## SIEMENS

#### Data sheet

#### 3VA5220-5ED31-1AA0



circuit breaker 3VA5 UL frame 250 breaking capacity class M 35kA @ 480 V 3-pole, line protection TM210, FTFM, In=200A overload protection Ir=200A fixed short-circuit protection Ii=10 x In UL 489 SB (naval), 50° C without connection

| product brand name         SENTRON           product designation / according to UL file         MFAM           design of the product         System protection           design of the product / according to UL 489 / Heating, Ar         Yes           Conditioning, and Refrigeration circuit breaker (MACR Type)         No           Discharge circuit breaker (MACR Type)         No           design of the load switch / according to UL 489 / High-Intensity-         No           Discharge circuit breaker (MICR Type)         No           design of the load switch / according to UL 489 / Switching Duty circuit breaker (MICR Type)         No           design of the load switch / according to UL 489 / Switching Duty circuit breaker (MICR Type)         No           design of the overcurrent release         TM210           protection function of the overcurrent release         Ll           number of poles         3           General technical data         680 V           power loss [W] / for rated value of the current / at AC / in hot         14.17 W           power loss [W] / for rated value of the current / at AC / in hot         14.17 W           electrical endurance (operating cycles) / typical         20 000           electrical endurance (operating cycles) / at AC-1 / at 3804V 5         8000           electrical endurance (operating cycles) / at AC 0 / at 800 V   | Model  |                             |
|---|--|-----------------------------|
| product designation / according to UL file MFAM<br>design of the product System protection<br>design of the load switch / according to UL 489 / Heating, AI<br>Conditioning, and Refrigeration circuit breaker (HACR Type)<br>design of the load switch / according to UL 489 / High-Intensity:<br>Discharge circuit breaker (INT Type)<br>design of the load switch / according to UL 489 / Switching Duty<br>circuit breaker (INT Type)<br>design of the overcurrent release<br>TM210<br>protection function of the overcurrent release<br>unumber of poles<br>General technical data<br>operating voltage / at AC / rated value<br>operating voltage / at AC / rated value<br>power loss [W] / for rated value of the current / at AC / in hot<br>operating state / per pole<br>mechanical service life (operating cycles) / typical<br>electrical endurance (operating cycles) / typical<br>electrical endurance (operating cycles) / typical<br>ground-fault monitoring version<br>yrout feature / for neutral conductors / upgradable/retrofittable<br>/ short - forcuring version<br>ground-fault monitoring version<br>without<br>product feature / for neutral conductors / upgradable/retrofittable<br>/ short - forcuring version<br>ground-fault monitoring version<br>without<br>product feature (operating cycles) / at 600 V<br>4 000<br>Autor feature / for neutral conductors / upgradable/retrofittable<br>No<br>No<br>No<br>No<br>No<br>No<br>No<br>No<br>No<br>No   | product brand name   | SENTRON                     |
| design of the product         System protection           design of the load switch / according to UL 489 / Heating, Air<br>Conditioning, and Refrigerative (HACR Type)         Yes           design of the load switch / according to UL 489 / High-Intensity-<br>Discharge circuit breaker (HACR Type)         No           design of the load switch / according to UL 489 / Switching Duty<br>circuit breaker (GWD Type)         No           design of the load switch / according to UL 489 / Switching Duty<br>circuit breaker (GWD Type)         No           design of the overcurrent release         TM210           protection function of the overcurrent release         Ll           operating voltage / at AC / rated value         690 V           power loss (W) / for rated value of the current / at AC / in hot<br>operating state / per pole         20 000           electrical endurance (operating cycles) / typical         20 000           electrical endurance (operating cycles) / at AC-1 / at 380/415 V         8 000           electrical endurance (operating cycles) / at AC-1 / at 380/415 V         8 000           electrical endurance (operating cycles) / at AC-1 / at 380/415 V         8 000           electrical endurance (operating cycles) / at AC-1 / at 380/415 V         8 000           electrical endurance (operating cycles) / at AC-1 / at 380/415 V         8 000           electrical endurance (operating cycles) / at AC-1 / at 380/415 V         8 000           ground-fa  | product designation  | Molded-case circuit breaker |
| design of the load switch / according to UL 489 / Heating, Air<br>Conditioning, and Refrigeration circuit breaker (HACR Type)     Yes       design of the load switch / according to UL 489 / Heating, Air<br>Discharge circuit breaker (HID Type)     No       design of the load switch / according to UL 489 / High-Intensity-<br>Discharge circuit breaker (HID Type)     No       design of the load switch / according to UL 489 / Switching Duty<br>dricuit breaker (SWD Type)     No       design of the load switch / according to UL 489 / Switching Duty<br>dricuit breaker (SWD Type)     No       design of the load switch / according to UL 489 / Switching Duty<br>dricuit breaker (SWD Type)     No       operating voltage / at AC / rated value     690 V       operating voltage / at AC / rated value of the current / at AC / in hot<br>operating state / per pole     14.17 W       operating state / per pole     14.17 W       electrical endurance (operating cycles) / typical     20 000       electrical endurance (operating cycles) / typical     8000       electrical endurance (operating cycles) / at 480 V     8000       electrical endurance (operating cycles) / at 480 V     8000       ground-fault monitoring version     without       product function     No       other measurement function     <  | product designation / according to UL file                       | MFAM                        |
| Conditioning, and Refrigeration circuit breaker (HACR Type)       No         design of the load switch / according to UL 489 / High-Intensity-<br>Discharge circuit breaker (HID Type)       No         design of the load switch / according to UL 489 / Switching Duty<br>circuit breaker (SWD Type)       No         design of the overcurrent release       TM210         protection function of the overcurrent release       LI         operating voltage / at AC / rated value       690 V         operating voltage / at AC / rated value       690 V         power loss [W] / maximum       43 W         operating voltage / at AC / rated value of the current / at AC / in hot<br>operating state / per pole       14.17 W         electrical endurance (operating cycles) / typical       20 000         electrical endurance (operating cycles) / typical       8 000         electrical endurance (operating cycles) / ta 480 V       8 000         electrical endurance (operating cycles) / ta 480 V       8 000         electrical endurance (operating cycles) / ta 480 V       8 000         electrical endurance (operating cycles) / ta 480 V       8 000         ground-fault monitoring version       without         product feature / for neutral conductors / upgradable/retrofittable       No         other measurement function       No         other measurement function       No   | design of the product  | System protection           |
| Discharge circuit breaker (HID Type)       No         design of the load switch / according to UL 489 / Switching Duty<br>circuit breaker (SWD Type)       No         design of the overcurrent release       TM210         protection function of the overcurrent release       Ll         number of poles       3         General tochnical data       690 V         operating voltage / at AC / rated value       690 V         power loss [W] / for rated value of the current / at AC / in hot<br>operating state / per pole       14.17 W         mechanical service life (operating cycles) / ta AC-1 / at 380/415 V       8 000         electrical endurance (operating cycles) / at AC-1 / at 380/415 V       8 000         electrical endurance (operating cycles) / at AC0 V       4 000         electrical endurance (operating cycles) / at AC0 V       8 000         electrical endurance (operating cycles) / at A00 V       4 000         product feature / for neutral conductors / upgradable/retrofittable       No         / short-circuit and overload proof       without         product function       No         • other measument function       No         • other measument function       No         • other measument function       No         • at 40 °C       200 A         • at 45 °C       194 A   |  | Yes                         |
| circuit breaker (SWD Type)       TM210         design of the overcurrent release       Ll         number of poles       3         coperating voltage / at AC / rated value       690 V         power loss [W] / maximum       43 W         perating state / per pole       mechanical service life (operating cycles) / typical       20 000         electrical endurance (operating cycles) / typical       20 000       electrical endurance (operating cycles) / typical         electrical endurance (operating cycles) / typical       20 000       electrical endurance (operating cycles) / ta AC-1 / at 380/415 V       8 000         electrical endurance (operating cycles) / typical       20 000       electrical endurance (operating cycles) / ta AC V       8 000         electrical endurance (operating cycles) / ta 480 V       8 000       electrical endurance (operating cycles) / ta 480 V       8 000         ground-fault monitoring cycles) / at 600 V       4 000       Product feature / for neutral conductors / upgradable/retrofittable       No         / short-circuit and overtoad proof       gground-fault monitoring version       without         product function       No       No       No         other measu  | · · · · · · · · · · · · · · · · · · ·                            | No                          |
| protection function of the overcurrent release       Ll         number of poles       3         General technical data       690 V         operating voltage / at AC / rated value       690 V         power loss [W] / maximum       43 W         power loss [W] / for rated value of the current / at AC / in hot       14.17 W         operating solate / per pole       20 000         mechanical service life (operating cycles) / typical       20 000         electrical endurance (operating cycles) / at AC-1 / at 380/415 V       8 000         electrical endurance (operating cycles) / at AC-1 / at 380/415 V       8 000         electrical endurance (operating cycles) / at AC-1 / at 380/415 V       8 000         electrical endurance (operating cycles) / at AC-1 / at 690 V       4 000         product feature / for neutral conductors / upgradable/retrofittable       No         / short-circuit and overload proof       ground-fault monitoring version         without       product function         • other measurement function       No         • other measurement function       No         • other measurement function       No         • otta 0°C       200 A         • at 40 °C       200 A         • at 45 °C       194 A         • at 55 °C       189 A   |  | No                          |
| number of poles     3       General tochnical data     690 V       power loss [W] / maximum     43 W       power loss [W] / for rated value of the current / at AC / in hot<br>operating state / per pole     14.17 W       mechanical service life (operating cycles) / the current / at AC / in hot<br>operating state / per pole     20 000       electrical endurance (operating cycles) / at AC-1 / at 380/415 V     8 000       electrical endurance (operating cycles) / at AC-1 / at 680 V     4 000       electrical endurance (operating cycles) / at AC-1 / at 680 V     4 000       electrical endurance (operating cycles) / at 480 V     8 000       electrical endurance (operating cycles) / at 480 V     8 000       electrical endurance (operating cycles) / at 480 V     4 000       product feature / for neutral conductors / upgradable/retrofittable<br>/ short-circuit and overload proof     No       ground-Fault monitoring version     without       product function     No       • other measurement function     No       • other measurement function     No       • at 40 °C     200 A       • at 45 °C     184 A       • at 50 °C     189 A       • at 55 °C     182 A       • at 55 °C     172 A  | design of the overcurrent release                                | TM210                       |
| General technical data       operating voltage / at AC / rated value     690 V       power loss [W] / maximum     43 W       power loss [W] / for rated value of the current / at AC / in hot<br>operating state / per pole     14.17 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     4 000       electrical endurance (operating cycles) / at AC-1 / at 690 V     4 000       electrical endurance (operating cycles) / at AC-1 / at 690 V     4 000       electrical endurance (operating cycles) / at 600 V     4 000       electrical endurance (operating cycles) / at 600 V     4 000       ground-fault monitoring version     without       product function     No       • communication function     No       • other measurement function     No       Net Weight     2 kg       Current     at 40 °C       • at 40 °C     183 A       • at 55 °C     183 A       • at 55 °C     172 A   | protection function of the overcurrent release                   | LI                          |
| operating voltage / at AC / rated value       690 V         power loss [W] / maximum       43 W         power loss [W] / for rated value of the current / at AC / in hot<br>operating state / per pole       14.17 W         mechanical service life (operating cycles) / typical       20 000         electrical endurance (operating cycles) / typical       20 000         electrical endurance (operating cycles) / at AC-1 / at 380/415 V       8 000         electrical endurance (operating cycles) / at AC-1 / at 690 V       4 000         electrical endurance (operating cycles) / at AC V       8 000         electrical endurance (operating cycles) / at AC V       8 000         electrical endurance (operating cycles) / at AC V       8 000         electrical endurance (operating cycles) / at 480 V       8 000         electrical endurance (operating cycles) / at 600 V       4 000         product feature / for neutral conductors / upgradable/retrofittable       No         / stort-circuit and overload proof       No         ground-fault monitoring version       without         product function       No         • communication function       No         Net Weight       2 kg         Current       at 40 °C         • at 40 °C       194 A         • at 50 °C       183 A         • at 50 °   | number of poles  | 3                           |
| jower loss [W] / maximum       43 W         power loss [W] / for rated value of the current / at AC / in hot<br>operating state / per pole       14.17 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       4 000         electrical endurance (operating cycles) / at AC0 V       8 000         electrical endurance (operating cycles) / at 600 V       4 000         product feature / for neutral conductors / upgradable/retrofittable<br>/short-circuit and overload proof       No         ground-fault monitoring version       without         product function       No         • other measurement function       No         Net Weight       2 kg         Current       at 40 °C         • at 40 °C       200 A         • at 40 °C       194 A         • at 55 °C       183 A         • at 60 °C       178 A         • at 65 °C       172 A  | General technical data   |                             |
| power loss [W] / for rated value of the current / at AC / in hot       14.17 W         operating state / per pole       14.17 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       4 000         electrical endurance (operating cycles) / at AC 0 V       8 000         electrical endurance (operating cycles) / at 600 V       4 000         product feature / for neutral conductors / upgradable/retrofittable       No         / short-circuit and overload proof       without         ground-fault monitoring version       without         product function       No         • other measurement function       No         Net Weight       2 kg         Current       2000 A         • at 40 °C       200 A         • at 45 °C       194 A         • at 55 °C       183 A         • at 60 °C       178 A         • at 65 °C       172 A  | operating voltage / at AC / rated value                          | 690 V                       |
| operating state / per polemechanical service life (operating cycles) / typical20 000electrical endurance (operating cycles) / at AC-1 / at 380/415 V8 000electrical endurance (operating cycles) / at 690 V4 000electrical endurance (operating cycles) / at 690 V8 000electrical endurance (operating cycles) / at 800 V8 000electrical endurance (operating cycles) / at 800 V4 000product feature / for neutral conductors / upgradable/retrofittable<br>/ short-circuit and overload proofNoground-fault monitoring versionwithoutproduct functionNo• communication functionNo• other measurement functionNoNet Weight2 kgCurrentImarking / according to UL 489 / 100%-rated breaker• at 40 °C200 A• at 45 °C194 A• at 55 °C183 A• at 60 °C178 A• at 65 °C172 A   | power loss [W] / maximum   | 43 W                        |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V       8 000         electrical endurance (operating cycles) / at AC-1 / at 690 V       4 000         electrical endurance (operating cycles) / at AC V       8 000         electrical endurance (operating cycles) / at AB V       8 000         electrical endurance (operating cycles) / at AB V       8 000         electrical endurance (operating cycles) / at 600 V       4 000         product feature / for neutral conductors / upgradable/retrofittable       No         / short-circuit and overload proof       without         ground-fault monitoring version       without         product function       No         • communication function       No         • other measurement function       No         Net Weight       2 kg         Current       at 40 °C         • at 40 °C       200 A         • at 40 °C       194 A         • at 50 °C       189 A         • at 55 °C       183 A         • at 60 °C       178 A         • at 65 °C       172 A   |  | 14.17 W                     |
| electrical endurance (operating cycles) / at AC-1 / at 690 V       4 000         electrical endurance (operating cycles) / at 480 V       8 000         electrical endurance (operating cycles) / at 600 V       4 000         product feature / for neutral conductors / upgradable/retrofittable<br>/ short-circuit and overload proof       No         ground-fault monitoring version       without         product function       No         • communication function       No         • other measurement function       No         Net Weight       2 kg         Current   | mechanical service life (operating cycles) / typical             | 20 000                      |
| electrical endurance (operating cycles) / at 480 V       8 000         electrical endurance (operating cycles) / at 600 V       4 000         product feature / for neutral conductors / upgradable/retrofittable       No         / short-circuit and overload proof       No         ground-fault monitoring version       without         product function       No         • communication function       No         • other measurement function       No         Net Weight       2 kg         Current       Image: State Sta | electrical endurance (operating cycles) / at AC-1 / at 380/415 V | 8 000                       |
| electrical endurance (operating cycles) / at 600 V       4 000         product feature / for neutral conductors / upgradable/retrofittable       No         / short-circuit and overload proof       without         ground-fault monitoring version       without         product function       No         • communication function       No         • other measurement function       No         Net Weight       2 kg         Current       No         marking / according to UL 489 / 100%-rated breaker       No         operational current       200 A         • at 40 °C       200 A         • at 45 °C       194 A         • at 55 °C       183 A         • at 65 °C       172 A   | electrical endurance (operating cycles) / at AC-1 / at 690 V     | 4 000                       |
| product feature / for neutral conductors / upgradable/retrofittable       No         / short-circuit and overload proof       without         ground-fault monitoring version       without         product function       No         • communication function       No         • other measurement function       No         Net Weight       2 kg         Current       marking / according to UL 489 / 100%-rated breaker       No         operational current       200 A         • at 40 °C       194 A         • at 55 °C       183 A         • at 60 °C       178 A         • at 65 °C       172 A   | electrical endurance (operating cycles) / at 480 V               | 8 000                       |
| / short-circuit and overload proof       without         ground-fault monitoring version       without         product function       No         • communication function       No         • other measurement function       No         Net Weight       2 kg         Current       No         marking / according to UL 489 / 100%-rated breaker       No         operational current       200 A         • at 40 °C       200 A         • at 45 °C       194 A         • at 50 °C       189 A         • at 60 °C       178 A         • at 65 °C       172 A  | electrical endurance (operating cycles) / at 600 V               | 4 000                       |
| product function       No         • communication function       No         • other measurement function       No         Net Weight       2 kg         Current       marking / according to UL 489 / 100%-rated breaker       No         operational current       e at 40 °C       200 A         • at 40 °C       200 A       194 A         • at 50 °C       189 A       at 55 °C         • at 60 °C       178 A       at 65 °C         • at 65 °C       172 A  |  | No                          |
| • communication functionNo• other measurement functionNoNet Weight2 kgCurrentmarking / according to UL 489 / 100%-rated breakerNooperational current200 A• at 40 °C200 A• at 45 °C194 A• at 55 °C183 A• at 60 °C178 A• at 65 °C172 A  | ground-fault monitoring version                                  | without                     |
| • other measurement functionNoNet Weight2 kgCurrentmarking / according to UL 489 / 100%-rated breakerNooperational currentNo• at 40 °C200 A• at 45 °C194 A• at 55 °C189 A• at 55 °C183 A• at 60 °C178 A• at 65 °C172 A  | product function   |                             |
| Net Weight2 kgCurrentmarking / according to UL 489 / 100%-rated breakerNooperational current• at 40 °C200 A• at 45 °C194 A• at 55 °C189 A• at 55 °C183 A• at 60 °C178 A• at 65 °C172 A  | <ul> <li>communication function</li> </ul>                       | No                          |
| Current       No         marking / according to UL 489 / 100%-rated breaker       No         operational current       200 A         • at 40 °C       200 A         • at 45 °C       194 A         • at 50 °C       189 A         • at 55 °C       183 A         • at 60 °C       178 A         • at 65 °C       172 A  | <ul> <li>other measurement function</li> </ul>                   | No                          |
| marking / according to UL 489 / 100%-rated breaker         No           operational current         200 A           • at 40 °C         200 A           • at 45 °C         194 A           • at 50 °C         189 A           • at 65 °C         183 A           • at 60 °C         178 A           • at 65 °C         172 A   | Net Weight   | 2 kg                        |
| operational current         200 A           • at 40 °C         200 A           • at 45 °C         194 A           • at 50 °C         189 A           • at 55 °C         183 A           • at 60 °C         178 A           • at 65 °C         172 A   | Current  |                             |
| • at 40 °C       200 A         • at 45 °C       194 A         • at 50 °C       189 A         • at 55 °C       183 A         • at 60 °C       178 A         • at 65 °C       172 A   | marking / according to UL 489 / 100%-rated breaker               | No                          |
| • at 45 °C       194 A         • at 50 °C       189 A         • at 55 °C       183 A         • at 60 °C       178 A         • at 65 °C       172 A  | operational current  |                             |
| • at 50 °C       189 A         • at 55 °C       183 A         • at 60 °C       178 A         • at 65 °C       172 A   | • at 40 °C   | 200 A                       |
| • at 55 °C 183 A<br>• at 60 °C 178 A<br>• at 65 °C 172 A  | ● at 45 °C   | 194 A                       |
| • at 60 °C 178 A<br>• at 65 °C 172 A  | ● at 50 °C   | 189 A                       |
| • at 65 °C 172 A  | ● at 55 °C   | 183 A                       |
|   | • at 60 °C   | 178 A                       |
| • at 70 °C 167 A  | • at 65 °C   | 172 A                       |
|   | ● at 70 °C   | 167 A                       |

| Switching capacity according to IEC 60947   |  |
|---|--|
| switching capacity class of the circuit breaker   | Μ  |
| design of short-circuit protection  | For switching power values in DC networks, see the 3VA molded case circuit<br>breaker device manual; link to be found under Service & Support in the last<br>chapter |
| Switching capacity according to UL 489  |  |
| current breaking capacity   |  |
| • at 240 V  | 85 kA  |
| • at 480 V  | 35 kA  |
| ● at 600 V  | 18 kA  |
| Adjustable parameters   |  |
| adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic                                    |  |
| • minimum   | 200 A  |
| • maximum   | 200 A  |
| adjustable response value delay time (tr) / for L-tripping / with I2t characteristic  |  |
| • minimum   | 1 s  |
| • maximum   | 1 s  |
| adjustable response value setting current (li) / for I-tripping   |  |
| • minimum   | 2 000 A  |
| • maximum   | 2 000 A  |
| adjustable setting current (InN) / for N-tripping   |  |
| • minimum   | 0 A  |
| • maximum   | 0 A  |
| adjustable current response value current / of the current-<br>dependent overload release                                   | 200 200 A  |
| product function / grounding protection   | No   |
| Mechanical Design   |  |
| product component   |  |
| undervoltage release  | No   |
| voltage trigger   | No   |
| trip indicator  | No   |
| height [in]   | 7.28 in  |
| height  | 185 mm   |
| width [in]  | 4.13 in  |
| width   | 105 mm   |
| depth [in]  | 3.27 in  |
| depth   | 83 mm  |
| Connections   |  |
|   | Without connection   |
| arrangement of electrical connectors / for main current circuit<br>type of electrical connection / for main current circuit | Without  |
| Auxiliary circuit   |  |
|   | 0  |
| number of CO contacts / for auxiliary contacts  | 0  |
| Accessories   | Va   |
| product extension / optional / motor drive  | Yes  |
| Environmental conditions  |  |
| protection class IP / on the front  | IP40   |
| ambient temperature   |  |
| during operation / minimum  | -25 °C   |
| during operation / maximum  | 70 °C  |
| during storage / minimum  | -40 °C   |
| during storage / maximum  | 80 °C  |
| Certificates<br>certificate of suitability / as approval for NAVAL (no combat   | Yes  |
| vessels) / supplement SB  |  |
| General Product Approval  |  |
|   | Miscellaneous ERIC   |

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Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA5220-5ED31-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5220-5ED31-1AA0

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

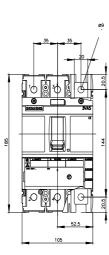
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5220-5ED31-1AA0

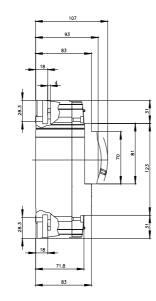
CAx-Online-Generator

http://www.siemens.com/cax

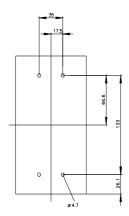
Tender specifications

http://www.siemens.com/specifications

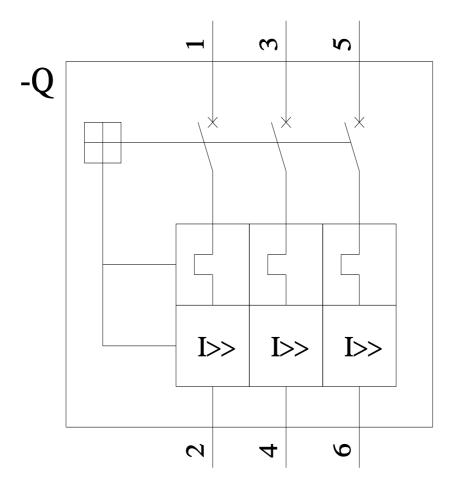


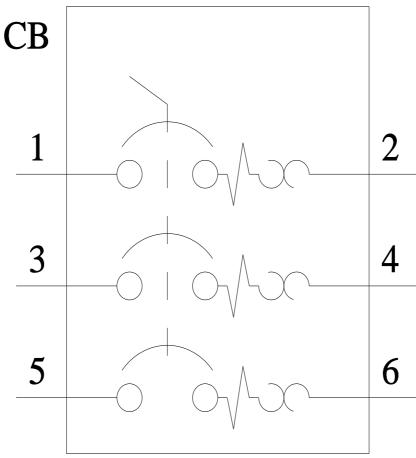


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