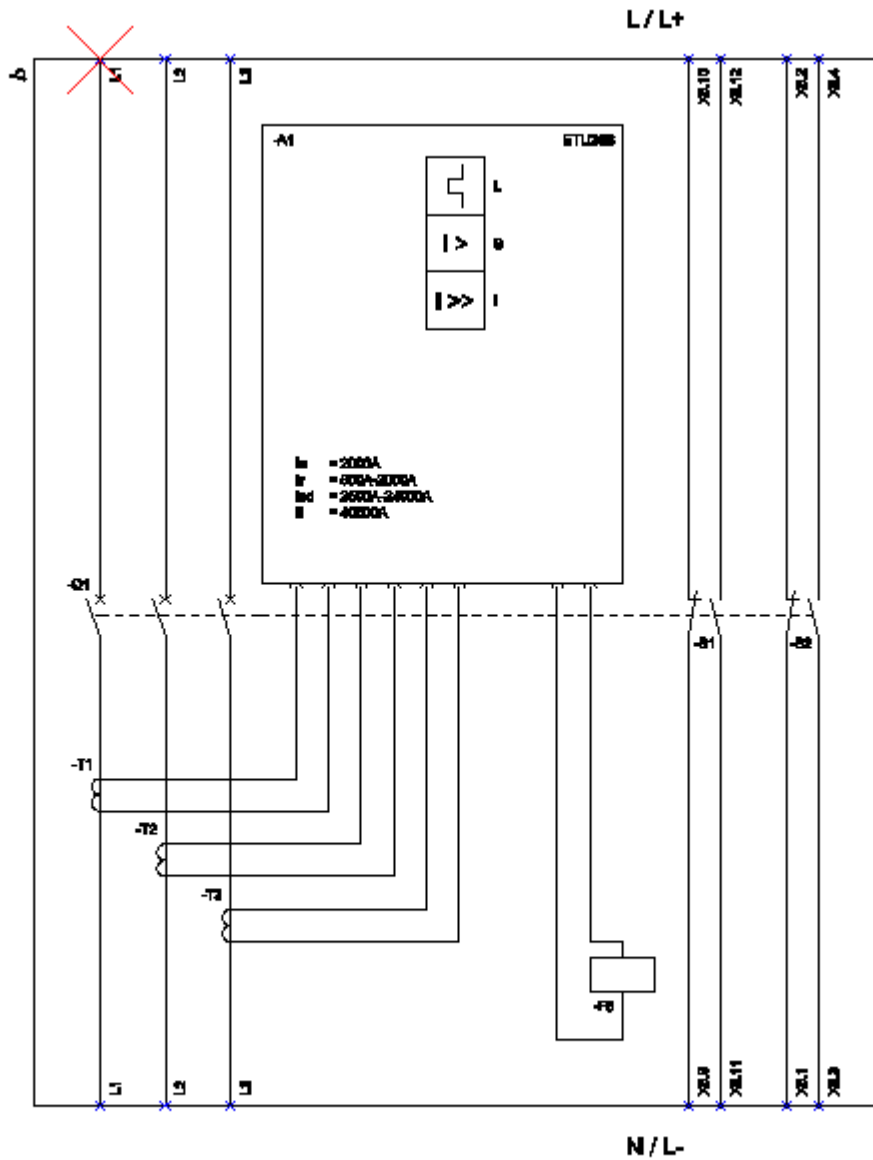


fixed-mounted circuit breaker 3-pole, size II, IEC In=2000A to 690V,
AC50/60Hz Icu=100kA at 500V rear connection horizontal

| Model | |
|--|--|
| product brand name | SENTRON |
| product designation | ACB |
| design of the product | IEC 60947-2 |
| design of the actuating element | Pushbutton |
| type of the driving mechanism | Manual operating mechanism with mechanical closing |
| type of the driving mechanism / motor drive | No |
| design of the overcurrent release | ETU25B |
| General technical data | |
| number of poles | 3 |
| size of the circuit-breaker | 2 |
| utilization category | B |
| circuit-breaker / Design | 3WL1 |
| Voltage | |
| Rated insulation voltage Ui | 1 000 V |
| insulation voltage / rated value | 1 000 V |
| operating voltage | |
| • at AC / at 50/60 Hz / rated value | 690 V |
| Protection class | |
| protection class IP | IP20 |
| protection class IP / on the front | IP20 |
| protection function of the overcurrent release | LSI |
| Dissipation | |
| power loss [W] | |
| • for rated value of the current / at AC / in hot operating state / per pole | 60 W |
| • maximum | 180 W |
| Current | |
| continuous current / rated value / maximum | 2 000 A |
| continuous current / rated value | 2 000 A |
| adjustable current response value current | |
| • of the current-dependent overload release / full-scale value | 2 000 A |
| • of instantaneous short-circuit trip unit / initial value | 40 000 A |
| • of instantaneous short-circuit trip unit / full-scale value | 40 000 A |
| Main circuit | |
| operating frequency | |
| • 1 / rated value | 50 Hz |
| • 2 / rated value | 60 Hz |
| operational current | |
| • at 40 °C / rated value | 2 000 A |
| • at 50 °C / rated value | 2 000 A |
| • at 55 °C / rated value | 2 000 A |
| • at 60 °C / rated value | 2 000 A |
| • at 65 °C / rated value | 2 000 A |
| • at 70 °C / rated value | 2 000 A |
| Auxiliary circuit | |

| | |
|---|--------------------------------------|
| number of NC contacts / for auxiliary contacts | 2 |
| number of NO contacts / for auxiliary contacts | 2 |
| Suitability | |
| suitability for use | Plant / motor protection |
| Adjustable parameters | |
| adjustable current response value current / of the current-dependent overload release / initial value | 800 A |
| Product details | |
| product component | |
| • trip indicator | Yes |
| • voltage trigger | No |
| • undervoltage release | No |
| design of the auxiliary switch | 2 NO + 2 NC |
| product extension / optional / motor drive | Yes |
| Product function | |
| product function | |
| • grounding protection | No |
| • phase failure detection | Yes |
| Display and operation | |
| display version | without display |
| Short circuit | |
| breaking capacity operating short-circuit current (Ics) | |
| • at 415 V / rated value | 100 kA |
| • at 500 V / rated value | 100 kA |
| • at 690 V / rated value | 85 kA |
| breaking capacity maximum short-circuit current (Icu) | |
| • at 415 V / rated value | 100 kA |
| • at 500 V / rated value | 100 kA |
| • at 690 V / rated value | 85 kA |
| Connections | |
| arrangement of electrical connectors / for main current circuit | Main connection rear side horizontal |
| type of electrical connection / for main current circuit | busbar connection |
| Mechanical Design | |
| height | 440.5 mm |
| width | 460 mm |
| depth | 337 mm |
| fastening method | fixed mounting |
| Environmental conditions | |
| ambient temperature / during operation | |
| • minimum | -20 °C |
| • maximum | 70 °C |
| ambient temperature / during storage | |
| • minimum | -40 °C |
| • maximum | 70 °C |
| Certificates | |
| reference code | |
| • acc. to DIN EN 61346-2 | Q |
| • acc. to IEC 81346-2 | Q |
| Further information | |
| Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1220-4CB32-1AA2 | |
| Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3WL1220-4CB32-1AA2 | |
| Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1220-4CB32-1AA2 | |
| Tender specifications http://www.siemens.com/specifications | |



L (Long Time Delay / Überlastschutz); S (Short Time Delay / Kurzschlussschutz, Kurzzeitversögert);
 I (Instantaneous / Kurzschlussschutz, unverögert); F3 (Beiglatz for trip unit / Anmeldekontakt);
 S1 - S3 (Auxiliary switch / Hilfschalter);

last modified:

3/30/2020