## 3VA1220-6MH32-0AA0

**Data sheet** 



circuit breaker 3VA1 IEC Frame 250 breaking capacity class H Icu=70 kA @ 415 V 3-pole, starter protection TM120M, AM, In=200 A without overload protection short-circuit protection Ii=6...14 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   | I                           |
| 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   | 42 W                        |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole            | 14 W                        |
| mechanical service life (operating cycles) / typical   | 20 000                      |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V                                       | 8 000                       |
| electrical endurance (operating cycles) / at AC-1 / at 690 V   | 5 400                       |
| product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof | No                          |
| ground-fault monitoring version  | Without                     |
| product function   |                             |
| <ul> <li>communication function</li> </ul>   | No                          |
| other measurement function   | No                          |
| Net Weight   | 1.604 kg                    |
| Current  |                             |
| operational current  |                             |
| • at 40 °C   | 200 A                       |
| • at 45 °C   | 200 A                       |
| • at 50 °C   | 200 A                       |
| ● at 55 °C   | 194 A                       |
| • at 60 °C   | 188 A                       |
| • at 65 °C   | 182 A                       |
| • at 70 °C   | 176 A                       |
| Switching capacity according to IEC 60947  |                             |
| switching capacity class of the circuit breaker  | Н                           |
| maximum short-circuit current breaking capacity (Icu)  |                             |
| • at 240 V   | 100 kA                      |
| • at 415 V   | 70 kA                       |
| • at 440 V   | 36 kA                       |
| • at 500 V   | 15 kA                       |
| • at 690 V   | 3 kA                        |
| operating short-circuit current breaking capacity (Ics)  |                             |

| e 44 40 V e 16 500 V e 16 16 0V e 16 0V e 16 16 0 | • at 240 V  | 100 kA  |
|--|---|---|
| • nt 500 V   3 kA       | • at 415 V  | 70 kA   |
| a de 900 V short-circuit current making capacity (lcm)  a de 145 V at 440 V at 440 V at 440 V at 440 V beta 400 V beta 400 V at 800 V beta 800 V design of short-circuit protection  design of short-circuit protection  design of short-circuit protection  for switching power values in DC networks, see the 3VA moded case circuit breaker device manual; link to be found under Service & Support in the last chapter  Adjustable parameters  adjustable parameters  adjustable parameters  adjustable parameters  adjustable parameters  adjustable persponse value setting current (II) / for I-tripping minimum minim  | • at 440 V  | 36 kA   |
| short-circuit current making capacity (lom)  • at 240 V • at 415 V • at 440 V • at 450 V • at 890 V • at 890 V • design of short-circuit protection  • provisiting power values in DC networks, see the 3VA moided case circuit breaker device manual; link to be found under Service & Support in the last chapter  **Adjustable parameters**  adjustable response value setting current (li) / for I-tripping • iminimm • maximum • maximum • maximum • maximum 200 A • maximum 200 A • maximum 200 A • moinimum • during operation / minimum • during operation / mini | ● at 500 V  | 10 kA   |
| e at 240 V e at 440 V e at 440 V e at 500 V design of short-circuit protection  for switching power values in DC networks, see the 3VA molded case circuit breaker device manual; link to be found under Service & Support in the last chapter  Adjustable parameters ad | • at 690 V  | 3 kA  |
| e at 445 V e at 440 V e at 500 V  | short-circuit current making capacity (Icm)                     |   |
| at 440 V at 500 V at 500 V 4,5 KA 30 kA 30 kA 4,5 KA Consider of short-circuit protection  brown and short-circuit protection  characteristic protection  c  | • at 240 V  | 220 kA  |
| e at 500 V 4.5 kA  4.5 | • at 415 V  | 154 kA  |
| e at 890 V  design of short-circuit protection  for switching power values in DC networks, see the 3VA molded case circuit breaker device manual; link to be found under Service & Support in the lisst chapter  adjustable parameters  amaximum  amaximum  amaximum  amaximum  amaximum  and adjustable parameters  adjustable p | • at 440 V  | 75.6 kA   |
| design of short-circuit protection  For switching power values in DC networks, see the 3VA molated case circuit breaker device manual; link to be found under Service & Support in the last chapter  Adjustable parameters  adjustable response value setting current (II) / for I-tripping  minimum  maximum  2800 A  2900 A  dijustable setting current (InN) / for N-tripping  minimum  200 A  maximum  200 A  maximum  200 A  maximum  200 A  maximum  200 A  molation / grounding protection  No  Machanical Design  product component  undervoltage release  voltage trigger  vitip indicator  No  height [in]  depth [i | ● at 500 V  | 30 kA   |
| breaker device manual; link to be found under Service & Support in the last chapter  adjustable parameters  adjustable response value setting current (ii) / for I-tripping  | • at 690 V  | 4.5 kA  |
| adjustable response value setting current (ii) / for I-tripping  minimum  maximum  2 800 A  200 A  200 A  adjustable setting current (inN) / for N-tripping  minimum  200 A  maximum  200 A  maximum  200 A  maximum  200 A  maximum  200 A  modesharical Design  product component  undervoltage release  voltage trigger  vitin indicator  No  No  height (in)  188 mm  width (in)  4.13 in  width  105 mm  depth (in)  depth (in)  2.76 in  depth  70 mm  Connections  arrangement of electrical connectors / for main current circuit  type of electrical connection / for main current circuit  ype of electrical connection / for main current circuit  ype of electrical connection / for main current circuit  prodonnectable conductor cross-sections / for flat-bar terminal connection / minimum  yped 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, 1, 3, 5)  Auxiliary circuit  number of CO contacts / for auxiliary contacts  0  Auxiliary circuit  number of CO contacts / for auxiliary contacts  0  Auxiliary circuit  number of CO contacts / for auxiliary contacts  0  Auxiliary circuit  number of CO contacts / for auxiliary contacts  0  40 'Ce  during storage / minimum  during storage / maximum  reference code / according to tel EC 81346-2  Q   | design of short-circuit protection                              | breaker device manual; link to be found under Service & Support in the last |
| minimum 2800 A   | Adjustable parameters   |   |
| maximum     adjustable setting current (inN) / for N-tripping     minimum     200 A     maximum     200 A     product function / grounding protection     No     Mechanical Dosign     product component     undervoltage release     No     voltage trigger     No     voltage trigger     No     indicator     No height [in]     6.22 in height     width [in]     4.13 in width     105 mm depth [in]     2.76 in depth [in]     2.76 in depth [in]     2.76 in yeo 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 / 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     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     Type of connectable conductor cross-sections / for flat-bar terminal connection / minimum     Type of connectable conductor cross-sections / for flat-bar terminal connection / minimum     Vealuring storage / maximum     during storage / minimum     during stor      | adjustable response value setting current (li) / for I-tripping |   |
| adjustable setting current (inN) / for N-tripping  | • minimum   | 1 200 A   |
| minimum product function / grounding protection  Mechanical Design  product component  undervoltage release voltage trigger trip indicator height [in] height [in] height [in]  depth [in]  despth [in]  depth [i  | • maximum   | 2 800 A   |
| minimum product function / grounding protection  Mechanical Design  product component  undervoltage release voltage trigger trip indicator height [in] height [in] height [in]  depth [in]  despth [in]  depth [i  | adjustable setting current (InN) / for N-tripping               |   |
| product function / grounding protection  Mechanical Design  product component  • undervoltage release • voltage trigger • trip indicator No height [in] 6.22 in height 158 mm width [in] 4.13 in width 105 mm depth [in] 2.76 in depth [in] 2.76 in depth [in] 4.3 in width 105 mm depth [in] 4.3 in width 105 mm depth [in] 3.70 mm  Connections  arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit 1ype of electrical connection / for main current circuit 1ype of connectable conductor cross-sections / for flat-bar terminal connection / main/mm 1ype of connectable conductor cross-sections / for flat-bar terminal connection / main/mm 1ype of connectable conductor cross-sections / for flat-bar terminal connection / for main current circuit 1ype of connectable conductor cross-sections / for flat-bar terminal connection / main/mm 1ype of connectable conductor cross-sections / for flat-bar terminal connection / for main current circuit 1ype of connectable conductor cross-sections / for flat-bar terminal connection / main/mm 1ype of connectable conductor cross-sections / for flat-bar terminal connection / for main current circuit 25 x 8 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)  Accessories  product extension / optional / motor drive  Yes  Environmental conditions  protection class IP / on the front antibient temperature  • during operation / mainimum  • during operation / mainimum  • during operation / mainimum  • during storage / minimum  |   | 200 A   |
| Mechanical Design  product component  • undervoltage release • voltage trigger • trip indicator No height [in] 6.22 in height 158 mm width [in] 4.13 in width 105 mm depth [in] 6.276 in depth 70 mm  Connections  arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit 159 e of electrical connection / for main current circuit 159 e of electrical connection / for fial-bar terminal connectable conductor cross-sections / for fial-bar terminal connectable conductor cross-sections / for fial-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. 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  o Accessories  product extension / optional / motor drive  e during operation / maximum  - 25 ° C  • during operation / maximum  • during storage / minimum  | • maximum   | 200 A   |
| product component  • undervoltage release • voltage trigger • trip indicator No height [in] 6.22 in height 158 mm width [in] 4.13 in width 105 mm depth forman experiment of electrical connectors / for main current circuit type of electrical connection / 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 / 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, 1, 3, 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 operation / maximum • during storage / minimum • during storage / minimum • during storage / minimum • during storage / maximum • during storage /  | product function / grounding protection                         | No  |
| product component  • undervoltage release • voltage trigger • trip indicator No height [in] 6.22 in height 158 mm width [in] 4.13 in width 105 mm depth forman experiment of electrical connectors / for main current circuit type of electrical connection / 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 / 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, 1, 3, 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 operation / maximum • during storage / minimum • during storage / minimum • during storage / minimum • during storage / maximum • during storage /  |   |   |
| undervoltage release voltage trigger trip indicator No height [in] 6.22 in height   158 mm width [in]   4.13 in width   105 mm depth [in]   2.76 in depth   70 mm  Connections arrangement of electrical connectors / for main current circuit   70 mm  type of electrical connection / for main current circuit   13 x 1 mm terminal connection / minimum   13 x 1 mm terminal connection / minimum   15 x 1 mm terminal connection / minimum   15 x 1 mm terminal connection / maximum 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  Product extension / optional / motor drive   Yes  Environmental conditions  protection class IP / on the front   IP40   ambient temperature   4 uting operation / maximum   25 ° °C   4 uting operation / maximum   25 ° °C   4 uting operation / maximum   26 ° °C   4 uting storage / maximum   80 ° °C   reference code / according to IEC 81348-2   Q   |   |   |
| • voltage trigger • trip indicator No height [in] 6.22 in height [in] 6.22 in height 158 mm width [in] 4.13 in width 105 mm depth [in] 6.276 in depth [in] 70 mm  Connections  arrangement of electrical connectors / for main current circuit Type of electrical connector / for main current circuit Iype of electrical 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 anbient temperature  • during operation / maximum • during operation / maximum • during storage / maximum  | undervoltage release  | No  |
| • trip indicator  height [in]  6.22 in  height  158 mm  width [in]  4.13 in  width  105 mm  depth in]  2.76 in  depth  70 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  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  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  ambient temperature  • during operation / maximum  - 25 °C  during operation / maximum  of or C  during storage / minimum  • during storage / minimum  • during storage / maximum  of or C  reference code / according to IEC 81346-2  Q  |   | No  |
| height [in] 6.22 in height 158 mm width [in] 4.13 in width 105 mm depth [in] 2.76 in depth 70 mm  Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit type of electrical connection / for main current circuit 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  O Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature  • during operation / maximum • during operation / maximum • during storage / maximum • do "C reference code / according to IEC 81346-2  Q   |   | No  |
| height   158 mm   width   [n]   4.13 in   width   105 mm   depth   70 mm   2.76 in   depth   70 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   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 / 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   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 / minimum   -25 °C   during storage / minimum   -40 °C   during storage / maximum   80 °C   reference code / according to IEC 81346-2   Q  | ·   | 6.22 in   |
| width [in] 4.13 in  width 105 mm  depth [in] 2.76 in  depth 70 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  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 auxillary contacts  Accessories  product extension / optional / motor drive Yes  Environmental conditions  protection class IP / on the front IP40  ambient temperature  • during operation / minimum  • during storage / maximum   |   | 158 mm  |
| width depth [in] 2.76 in depth 70 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 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 Yes  Environmental conditions protection class IP / on the front ambient temperature   | -   | 4.13 in   |
| depth 70 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)  Auxiliary circuit  number of CO contacts / for auxiliary contacts  product extension / optional / motor drive  Yes  Environmental conditions  protection class IP / on the front  e during operation / minimum  -25 °C  e during operation / maximum  -40 °C  e during storage / minimum  e during storage / maximum  80 °C  reference code / according to IEC 81346-2  Q   |   | 105 mm  |
| 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 / minimum  design of the surface / of the connections / on the top of the 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 -25 °C during operation / maximum -26 °C during storage / minimum -40 °C during storage / maximum -20 °C reference code / according to IEC 81346-2  Q  | depth [in]  | 2.76 in   |
| 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)  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 storage / minimum • during storage / maximum • during storage / maximum  • during storage / maximum  **To °C  • during storage / maximum   | depth   | 70 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 / 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 ambient temperature  • during operation / minimum -25 °C • during operation / maximum -40 °C • during storage / minimum -40 °C reference code / according to IEC 81346-2  Q  | Connections   |   |
| 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  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 ambient temperature  • during operation / minimum -25 °C • during operation / maximum -40 °C • during storage / minimum -40 °C reference code / according to IEC 81346-2  Q  | arrangement of electrical connectors / for main current circuit | Front terminal  |
| 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  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 -40 °C • during storage / minimum -40 °C • during storage / maximum -80 °C  reference code / according to IEC 81346-2   |   | nut keeper kit on both ends   |
| 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 ambient temperature  • during operation / minimum -25 °C • during operation / maximum 70 °C • during storage / minimum -40 °C • during storage / maximum 80 °C  reference code / according to IEC 81346-2  Q  | type of connectable conductor cross-sections / for flat-bar     | ·   |
| 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  70 °C  • during storage / minimum  40 °C  • during storage / maximum  80 °C  reference code / according to IEC 81346-2  Q  |   | 25 x 8 mm   |
| 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  • during storage / minimum  -40 °C  • during storage / maximum  80 °C  reference code / according to IEC 81346-2  Q   | switch (N, 1, 3, 5)   |   |
| 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  reference code / according to IEC 81346-2  Q  | switch (N, 2, 4, 6)   | Silver  |
| 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  • during storage / according to IEC 81346-2  Q  |   | 0   |
| 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  reference code / according to IEC 81346-2 Q  |   | U   |
| 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  reference code / according to IEC 81346-2  Q  | · · · · · · · · · · · · · · · · · · ·                           | Yes   |
| ambient temperature  • during operation / minimum  -25 °C  • during operation / maximum  70 °C  • during storage / minimum  -40 °C  • during storage / maximum  80 °C  reference code / according to IEC 81346-2  Q  | 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>during storage / maximum</li> <li>C</li> <li>reference code / according to IEC 81346-2</li> </ul>  | ·   | IP40  |
| <ul> <li>during operation / maximum</li> <li>during storage / minimum</li> <li>during storage / maximum</li> <li>during storage / maximum</li> <li>c</li> <li>reference code / according to IEC 81346-2</li> <li>Q</li> </ul>  | ambient temperature   |   |
| <ul> <li>during storage / minimum</li> <li>during storage / maximum</li> <li>during storage / maximum</li> <li>C</li> <li>reference code / according to IEC 81346-2</li> </ul>   | during operation / minimum                                      | -25 °C  |
| ● during storage / maximum 80 °C reference code / according to IEC 81346-2 Q   | <ul> <li>during operation / maximum</li> </ul>                  | 70 °C   |
| reference code / according to IEC 81346-2 Q  | during storage / minimum  | -40 °C  |
| <u> </u>   | during storage / maximum  | 80 °C   |
| Approvals / Certificates   | reference code / according to IEC 81346-2                       | Q   |
|  | Approvals / Certificates  |   |
|  |   |   |





Confirmation





**Miscellaneous** 

General Product Approval

EMV

**Test Certificates** 

Marine / Shipping





**Miscellaneous** 

Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping

other

Environment



**Miscellaneous** 

Confirmation

**Miscellaneous** 



Environmental Confirmations

## **Environment**

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=3VA1220-6MH32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA1220-6MH32-0AA0

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

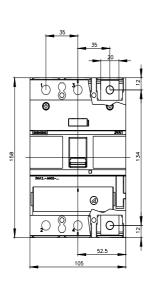
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA1220-6MH32-0AA0

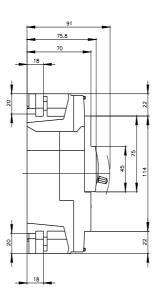
**CAx-Online-Generator** 

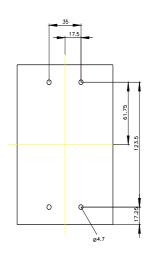
http://www.siemens.com/cax

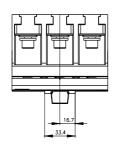
**Tender specifications** 

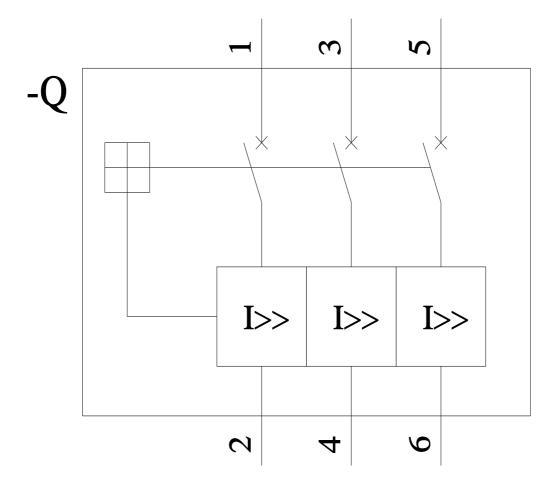
http://www.siemens.com/specifications











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