

fixed-mounted circuit breaker 3-pole, size I, IEC In=1250A to 690V, AC50/60Hz Icu=66kA at 500V frnt.conn. top/bot. single-hole Overcurrent release ETU 25 LSI protection adjustable 0.4-1 in With manual operating mechanism with storage with mechanical request without 1st auxiliary release With 2nd auxiliary release "R", F3 Undervoltage, instant. 24 V DC 2NO+2NC

| 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                                                  | 1                                                  |
| 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 | 35 W                                               |
| • maximum                                                                    | 105 W                                              |
| Current                                                                      |                                                    |
| operational current                                                          |                                                    |
| • at 40 °C / rated value                                                     | 1 250 A                                            |
| • at 45 °C / rated value                                                     | 1 250 A                                            |
| • at 50 °C / rated value                                                     | 1 250 A                                            |
| • at 55 °C / rated value                                                     | 1 250 A                                            |
| • at 60 °C / rated value                                                     | 1 250 A                                            |
| • at 65 °C / rated value                                                     | 1 250 A                                            |
| • at 70 °C / rated value                                                     | 1 210 A                                            |
| continuous current / rated value / maximum                                   | 1 250 A                                            |
| continuous current / rated value                                             | 1 250 A                                            |
| adjustable current response value current                                    |                                                    |
| • of the current-dependent overload release / full-scale value               | 1 250 A                                            |
| • of instantaneous short-circuit trip unit / minimum                         | 25 000 A                                           |
| • of instantaneous short-circuit trip unit / maximum                         | 25 000 A                                           |
| Main circuit                                                                 |                                                    |
| operating frequency                                                          |                                                    |
| • 1 / rated value                                                            | 50 Hz                                              |
| • 2 / rated value                                                            | 60 Hz                                              |

|                                                                                                       |  |                                              |                           |
|-------------------------------------------------------------------------------------------------------|--|----------------------------------------------|---------------------------|
| 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 |  | 500 A                                        |                           |
| Product details                                                                                       |  |                                              |                           |
| product component                                                                                     |  |                                              |                           |
| • trip indicator                                                                                      |  | Yes                                          |                           |
| • voltage trigger                                                                                     |  | No                                           |                           |
| • undervoltage release                                                                                |  | Yes                                          |                           |
| 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                                                                              |  | 66 kA                                        |                           |
| • at 500 V / rated value                                                                              |  | 66 kA                                        |                           |
| • at 690 V / rated value                                                                              |  | 50 kA                                        |                           |
| breaking capacity maximum short-circuit current (Icu)                                                 |  |                                              |                           |
| • at 415 V / rated value                                                                              |  | 66 kA                                        |                           |
| • at 500 V / rated value                                                                              |  | 66 kA                                        |                           |
| • at 690 V / rated value                                                                              |  | 50 kA                                        |                           |
| Connections                                                                                           |  |                                              |                           |
| arrangement of electrical connectors / for main current circuit                                       |  | Main connection top front/bottom single hole |                           |
| type of electrical connection / for main current circuit                                              |  | busbar connection                            |                           |
| Mechanical Design                                                                                     |  |                                              |                           |
| height                                                                                                |  | 462 mm                                       |                           |
| width                                                                                                 |  | 320 mm                                       |                           |
| depth                                                                                                 |  | 374 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                                        |                           |
| General Product Approval                                                                              |  | EMC                                          | Declaration of Conformity |
|                                                                                                       |  |                                              | Test Certificates         |



[UK Declaration of Conformity](#)

[Type Test Certificates/Test Report](#)

**Test Certificates**

**Marine / Shipping**

[Special Test Certificate](#)

[Miscellaneous](#)



Marine / Shipping

other

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[Confirmation](#)

[Environmental Confirmations](#)

[Miscellaneous](#)

[Miscellaneous](#)

Dangerous Good

[Transport Information](#)

#### Further information

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1112-3CB33-1AJ2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1112-3CB33-1AJ2>

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

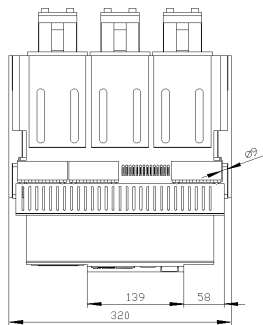
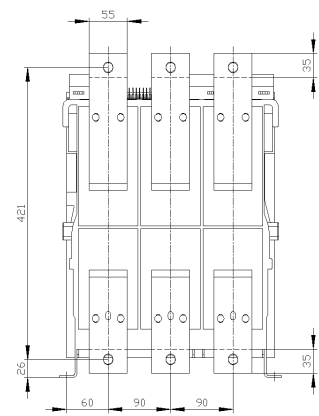
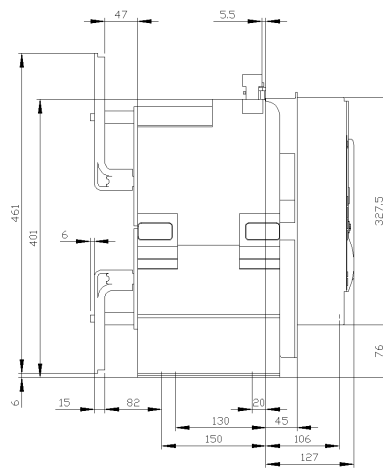
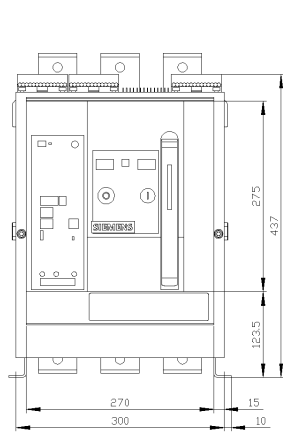
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3WL1112-3CB33-1AJ2](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1112-3CB33-1AJ2)

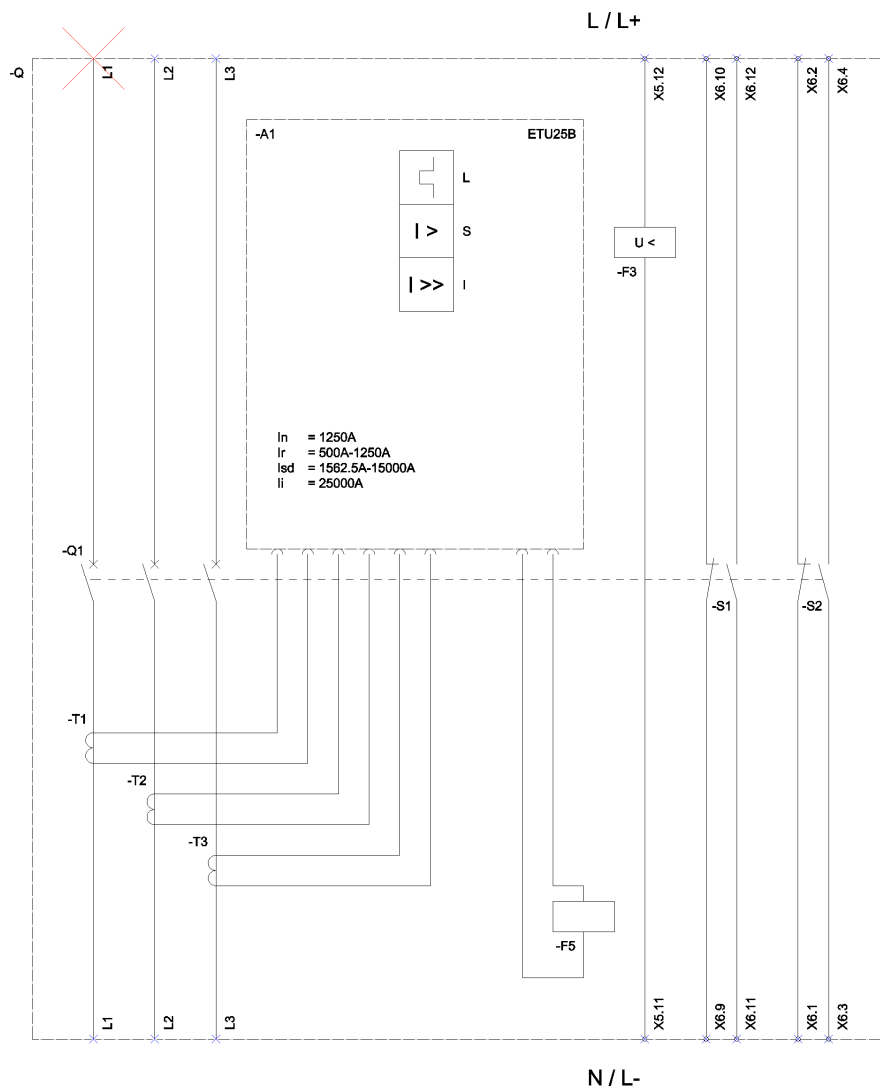
CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>





L (Long Time Delay / Überlastschutz); S (Short Time Delay / Kurzschlusschutz, kurzzeitverzögert);  
 I (Instantaneous / Kurzschlusschutz, unverzögert); F3 (Undervoltage release / Unterspannungsauslöser); F5 (Maglatch for trip unit / Auslösemagnet);  
 S1 - S8 (Auxiliary switch / Hilfsschalter);

last modified:

4/4/2020 

