximum  For C  Global Warming Potential [CO2 eq] / total A73 kg  Global Warming Potential [CO2 eq] / during operation  450 kg  feference code / according to IEC 81346-2  Q	trip indicator	No
width [in] 5.43 in  width 138 mm  depth 110 mm  Connections  arrangement of electrical connectors / for main current circuit 12pe of electrical connection / for main current circuit 12pe of electrical connection / for main current circuit 12pe of electrical connection / for main current circuit 12pe of electrical connection / for main current circuit 12pe of connectable conductor cross-sections / for flat-bar 12pe of connection / maximum 12pe of connection / on the bottom of the 12pe of connection / maximum 12pe of CO contacts / for auxiliary contacts 12pe of contacts 1	height [in]	9.76 in
width 138 mm depth (in) 4.33 in depth 110 mm  Connections  arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit nut keeper kit on both ends type of connectable conductor cross-sections / for flat-bar terminal connection / minimum terminal connection / minimum terminal connection / minimum design of the surface / of the connections / on the top of the switch (N, 1.3.5) design of the surface / of the connections / on the bottom of the switch (N, 2.4.6)  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	height	248 mm
depth   110 mm   110	width [in]	5.43 in
depth 110 mm  Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit nut keeper kit on both ends type of connectable conductor cross-sections / for flat-bar terminal connection / minimum 20 x 1 mm  type of connectable conductor cross-sections / for flat-bar terminal connection / minimum 35 x 10 mm  type of connectable conductor cross-sections / for flat-bar terminal connection / maximum 4 six 10 mm  design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)  design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)  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 operation / maximum - 40 °C  • during storage / maximum - 40 °C  • during storage / maximum - 40 °C  • during storage / maximum - 40 °C  Solobal Warming Potential [CO2 eq] / total   473 kg  Global Warming Potential [CO2 eq] / during operation   450 kg  Global Warming Potential [CO2 eq] / during operation - 450 kg  Global Warming Potential [CO2 eq] / during operation - 450 kg  Global Warming Potential [CO2 eq] / during operation - 450 kg  Global Warming Potential [CO2 eq] / during operation - 450 kg  Global Warming Potential [CO2 eq] / during operation - 450 kg  Global Warming Potential [CO2 eq] / during operation - 450 kg  Global Warming Potential [CO2 eq] / during operation - 450 kg  Global Warming Potential [CO2 eq] / during operation - 450 kg  Global Warming Potential [CO2 eq] / during operation - 450 kg	width	138 mm
arrangement of electrical connections / for main current circuit type of electrical connection / for main current circuit type of olectrical connection / for main current circuit type of connectable conductor cross-sections / for flat-bar terminal connection / minimum type of connectable conductor cross-sections / for flat-bar terminal connection / minimum  type of connectable conductor cross-sections / for flat-bar terminal connection / minimum  design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)  design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)  Auxillary circuit number of CO contacts / for auxiliary contacts  Accessories  product extension / optional / motor drive  Yes  Environmental conditions  protection class IP / on the font ambient temperature  • during operation / minimum  - 25 °C • during operation / minimum  • during storage / minimum		4.33 in
arrangement of electrical connectors / for main current circuit  type of electrical connection / for main current circuit  type of connectable conductor cross-sections / for flat-bar terminal connection / minimum  type of connectable conductor cross-sections / for flat-bar terminal connection / maximum  type of connectable conductor cross-sections / for flat-bar terminal connection / maximum  design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)  design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)  Auxiliary circuit  number of CO contacts / for auxiliary contacts  Accessories  product extension / optional / motor drive  Environmental conditions  protection class IP / on the front	·	110 mm
type of electrical connection / for main current circuit  type of connectable conductor cross-sections / for flat-bar terminal connection / minimum  type of connectable conductor cross-sections / for flat-bar terminal connection / minimum  design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)  design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)  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  during operation / maximum  during storage / minimum  during storage / maximum  eduring storage / maximum  Global Warming Potential [CO2 eq] / during operation  during connection of the surface / operation / during operation  during reference code / according to IEC 81346-2  Q		
type of connectable conductor cross-sections / for flat-bar terminal connection / minimum  type of connectable conductor cross-sections / for flat-bar terminal connection / maximum  design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)  design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)  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 / maximum  - 25 °C  • during operation / maximum  - 40 °C  • during storage / minimum  • during storage / minimum  • during storage / maximum  80 °C  Environmental footprint  Global Warming Potential [CO2 eq] / total  Global Warming Potential [CO2 eq] / during operation		
terminal connectable conductor cross-sections / for flat-bar terminal connection / maximum  design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)  design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)  design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)  Auxiliary circuit  number of CO contacts / for auxiliary contacts  O  Accessories  product extension / optional / motor drive  Environmental conditions  protection class IP / on the front  ambient temperature  during operation / minimum  -25 °C  during operation / maximum  70 °C  during storage / maximum  -40 °C  during storage / maximum  80 °C  Environmental footprint  Global Warming Potential [CO2 eq] / during manufacturing  23.9 kg  Global Warming Potential [CO2 eq] / during manufacturing  Global Warming Potential [CO2 eq] / during operation  450 kg  Global Warming Potential [CO2 eq] / after end of life  -2.9 kg  reference code / according to IEC 81346-2  Q	- 71	
terminal connection / maximum  design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)  design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)  Auxiliary circuit  number of CO contacts / for auxiliary contacts  Description of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)  Accessories  product extension / optional / motor drive  Environmental conditions  protection class IP / on the front  ambient temperature  during operation / minimum  -25 °C  during operation / maximum  70 °C  during storage / minimum  40 °C  during storage / minimum  80 °C  Environmental footprint  Global Warming Potential [CO2 eq] / total  Global Warming Potential [CO2 eq] / during manufacturing  Global Warming Potential [CO2 eq] / during operation  450 kg  Global Warming Potential [CO2 eq] / after end of life  -2.9 kg  reference code / according to IEC 81346-2	terminal connection / minimum	
switch (N, 1, 3, 5)  design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)  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  - 25 °C  • during operation / maximum  - 40 °C  • during storage / minimum  - 40 °C  • during storage / maximum  Silver  S	terminal connection / maximum	
switch (N, 2, 4, 6)  Auxiliary circuit  number of CO contacts / for auxiliary contacts  Description of CO contacts / for auxiliary contacts  product extension / optional / motor drive  Environmental conditions  protection class IP / on the front  ambient temperature  during operation / minimum  current of CC  during operation / maximum  during storage / minimum  during storage / maximum  storage / maximum  during storage / maximum  storage / maximum  during storage / maximum  durin	switch (N, 1, 3, 5)	
Auxiliary circuit  number of CO contacts / for auxiliary contacts  Accessories  product extension / optional / motor drive  Environmental conditions  protection class IP / on the front     ambient temperature      • during operation / minimum     -25 °C      • during operation / maximum     70 °C      • during storage / minimum     -40 °C      • during storage / maximum     80 °C  Environmental footprint  Global Warming Potential [CO2 eq] / total  Global Warming Potential [CO2 eq] / during manufacturing  Global Warming Potential [CO2 eq] / during operation  450 kg  Global Warming Potential [CO2 eq] / after end of life     -2.9 kg  reference code / according to IEC 81346-2  Q		Silvei
number of CO contacts / for auxiliary contacts  Accessories  product extension / optional / motor drive  Environmental conditions  protection class IP / on the front  ambient temperature  • during operation / minimum  -25 °C  • during operation / maximum  -40 °C  • during storage / minimum  -40 °C  • during storage / maximum  80 °C  Environmental footprint  Global Warming Potential [CO2 eq] / total  Global Warming Potential [CO2 eq] / during manufacturing  Global Warming Potential [CO2 eq] / during operation  450 kg  Global Warming Potential [CO2 eq] / after end of life  -2.9 kg  reference code / according to IEC 81346-2  Q		
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 / minimum  • during storage / minimum  • during storage / maximum  80 °C  Environmental footprint  Global Warming Potential [CO2 eq] / total  Global Warming Potential [CO2 eq] / during manufacturing  Global Warming Potential [CO2 eq] / during operation  Global Warming Potential [CO2 eq] / during operation  Global Warming Potential [CO2 eq] / during operation  450 kg  Global Warming Potential [CO2 eq] / after end of life  -2.9 kg  reference code / according to IEC 81346-2  Q		0
protection class IP / on the front ambient temperature • during operation / minimum -25 °C • during operation / maximum 70 °C • during storage / minimum -40 °C • during storage / maximum 80 °C  Environmental footprint  Global Warming Potential [CO2 eq] / total Global Warming Potential [CO2 eq] / during manufacturing 23.9 kg Global Warming Potential [CO2 eq] / during operation 450 kg Global Warming Potential [CO2 eq] / after end of life -2.9 kg reference code / according to IEC 81346-2 Q	·	
protection class IP / on the front ambient temperature • during operation / minimum -25 °C • during operation / maximum 70 °C • during storage / minimum -40 °C • during storage / maximum 80 °C  Environmental footprint  Global Warming Potential [CO2 eq] / total Global Warming Potential [CO2 eq] / during manufacturing 23.9 kg Global Warming Potential [CO2 eq] / during operation 450 kg Global Warming Potential [CO2 eq] / after end of life -2.9 kg reference code / according to IEC 81346-2 Q	product extension / optional / motor drive	Yes
protection class IP / on the front  ambient temperature  • during operation / minimum  -25 °C  • during operation / maximum  70 °C  • during storage / minimum  -40 °C  • during storage / maximum  80 °C  Environmental footprint  Global Warming Potential [CO2 eq] / total  Global Warming Potential [CO2 eq] / during manufacturing  Global Warming Potential [CO2 eq] / during operation  Global Warming Potential [CO2 eq] / after end of life  -2.9 kg  reference code / according to IEC 81346-2  Q		
ambient temperature  • during operation / minimum  -25 °C  • during operation / maximum  70 °C  • during storage / minimum  • during storage / maximum  80 °C  Environmental footprint  Global Warming Potential [CO2 eq] / total  Global Warming Potential [CO2 eq] / during manufacturing  Global Warming Potential [CO2 eq] / during operation  Global Warming Potential [CO2 eq] / after end of life  7.9 kg  Global Warming Potential [CO2 eq] / after end of life  7.9 kg  reference code / according to IEC 81346-2  Q	protection class IP / on the front	IP40
during operation / maximum     during storage / minimum     during storage / maximum     80 °C      during storage / maximum     80 °C      Environmental footprint  Global Warming Potential [CO2 eq] / total     Global Warming Potential [CO2 eq] / during manufacturing     Global Warming Potential [CO2 eq] / during operation     Global Warming Potential [CO2 eq] / during operation     Global Warming Potential [CO2 eq] / after end of life     reference code / according to IEC 81346-2  Q	ambient temperature	
<ul> <li>during storage / minimum</li> <li>during storage / maximum</li> <li>80 °C</li> </ul> Environmental footprint Global Warming Potential [CO2 eq] / total <ul> <li>473 kg</li> <li>Global Warming Potential [CO2 eq] / during manufacturing</li> <li>23.9 kg</li> </ul> Global Warming Potential [CO2 eq] / during operation <ul> <li>450 kg</li> </ul> Global Warming Potential [CO2 eq] / after end of life <ul> <li>-2.9 kg</li> </ul> reference code / according to IEC 81346-2 <ul> <li>Q</li> </ul>	during operation / minimum	-25 °C
● during storage / maximum 80 °C  Environmental footprint  Global Warming Potential [CO2 eq] / total 473 kg  Global Warming Potential [CO2 eq] / during manufacturing 23.9 kg  Global Warming Potential [CO2 eq] / during operation 450 kg  Global Warming Potential [CO2 eq] / after end of life -2.9 kg  reference code / according to IEC 81346-2 Q	<ul> <li>during operation / maximum</li> </ul>	70 °C
Environmental footprint  Global Warming Potential [CO2 eq] / total 473 kg  Global Warming Potential [CO2 eq] / during manufacturing 23.9 kg  Global Warming Potential [CO2 eq] / during operation 450 kg  Global Warming Potential [CO2 eq] / after end of life -2.9 kg  reference code / according to IEC 81346-2 Q	during storage / minimum	-40 °C
Global Warming Potential [CO2 eq] / total 473 kg Global Warming Potential [CO2 eq] / during manufacturing 23.9 kg Global Warming Potential [CO2 eq] / during operation 450 kg Global Warming Potential [CO2 eq] / after end of life -2.9 kg reference code / according to IEC 81346-2 Q	<ul><li>during storage / maximum</li></ul>	80 °C
Global Warming Potential [CO2 eq] / during manufacturing  Global Warming Potential [CO2 eq] / during operation  450 kg  Global Warming Potential [CO2 eq] / after end of life  reference code / according to IEC 81346-2  Q	Environmental footprint	
Global Warming Potential [CO2 eq] / during operation 450 kg  Global Warming Potential [CO2 eq] / after end of life -2.9 kg  reference code / according to IEC 81346-2 Q	Global Warming Potential [CO2 eq] / total	473 kg
Global Warming Potential [CO2 eq] / after end of life -2.9 kg reference code / according to IEC 81346-2 Q	Global Warming Potential [CO2 eq] / during manufacturing	23.9 kg
reference code / according to IEC 81346-2 Q	Global Warming Potential [CO2 eq] / during operation	450 kg
	Global Warming Potential [CO2 eq] / after end of life	-2.9 kg
Approvals / Certificates	reference code / according to IEC 81346-2	Q
	Approvals / Certificates	

## **General Product Approval**







Confirmation





**General Product Approval** 

EMV

**Test Certificates** 

Marine / Shipping

Miscellaneous





Miscellaneous

Confirmation

Special Test Certificate



Marine / Shipping





other

**Miscellaneous** 

**Miscellaneous** 

## Environment



Environmental Confirmations

Environmental Confirmations

## Further information

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=3VA1450-5MH32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA1450-5MH32-0AA0

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

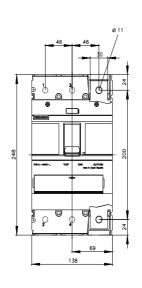
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA1450-5MH32-0AA0

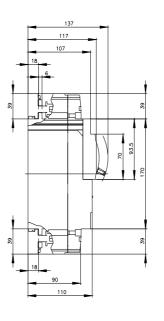
CAx-Online-Generator

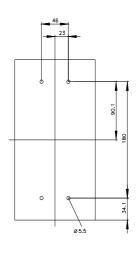
http://www.siemens.com/cax

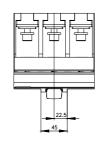
Tender specifications

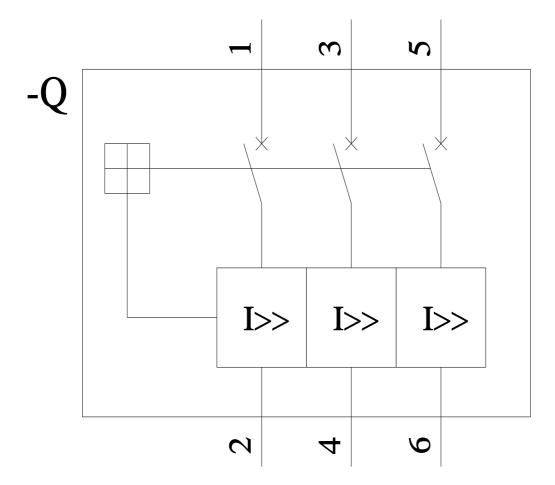
http://www.siemens.com/specifications











last modified: 10/24/2024 🖸

