# **SIEMENS**

## **Data sheet**



circuit breaker 3VA1 IEC Frame 250 breaking capacity class S Icu=36 kA @ 415 V 4-pole, line protection TM220, ATFM, In=200 A overload protection Ir=140 A...200 A short-circuit protection Ii=10 x In neutral conductor protection 100% nut keeper kit

| Model  |                             |  |
|--|-----------------------------|--|
| product brand name   | SENTRON                     |  |
| product designation  | Molded case circuit breaker |  |
| design of the product  | Line protection             |  |
| design of the overcurrent release  | TM220                       |  |
| protection function of the overcurrent release   | Ш                           |  |
| number of poles  | 4                           |  |
| General technical data   |                             |  |
| insulation voltage / rated value   | 800 V                       |  |
| operating voltage / at DC / rated value  | 600 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                          |  |
| <ul> <li>other measurement function</li> </ul>   | No                          |  |
| Net Weight   | 2.08 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  | S                           |  |
| maximum short-circuit current breaking capacity (Icu)  |                             |  |
| • at 240 V   | 55 kA                       |  |
| • at 415 V   | 36 kA                       |  |
| • at 440 V   | 25 kA                       |  |
| • at 500 V   | 10 kA                       |  |
| ● at 690 V   | 7 kA                        |  |

| spenting short-crount current breaking capacity (tes)  * 12 415 V  * 14 415 V  * 15 500 V  |   |   |
|--|---|---|
| * e14 5V     * e1 600 V     * e1 600 V     * 5NA  Short-cleusic current making capacity (icm)     * e1 20 U     * e1 415 V     * e1 46 V       | operating short-circuit current breaking capacity (lcs)               |   |
| e at 440 V 500 V 5 MA 5  | • at 240 V  | 55 kA   |
| e at 800 V shot-torcout current making capacity (torn) e 12 40 V 13 145 V 14 15 V 14 16 V 15 15 NA e 14 16 V 16 16 00 V 17 NA e 16 800 V 19 NA e 16 N | ● at 415 V  | 36 kA   |
| and 1690 V both-circuit current making capacity (tern)  and 1415 V 31 440 V 31 415 V 31 440 V 31 500 V 31 7 KA 31 450 V 31 59 KA 32 50 KA 33 50 KA 34 50 KA  | • at 440 V  | 25 kA   |
| short-focult current making capacity (fern)  • at 240 V  • at 615 V  • at 615 V  • at 600  | • at 500 V  | 10 kA   |
| e at 240 V 52.5 kA 1415 V 52.6 kA 52.5 kA 1410 V 52.5 kA 150.0 V 17  | ● at 690 V  | 5 kA  |
| e at 415 V 52.5 kA 75.6 kA 1400 V 17 kA 1400 V 52.5 kA 1400 V 17 kA 1400 V 17 kA 1400 KA 1400 V 17 k | short-circuit current making capacity (Icm)                           |   |
| e at 440 V e at 500 V e at 500 V 11.9 KA  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  product feature / for L-tripping / can be switched onloff adjustable response value setting current (tr) / of the L-trip / with 12t characteristic  maintimum  maximum  maximum  1 s maximum  1 s maximum  maximum  maximum  2 000 A  adjustable response value setting current (ti) / for L-tripping / with 12t characteristic  minimum  maximum  2 000 A  adjustable setting current (tii) / for I-tripping  minimum  2 000 A  adjustable setting current (tii) / for I-tripping  minimum  2 000 A  adjustable response value setting purent (tiin) / for I-tripping  minimum  2 000 A  design of the N-conductor protection  modular of younding protection  No  Mechanical Design  product function / grounding protection  vundervoltage release  voltage trigger  vin indicator  No  Mechanical Design  product component  undervoltage release  voltage trigger  vin indicator  No  Mechanical Design  product component  sundervoltage release  voltage trigger  vin indicator  No  Mechanical Design  product component  sundervoltage release  voltage trigger  vin indicator  No  Mechanical Design  product concord on for main current circuit  product component  sundervoltage release  voltage trigger  vin indicator  No  Mechanical Design  product onection / for main current circuit  product concord on minimum  arrangement of electrical connections / for main current circuit  product connectable conductor cross-sections / for flat-bar  terminal connection / maximum  product onectable conductor or sessentions / for flat-bar  terminal connection / maximum  product connectable conductor or one-sections / for flat-bar  terminal connection / maximum  sund seeper kit on both ends  13 x 1 mm  terminal connection / maximum  sundervoltage rericuit  your of the sundace / of the connections / on the bottom of t | • at 240 V  | 121 kA  |
| e at 800 V  design of short-circuit protection  For artifiching power values in DC networks, see the 3VA moided case circuit breaker device manual, link to be found under Service & Support in the last displayment of the circuit breaker device manual, link to be found under Service & Support in the last displayment of the circuit of th | • at 415 V  | 75.6 kA   |
| design of short-circuit protection  ### Adjustable parameters product feature / for L-tripping / can be switched on/off adjustable parameters product feature / for L-tripping / can be switched on/off adjustable response value setting current (iii) / of the L-trip / with 12t characteristic - minimum - maximum - moximum - moxi | • at 440 V  | 52.5 kA   |
| design of short-circuit protection  For switching proview values in IC networks, see the 304 A modeled case circuit breaker device manual; link to be found under Service & Support in the last chapter  Adjustable parameters  product feature / for L-tripping / can be switched on/off adjustable response value setting current (p) / of the L-trip / with 2t characteristic  - minimum - maximum - maximum 1 s - maximum 1 s - maximum - maximum 2 000 A - maximum - maximum - maximum 2 000 A - maximum 2 000 A - maximum - maximum 2 000 A - maximum - maximum 2 000 A  | ● at 500 V  | 17 kA   |
| breaker device manual; link to be found under Service & Support in the last chapter  Adjustable parameters  product feature / for L-tipping / can be switched on/off adjustable response value setting current (ir) / of the L-tip / with 12t characteristic  minimum  maximum  adjustable response value delay time (ir) / for L-tirpping / with 12t characteristic  minimum  maximum  maximum  maximum  200 A  adjustable setting current (iii) / for I-tripping  minimum  maximum  200 A  adjustable setting current (ini) / for I-tripping  minimum  200 A  maximum  200 A | ● at 690 V  | 11.9 kA   |
| product feature / for L-tripping / can be switched on/off adjustable response value setting current (in) / of the L-trip / with IZ characteristic  minimum maximum 200 A  adjustable response value delay time (tr) / for L-tripping / with IZt characteristic  minimum maximum 1s adjustable response value setting current (iii) / for I-tripping / with IZt characteristic  minimum maximum 1s adjustable response value setting current (iii) / for I-tripping minimum maximum 2000 A maximum 2000 A maximum 2000 A maximum 2000 A maximum No No No Maximum No   | design of short-circuit protection                                    | breaker device manual; link to be found under Service & Support in the last |
| adjustable response value setting current (ii') / of the L-trip / with 12t characteristic  | Adjustable parameters   |   |
| adjustable response value setting current (ii') / of the L-trip / with 12t characteristic  |   | No  |
| adjustable response value delay time (tr) / for L-tripping / with 12t characteristic  minimum  smaximum  is adjustable response value setting current (ii) / for I-tripping  minimum  2 000 A  maximum  2 00 A  maximum  8 0 A  maximum  8 0 A  Mo  Mo  Mo  Mo  Mo  Mo  Mo  Mo  Mo  M  | adjustable response value setting current (Ir) / of the L-trip / with |   |
| adjustable response value delay time (tr) / for L-tripping / with 12t characteristic       minimum   | • minimum   | 140 A   |
| characteristic  minimum  minim | • maximum   | 200 A   |
| maximum   1 s   adjustable response value setting current (iii) / for I-tripping   minimum   2 000 A       |   |   |
| adjustable response value setting current (iii) / for I-tripping  • minimum  • maximum  2 000 A  adjustable setting current (inN) / for N-tripping  • minimum  • maximum  200 A  design of the N-conductor protection  product function / grounding protection  No  Machanical Design  product component  • undervoltage release  • voltage trigger  • trip indicator  **trip indicator  **height [in]  **design of the sign  width [in]  **despth  **despth  **line indicator  **maximum  **Connections  arrangement of electrical connectors / for main current circuit  type of connectable conductor cross-sections / for flat-bar terminal connectable conductor or maximum  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 witch (N, 1, 3, 5)  design of the surface / of the connections / on the bottom of the witch (N, 1, 3, 5)  design of the surface / of the connections / on the bottom of the witch (N, 1, 3, 5)  design of the surface / of the connections / on the bottom of the witch (N, 2, 4, 6)  Auxiliary circuit  number of CO contacts / for auxiliary contacts  Decessories  product extension / optional / motor drive  Environmental conditions  protection calass IP / on the front  ambient temperature  | • minimum   | 1 s   |
| minimum 2 000 A maximum 2 000 A adjustable setting current (InN) / for N-tripping minimum 200 A maximum 200 A maximum 200 A design of the N-conductor protection 100% product function / grounding protection No  Mechanical Design product component undervoltage release No voltage trigger No height [in] 6,22 in height [in] 6,22 in height [in] 5,51 in width 140 mm depth [in] 2,76 in depth 70 mm  Connections  arrangement of electrical connectors / for main current circuit ype of connectable conductor cross-sections / for flat-bar terminal connection / firm 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, 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. 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. 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. 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. 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N. 1, 3, 4, 6)  Auxiliary circuit number of CO contacts / for auxiliary contacts  Accessories product extension / optional / motor drive Environmental conditions protection calcusters in the front ambient temperature  | • maximum   | 1 s   |
| maximum     adjustable setting current (InN) / for N-tripping     minimum     maximum     200 A     emaximum     200 A     design of the N-conductor protection     product function / grounding protection     No     Mochanical Dosign     product component     • undervoltage release     • voltage trigger     • trip indicator     height [in]     design of the surface / for main current circuit     type of connectable conductor cross-sections / for flat-bar terminal connection / maximum     type of connectable 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)     Ausiliary circuit     number of the front     amblent temperature  200 A     201 A     200 A     201 A     201 A     202 A     201 A     202 A     202 A     200 A     202 A     202 A     200 A     202 A     202 A     200 A     202 A     201 A     202 A     200 A     202 A     202 A     202 A     203 A     200 A     202 A     202 A     202 A     202 A     203 A     200 A     202 A     202 A     202 A     203 A     204 A     205 A       | adjustable response value setting current (li) / for I-tripping       |   |
| adjustable setting current (inN) / for N-tripping  | • minimum   | 2 000 A   |
| • minimum 200 A • maximum 200 A design of the N-conductor protection 100% product function / grounding protection No  Mechanical Design product component • undervoltage release No • voltage trigger No • trip indicator No height [in] 6.22 in height 158 mm width [in] 5.51 in width 140 mm depth [in] 2.76 in depth 70 mm  Connections arrangement 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 / maximum design of the surface / of the connections / on the bottom of the switch (N, 1, 3, 5)  Ausiliary circuit numbers of Connection / for auxiliary contacts O Accessories product extension / optional / motor drive Yes  Environmental conditions  protection class IP / on the front IP40 ambient temperature  | • maximum   | 2 000 A   |
| maximum 200 A     design of the N-conductor protection 100%     product function / grounding protection No  Mechanical Design  product component   | adjustable setting current (InN) / for N-tripping                     |   |
| design of the N-conductor protection 100%  product function / grounding protection No  Mechanical Design  product component  | • minimum   | 200 A   |
| product function / grounding protection  Mechanical Design  product component  • undervoltage release • voltage trigger • No • trip indicator No height [in] • 6.22 in height   158 mm width [in] • 5.51 in width   140 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 connector / miximum  design of the surface / of the connections / on the top of the switch (N, 2, 4, 6)  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  | • maximum   | 200 A   |
| product component  • undervoltage release • voltage trigger • trip indicator height [in] h | design of the N-conductor protection                                  | 100%  |
| product component  • undervoltage release • voltage trigger • trip indicator No  height [in] 6.22 in  height width [16] 5.51 in  width [17] 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 flat-bar terminal connectable conductor cross-sections / for flat-bar terminal connectable or 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, 6)  Accessories  product extension / optional / motor drive  Environmental conditions  protection class IP / on the front ambient temperature   | product function / grounding protection                               | No  |
| undervoltage release     voltage trigger     No     trip indicator     No     leight [in]     6.22 in     height    158 mm     width [in]    5.51 in     width [in]    2.76 in     depth [in]    2.76 in     depth [in]    2.76 in     depth [in]    3.70 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 / 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    IP40     ambient temperature   | Mechanical Design   |   |
| voltage trigger     trip indicator     No height [in] 6.22 in height 158 mm width [in] 5.51 in width 140 mm depth [in] 2.76 in depth 70 mm  Connections arrangement of electrical connectors / for main current circuit rype 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  Environmental conditions  protection class IP / on the front ambient temperature  | product component   |   |
| e trip indicator  height [in] height [in] height 158 mm  width [in] height 140 mm  depth [in] depth 140 mm  depth [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 / 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  | <ul> <li>undervoltage release</li> </ul>                              | No  |
| height [in] 6.22 in height 158 mm  width [in] 5.51 in width 140 mm depth [in] 2.76 in depth 70 mm  Connections arrangement of electrical connectors / for main current circuit from terminal type of electrical connection / for main current circuit from terminal connection / minimum  type of connectable conductor cross-sections / for flat-bar ferminal connection / minimum  type of connectable conductor cross-sections / for flat-bar ferminal connection / minimum  type of connectable conductor cross-sections / for flat-bar ferminal 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  Yes  Environmental conditions  protection class IP / on the front ambient temperature   | <ul> <li>voltage trigger</li> </ul>                                   | No  |
| height 158 mm  width [in] 5.51 in  width 140 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  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  Environmental conditions  protection class IP / on the front IP40  ambient temperature  | trip indicator  | No  |
| width [in] 5.51 in  width 140 mm  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 / 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 Yes  Environmental conditions  protection class IP / on the front IP40  ambient temperature  | height [in]   | 6.22 in   |
| width 140 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 terminal connection / maximum Silver switch (N, 1, 3, 5)  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 0  Accessories  product extension / optional / motor drive Yes  Environmental conditions  protection class IP / on the front IP40  ambient temperature  | height  | 158 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  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   | width [in]  | 5.51 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  Accessories  product extension / optional / motor drive  Environmental conditions  protection class IP / on the front ambient temperature  | width   | 140 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 / 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 arrangement feront interminal conditions Front terminal nut keeper kit on both ends 13 x 1 mm 13 x 1 mm  Silver   | 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  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   | 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  O  Accessories  product extension / optional / motor drive  Environmental conditions  protection class IP / on the front ambient temperature   | Connections   |   |
| 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   | arrangement of electrical connectors / for main current circuit       | Front terminal  |
| 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  | type of electrical connection / for main current circuit              | 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  product extension / optional / motor drive  Environmental conditions  protection class IP / on the front  ambient temperature   |   | 13 x 1 mm   |
| 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   |   | 25 x 8 mm   |
| 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  |   | Silver  |
| number of CO contacts / for auxiliary contacts  Accessories  product extension / optional / motor drive  Environmental conditions  protection class IP / on the front ambient temperature  | switch (N, 2, 4, 6)   | Silver  |
| Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front IP40 ambient temperature  |   |   |
| product extension / optional / motor drive  Environmental conditions  protection class IP / on the front ambient temperature  Yes  IP40  | ·   | 0   |
| Environmental conditions  protection class IP / on the front IP40  ambient temperature   | Accessories   |   |
| protection class IP / on the front IP40 ambient temperature  | product extension / optional / motor drive                            | Yes   |
| ambient temperature  | Environmental conditions  |   |
|  | protection class IP / on the front                                    | IP40  |
| • during operation / minimum -25 °C  | ambient temperature   |   |
|  | during operation / minimum  | -25 °C  |

| during operation / maximum                 | 70 °C  |
|--|--------|
| <ul><li>during storage / minimum</li></ul> | -40 °C |
| during storage / maximum                   | 80 °C  |
| reference code / according to IEC 81346-2  | Q      |

### **General Product Approval**

Confirmation









**Miscellaneous** 

General Product Approval

EMV

Marine / Shipping



**Miscellaneous** 

**Test Certificates** 

**Special Test Certific-**<u>ate</u>





other

Environment

**Miscellaneous** 

Confirmation

**Miscellaneous** 



**Environmental Con**firmations

**Environmental Con**firmations

## 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=3VA1220-4GE42-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA1220-4GE42-0AA0

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

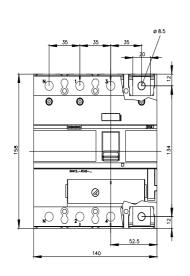
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA1220-4GE42-0AA0

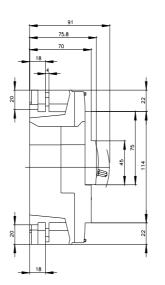
**CAx-Online-Generator** 

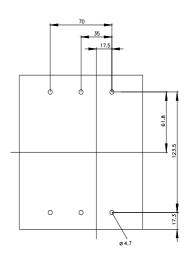
http://www.siemens.com/cax

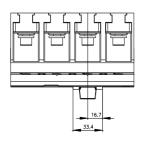
**Tender specifications** 

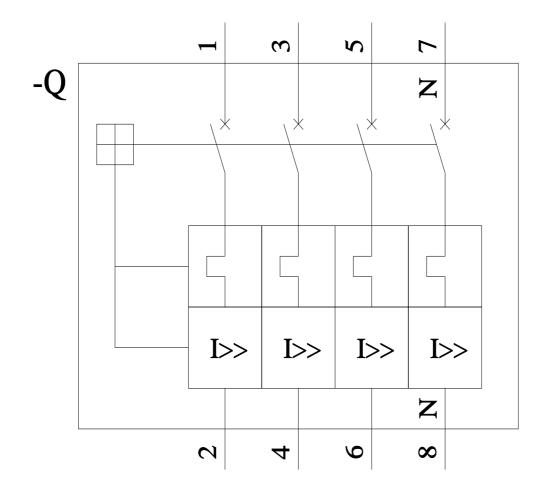
http://www.siemens.com/specifications











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