SIEMENS

Data sheet

3VA1096-4ED36-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 100 BREAKING CAPACITY CLASS S ICU=36KA @ 415 V 3-POLE, LINE PROTECTION TM210, FTFM, IN=16A OVERLOAD PROTECTION IR=16A FIXED SHORT CIRCUIT PROTECTION II=20 X IN CABLE CONNECTION

Figure similar

| Model | | | | | |
|---|---|-----------------------------|--|--|--|
| product brand name | | SENTRON | | | |
| Product designation | | Molded case circuit breaker | | | |
| Design of the product | | Line protection | | | |
| Product variations | | General Applications | | | |
| Ground fault monitoring version | | Without | | | |
| Design of the auxiliary release | | Without auxiliary release | | | |
| Design of the auxiliary switch | | Without | | | |
| Design of the operating mechanism | | toggle handle | | | |
| Type of the driving mechanism / motor drive | | No | | | |
| Design of the overcurrent release | | TM210 | | | |
| General technical data | | | | | |
| Number of poles | | 3 | | | |
| Trip class / of the L-trip / with I2t characteristic / initial value | | 1 | | | |
| Trip class / of the L-trip / with I2t characteristic / Full- scale value | | 1 | | | |
| Electrical endurance (switching cycles) | | | | | |
| • at AC-1 / at 380/415 V / at 50/60 Hz | | 8 000 | | | |
| circuit-breaker / Design | | 3VA | | | |
| Mechanical service life (switching cycles) / typical | | 15 000 | | | |
| Voltage | | | | | |
| Insulation voltage / Rated value | V | 800 | | | |
| Protection class | | | | | |

| Protection class IP / on the front IP40 Protective function of the overcurrent release LI Switching capacity Switching capacity Switching capacity class of the circuit breaker S Dissipation Adive power loss maximum W 10.6 Electricity Continuous current / Rated value / maximum of the current-dependent overload release / Full-scale value of the instantaneous short-circuit release / initial value 10 Main circuit Operating voltage with AC v1 stolk0 Hz / Rated value v 600 for DC / Rated value v et al 0 °C / Rated value v et als 0 °C / Rated value A 16 et als 0 °C / Rated value at 60 °C / Rated value A at 50 °C / Rated value A at 50 °C / Rated value A System protection Auxiliary circuit Number of CO contacts / for auxiliary contacts 0 Sutability Sutability Sutability for use | Protection class IP | | IP40 |
|--|---|---|-------------------|
| Protective function of the overcurrent release LI Switching capacity S Switching capacity class of the circuit breaker S Dissipation Active power loss • maximum W 10.6 Electricity Continuous current / Rated value A • of the current-dependent overload release / Full-scale value A 16 • of the instantaneous short-circuit release / initial value A 10 Main circuit Operating voltage V 690 • with AC / at 50/60 Hz / Rated value V 690 • for DC / Rated value A 16 • at 40 °C / Rated value A 16 • at 50 °C / Rated value A 16 • at 50 °C / Rated value A 15 • at 55 °C / Rated value A 15 • at 80 °C / Rated value A 15 • at 80 °C / Rated value A 15 • at 80 °C / Rated value A 15 • at 80 °C / Rated value A 15 • at 80 °C / Rated value A 15 • at 80 °C / Rated value A 15 • at 80 °C / Rated value A 15 • at 80 °C / Rated value A 15 • at 70 | | | |
| Switching capacity Switching capacity class of the circuit breaker S Pissipation Active power loss naximum W 10.6 Electricity Continuous current / Rated value / maximum A 100 Continuous current / Rated value / maximum A 16 Adjustable response value current • of the current-dependent overload release / Full-scale value A 1 Full-scale value A 10 • of the instantaneous short-circuit release / initial value • of processing value V 690 6 | Protective function of the overcurrent release | | U |
| Switching capacity class of the circuit breaker S Dissipation X Active power loss • maximum • maximum W 10.6 Electricity Continuous current / Rated value / maximum A • of the current-dependent overload release / Full-scale value A • of the current-dependent overload release / Full-scale value A • of the instantaneous short-circuit release / initial value A • of the instantaneous short-circuit release / initial value V Operating outage • with AC / at 50/60 Hz / Rated value V • of the C/ Rated value V 690 • for DC / Rated value A 16 • at 40 °C / Rated value A 16 • at 50 °C / Rated value A 16 • at 65 °C / Rated value A 15 • at 65 °C / Rated value A 15 • at 70 °C / Rated value A 15 • at 70 °C / Rated value A 15 • at 65 °C / Rated value A 15 • at 70 °C / Rated value A 15 • at 70 °C / Rated value A 15 • at 65 °C / Rated value A 15 Suitability for use system protection | | | |
| Dissipation Active power loss waximum W 10.6 Electricity Continuous current / Rated value / maximum A 100 Continuous current / Rated value / maximum A 100 Continuous current / Rated value (maximum) A 10 Adjustable response value current A 1 of the current-dependent overload release / Full-scale value A 1 Of the instantaneous short-circuit release / initial value A 10 Main circuit Operating current Operating outage V 690 • of D C / Rated value V 690 600 Operating current / Gated value V 690 600 • of D C / Rated value A 16 410 • at 40 °C / Rated value A 16 416 • at 50 °C / Rated value A 15 416 • at 60 °C / Rated value A 15 415 • at 60 °C / Rated value A 15 415 • at 60 °C / Rated value A 15 415 • at 60 °C / Rated value A 15 410 <td></td> <td></td> <td></td> | | | |
| Active power loss W 10.6 Electricity Continuous current / Rated value / maximum A 100 Continuous current / Rated value A 16 Adjustable response value current A 1 • of the current-dependent overload release / Full-scale value A 1 • of the instantaneous short-circuit release / initial value A 10 Main circuit Operating voltage V 690 • of DC / Rated value V 500 Operating current a 16 • at 40 °C / Rated value A 16 • at 50 °C / Rated value A 16 • at 60 °C / Rated value A 15 • at 60 °C / Rated value A 15 • at 70 °C / Rated value A 15 • at 70 °C / Rated value A 15 • at 70 °C / Rated value A 15 • at 70 °C / Rated value A 15 • at 70 °C / Rated value A 15 • at 70 °C / Rated value A 15 • at 70 °C / Rated value A 15 • at 70 °C / Rated value A 15 • at 70 °C / Rated value A 10 • at 70 °C / Rated value A <td>Switching capacity class of the circuit breaker</td> <td></td> <td>5</td> | Switching capacity class of the circuit breaker | | 5 |
| • maximum W 10.6 Electricity A 10 Continuous current / Rated value A 16 Adjustable response value current A 1 • of the current-dependent overload release / Full-scale value A 1 • of the instantaneous short-circuit release / initial value A 10 Main circuit A 10 Operating voltage V 690 • with AC / at 50/60 Hz / Rated value V 690 • for DC / Rated value V 500 Operating current I I • at 40 °C / Rated value A 16 • at 50 °C / Rated value A 15 • at 60 °C / Rated value A 15 Auxiliary circuit A 15 Number of CO contacts / for auxiliary contacts 0 Suitability for use system protection Adjustable response value current A 10 • for N-conductor protection / full-scale value A 10 • for N-conductor protection / full-scale value A 10 • for N-conductor protection / full-scale value A 10 • for N-conductor protection / full-scale value A 0 • for N-conductor protection / full-s | Dissipation | | |
| Electricity Continuous current / Rated value A 100 Continuous current / Rated value A 16 Adjustable response value current A 1 • of the current-dependent overload release / Full-scale value A 1 • of the instantaneous short-circuit release / initial value A 10 Main circuit A 10 Operating voltage V 690 • with AC / at 50/60 Hz / Rated value V 500 Operating current A 16 • at 40 °C / Rated value V 500 Operating current A 16 • at 50 °C / Rated value A 16 • at 50 °C / Rated value A 15 • at 65 °C / Rated value A 15 • at 65 °C / Rated value A 15 • at 67 °C / Rated value A 15 • at 67 °C / Rated value A 15 • at 67 °C / Rated value A 15 • Auxiliary circuit A 15 Suttability Suttability for use system protection Adjustable response value current A 10 • for N-conductor protection / initial value A 0 • for N-conductor | Active power loss | | |
| Continuous current / Rated value / maximum A 100 Continuous current / Rated value A 16 Adjustable response value current A 1 • of the current-dependent overload release / Initial value A 1 • of the instantaneous short-circuit release / Initial value A 10 Main circuit A 10 Operating voltage • • • with AC / at 50/60 Hz / Rated value V 690 • for DC / Rated value V 500 Operating current • • • at 40 °C / Rated value A 16 • at 40 °C / Rated value A 16 • at 50 °C / Rated value A 15 • at 60 °C / Rated value A 15 • at 60 °C / Rated value A 15 • at 60 °C / Rated value A 15 • at 60 °C / Rated value A 15 • at 70 °C / Rated value A 15 Auxiliary circuit A 10 Number of CO contacts / for auxiliary contacts 0 Suitability Suitability for use </td <td>• maximum</td> <td>W</td> <td>10.6</td> | • maximum | W | 10.6 |
| Continuous current / Rated value / maximum A 100 Continuous current / Rated value A 16 Adjustable response value current A 1 • of the current-dependent overload release / Full-scale value A 1 • of the instantaneous short-circuit release / initial value A 10 Main circuit A 10 Operating voltage V 690 • with AC / at 50/60 Hz / Rated value V 690 • for DC / Rated value V 500 Operating ourent I I • at 40 °C / Rated value A 16 • at 50 °C / Rated value A 16 • at 50 °C / Rated value A 15 • at 60 °C / Rated value A 15 • at 60 °C / Rated value A 15 • at 60 °C / Rated value A 15 • at 60 °C / Rated value A 15 • at 60 °C / Rated value A 15 • at 60 °C / Rated value A 15 • at 70 °C / Rated value A 15 • at 70 °C / Rated value A 15 Adjustable parameters Adjustable parameters A Adjustable parameters A 10 <tr< td=""><td>Electricity</td><td></td><td></td></tr<> | Electricity | | |
| Adjustable response value current of the current-dependent overload release / Full-scale value of the instantaneous short-circuit release / initial value A 10 Main circuit Operating voltage • with AC / at 50/60 Hz / Rated value V 690 • for DC / Rated value V 690 Operating current V 500 • at 40 °C / Rated value V 500 Operating current A 16 • at 50 °C / Rated value A 16 • at 60 °C / Rated value A 15 • at 65 °C / Rated value A 15 • at 65 °C / Rated value A 15 • at 65 °C / Rated value A 15 • at 65 °C / Rated value A 15 • at 65 °C / Rated value A 15 • Auxiliary circuit Number of CO contacts / for auxiliary contacts 0 Suitability Suitability for use system protection • of I-trip / Full-scale value A 10 • of I-trip / Full-scale value A 0 • of I-trip / Full-scale value | | A | 100 |
| • of the current-dependent overload release / Full-scale value A 1 • of the instantaneous short-circuit release / initial value A 10 Main circuit A 10 Operating voltage • • • with AC / at 50/60 Hz / Rated value V 690 • for DC / Rated value V 500 Operating current - - • at 40 °C / Rated value A 16 • at 55 °C / Rated value A 16 • at 55 °C / Rated value A 15 • at 60 °C / Rated value A 15 • at 65 °C / Rated value A 15 • at 65 °C / Rated value A 15 • at 67 °C / Rated value A 15 • at 70 °C / Rated value A 15 Number of CO contacts / for auxiliary contacts 0 0 Suitability Suitability for use system protection • of I-trip / Full-scale value A 10 • of N-conductor protection / initial value A 0 • for N-conductor protection / Full-scale value A 0 | Continuous current / Rated value | А | 16 |
| Full-scale value A 10 Main circuit | Adjustable response value current | | |
| value Main circuit Operating voltage V 690 • with AC / at 50/60 Hz / Rated value V 500 Operating current V 500 • at 40 °C / Rated value A 16 • at 40 °C / Rated value A 16 • at 50 °C / Rated value A 16 • at 50 °C / Rated value A 16 • at 60 °C / Rated value A 15 • at 65 °C / Rated value A 15 • at 65 °C / Rated value A 15 • at 65 °C / Rated value A 15 • at 70 °C / Rated value A 15 Auxiliary circuit Number of CO contacts / for auxiliary contacts 0 Suitability Suitability for use system protection Adjustable response value current A 10 • of I-trip / Full-scale value A 0 • of N-conductor protection / initial value A 0 • of N-conductor protection / Full-scale value A 1 • for N-conductor protection / Full-scale value A 0 Adjustable response value c | - | A | 1 |
| Operating voltage V 690 • with AC / at 50/60 Hz / Rated value V 500 Operating current - - • at 40 °C / Rated value A 16 • at 50 °C / Rated value A 16 • at 50 °C / Rated value A 16 • at 50 °C / Rated value A 16 • at 60 °C / Rated value A 15 • at 60 °C / Rated value A 15 • at 60 °C / Rated value A 15 • at 60 °C / Rated value A 15 • at 65 °C / Rated value A 15 • at 70 °C / Rated value A 15 • at 70 °C / Rated value A 15 Number of CO contacts / for auxiliary contacts 0 Suitability - - Suitability for use system protection Adjustable parameters - - Adjustable response value current - 0 • of N-conductor protection / initial value A 0 • of N-conductor protection / Full-scale value A 0 • of N-conducto | | A | 10 |
| • with AC / at 50/60 Hz / Rated value V 690 • for DC / Rated value V 500 Operating current - - • at 40 °C / Rated value A 16 • at 50 °C / Rated value A 16 • at 55 °C / Rated value A 15 • at 60 °C / Rated value A 15 • at 60 °C / Rated value A 15 • at 60 °C / Rated value A 15 • at 70 °C / Rated value A 15 • at 70 °C / Rated value A 15 Auxiliary circuit A 15 Number of CO contacts / for auxiliary contacts 0 Suitability Suitability for use system protection Adjustable parameters A 10 • of I-trip / Full-scale value A 0 • of n-conductor protection / initial value A 0 • for N-conductor protection / Full-scale value A 0 • Adjustable response value current / of the current-dependent overload release / initial value A 1 | Main circuit | | |
| • for DC / Rated value V 500 Operating current | Operating voltage | | |
| Operating current A 16 • at 40 °C / Rated value A 16 • at 50 °C / Rated value A 16 • at 50 °C / Rated value A 16 • at 60 °C / Rated value A 16 • at 60 °C / Rated value A 15 • at 60 °C / Rated value A 15 • at 65 °C / Rated value A 15 • at 65 °C / Rated value A 15 • at 70 °C / Rated value A 15 • at 70 °C / Rated value A 15 • at 70 °C / Rated value A 15 • at 70 °C / Rated value A 15 Auxiliary circuit Number of CO contacts / for auxiliary contacts 0 Suitability Suitability for use system protection Suitability Suitability for use system protection Adjustable personse value current A 10 • of I-trip / Full-scale value A 0 • for N-conductor protection / initial value A 0 • for N-conductor protection / Full-scale value A 0 Adjustable | with AC / at 50/60 Hz / Rated value | V | 690 |
| • at 40 °C / Rated value A 16 • at 50 °C / Rated value A 16 • at 55 °C / Rated value A 16 • at 60 °C / Rated value A 15 • at 65 °C / Rated value A 15 • at 65 °C / Rated value A 15 • at 65 °C / Rated value A 15 • at 70 °C / Rated value A 15 • at 70 °C / Rated value A 15 • at 70 °C / Rated value A 15 • at 70 °C / Rated value A 15 Auxiliary circuit O O Number of CO contacts / for auxiliary contacts 0 O Suitability Suitability Suitability Suitability Suitability Suitability for use system protection Adjustable parameters A 10 O • of I-trip / Full-scale value A 0 O • of N-conductor protection / initial value A 0 O • of N-conductor protection / Full-scale value A 0 O Adjustable response value current / of the current- de | for DC / Rated value | V | 500 |
| • at 50 °C / Rated value A 16 • at 55 °C / Rated value A 16 • at 60 °C / Rated value A 15 • at 60 °C / Rated value A 15 • at 65 °C / Rated value A 15 • at 65 °C / Rated value A 15 • at 70 °C / Rated value A 15 • at 70 °C / Rated value A 15 Suitability O O Suitability Suitability for use system protection Adjustable parameters A 10 • of I-trip / Full-scale value A 0 • for N-conductor protection / initial value A 0 • for N-conductor protection / Full-scale value A 1 Product details Product details A 1 | Operating current | | |
| e at 55 °C / Rated value A 16 • at 60 °C / Rated value A 15 • at 65 °C / Rated value A 15 • at 65 °C / Rated value A 15 • at 70 °C / Rated value A 15 • at 70 °C / Rated value A 15 Auxiliary circuit A 15 Number of CO contacts / for auxiliary contacts 0 Suitability Suitability for use system protection Adjustable parameters Adjustable response value current 10 • of I-trip / Full-scale value A 0 • for N-conductor protection / initial value A 0 • for N-conductor protection / Full-scale value A 0 Adjustable response value current / of the current- A 1 ependent overload release / initial value A 0 | • at 40 °C / Rated value | А | 16 |
| • at 60 °C / Rated value A 15 • at 65 °C / Rated value A 15 • at 70 °C / Rated value A 15 Auxiliary circuit A 15 Number of CO contacts / for auxiliary contacts 0 Suitability 0 Suitability for use system protection Adjustable parameters A Adjustable response value current A • of I-trip / Full-scale value A • for N-conductor protection / initial value A Adjustable response value current A • for N-conductor protection / Full-scale value A Adjustable response value current / of the current- A Adjustable response value current / of the current- A Adjustable response value current / of the current- A Adjustable response value current / of the current- A Adjustable response value current / of the current- A Adjustable response value current / of the current- A | • at 50 °C / Rated value | А | 16 |
| • at 65 °C / Rated value A 15 • at 70 °C / Rated value A 15 Auxiliary circuit A 15 Number of CO contacts / for auxiliary contacts 0 Suitability 0 Suitability for use system protection Adjustable parameters A Adjustable response value current A • of I-trip / Full-scale value A • for N-conductor protection / initial value A • for N-conductor protection / Full-scale value A Adjustable response value current / of the current- A • for N-conductor protection / Full-scale value A Adjustable response value current / of the current- A • for N-conductor protection / Full-scale value | • at 55 °C / Rated value | А | 16 |
| • at 70 °C / Rated value A 15 Auxiliary circuit 0 Number of CO contacts / for auxiliary contacts 0 Suitability 0 Suitability for use system protection Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A 10 • for N-conductor protection / initial value A 0 • for N-conductor protection / Full-scale value A 0 • Adjustable response value current / of the current- A 1 Product details Product details A 1 | ● at 60 °C / Rated value | А | 15 |
| Auxiliary circuit 0 Number of CO contacts / for auxiliary contacts 0 Suitability 0 Suitability for use system protection Adjustable parameters Adjustable parameters Adjustable response value current A • of I-trip / Full-scale value A • for N-conductor protection / initial value A • for N-conductor protection / Full-scale value A Adjustable response value current / of the current- dependent overload release / initial value A Product details Product details | ● at 65 °C / Rated value | А | 15 |
| Number of CO contacts / for auxiliary contacts 0 Suitability system protection Adjustable parameters system protection Adjustable response value current A 10 • of I-trip / Full-scale value A 0 • for N-conductor protection / initial value A 0 • for N-conductor protection / Full-scale value A 0 • for N-conductor protection / Full-scale value A 0 • for N-conductor protection / Full-scale value A 0 • for N-conductor protection / Full-scale value A 0 • for N-conductor protection / Full-scale value A 0 • for N-conductor protection / Full-scale value A 0 • for N-conductor protection / Full-scale value A 0 • for N-conductor protection / Full-scale value A 0 • for N-conductor protection / Full-scale value A 1 • for N-conductor protection / Full-scale value A 1 • for N-conductor protection / I full-scale value A 1 • for N-conductor protection / Full-scale value A 1 • for N-conductor protection / Full-scal | • at 70 °C / Rated value | А | 15 |
| Number of CO contacts / for auxiliary contacts 0 Suitability Suitability for use Suitability for use system protection Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A • for N-conductor protection / initial value A • for N-conductor protection / Full-scale value A | Auxiliary circuit | | |
| Suitability for use system protection Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A 10 • for N-conductor protection / initial value A 0 • for N-conductor protection / Full-scale value A 0 Adjustable response value current / of the current- A 1 Product details Product details Product details | | | 0 |
| Suitability for use system protection Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A 10 • for N-conductor protection / initial value A 0 • for N-conductor protection / Full-scale value A 0 Adjustable response value current / of the current- A 1 Product details Product details Product details | Suitability | | |
| Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A 10 • for N-conductor protection / initial value A 0 • for N-conductor protection / Full-scale value A 0 • Adjustable response value current / of the current- dependent overload release / initial value A 1 | | | system protection |
| Adjustable response value current A 10 • of I-trip / Full-scale value A 10 • for N-conductor protection / initial value A 0 • for N-conductor protection / Full-scale value A 0 • Adjustable response value current / of the current- dependent overload release / initial value A 1 Product details Product details Product details Product details | - | | |
| • of I-trip / Full-scale value A 10 • for N-conductor protection / initial value A 0 • for N-conductor protection / Full-scale value A 0 • Adjustable response value current / of the current- dependent overload release / initial value A 1 | | | |
| for N-conductor protection / initial value A o for N-conductor protection / Full-scale value A o Adjustable response value current / of the current- dependent overload release / initial value Product details | | Δ | 10 |
| for N-conductor protection / Full-scale value A A A A A A A A A A Product details | | | |
| Adjustable response value current / of the current- A 1 dependent overload release / initial value Product details | | | |
| dependent overload release / initial value Product details | | | |
| | | ~ | |
| Product component | Product details | | |
| | Product component | | |

| • Trin indicator | | No |
|---|----|---------------------------|
| • Trip indicator | | No |
| • display | | |
| Voltage trigger | | No |
| undervoltage release | | No |
| undervoltage release with leading contact | | No |
| Product property | | |
| for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof | | No |
| Product expansion / optional / motor drive | _ | No |
| Product function | | |
| Product function | | |
| Intrinsic device protection | | Yes |
| communication function | | No |
| Phase failure detection | | No |
| other measurement function | | No |
| Accessories | | |
| Manufacturer article number / of the supplied basic switch | | <u>3VA1096-4ED36-0AA0</u> |
| Short circuit | | |
| Operational short-circuit current breaking capacity (Ics) | | |
| • at 240 V / Rated value | kA | 55 |
| • at 415 V / Rated value | kA | 36 |
| • at 440 V / Rated value | kA | 25 |
| • at 500 V / Rated value | kA | 15 |
| • at 690 V / Rated value | kA | 5 |
| Maximum short-circuit current breaking capacity (Icu) | - | |
| • at 240 V / Rated value | kA | 55 |
| • at 415 V / Rated value | kA | 36 |
| • at 440 V / Rated value | kA | 25 |
| • at 500 V / Rated value | kA | 16 |
| • at 690 V / Rated value | kA | 7 |
| Short-circuit current making capacity (Icm) | | |
| • at 240 V / Rated value | kA | 121 |
| • at 415 V / Rated value | kA | 75.6 |
| • at 690 V / Rated value | kA | 11.9 |
| Connections | | |
| Arrangement of electrical connectors / for main | | Front terminal |
| current circuit | | |

Type of connectable conductor cross-section

| • of the round co | onductor terminal / str | anded | | 1 x (1.5 - 70 mm²) | |
|--------------------------------------|--------------------------|---------------------------|----|--------------------|-------|
| Type of electrical co | nnection / for main cu | irrent circuit | | Box terminal | |
| Mechanical Design | | | | | |
| Height | | | mm | 130 | |
| Width | | | mm | 76.2 | |
| Depth | | | mm | 70 | |
| Mounting type | | | | fixed mounting | |
| Environmental conc | litions | | | | |
| Ambient temperature | e | | | | |
| during operation | on / minimum | | °C | -25 | |
| during operation | on / maximum | | °C | 70 | |
| during storage | / minimum | | °C | -40 | |
| during storage | during storage / maximum | | °C | 80 | |
| Certificates | | | | | |
| Equipment marking | | | | | |
| acc. to DIN EN | l 61346-2 | | | Q | |
| acc. to DIN EN | 81346-2 | | | Q | |
| General Product Approval | EMC | Declaration Conformity | | pping Approval | other |
| EHC | other | EG-Konf. | | | other |

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

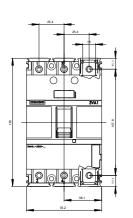
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA10964ED360AA0

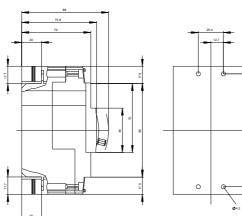
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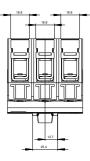
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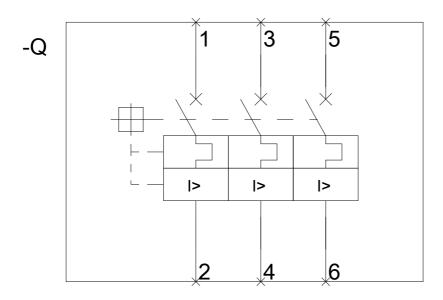
Tender specifications http://ausschreibungstexte.siemens.com/tiplv





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