

fixed-mounted circuit breaker 3-pole, size I, IEC In=1600A to 690V, AC50/60Hz Icu=55kA at 500V rear connection horizontal Overcurrent release ETU 15 LI protection adjustable 0.5-1 in Motorized/manual operating mechanism with spring charging motor AC 50/60 Hz 208-240 V or 220-250 V DC Activation AC 50/60 Hz 230 V, 220 V DC With 1st auxiliary release Shunt release "F", F1 50/60 Hz 230 V AC/220 V DC, 100% on-load factor without 2nd auxiliary release 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/motorized operating mechanism with mechanical and electrical closing |
| type of the driving mechanism / motor drive                                  | Yes                                                                         |
| design of the overcurrent release                                            | ETU15B                                                                      |
| 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                               | LI                                                                          |
| Dissipation                                                                  |                                                                             |
| power loss [W]                                                               |                                                                             |
| • for rated value of the current / at AC / in hot operating state / per pole | 50 W                                                                        |
| • maximum                                                                    | 150 W                                                                       |
| Current                                                                      |                                                                             |
| operational current                                                          |                                                                             |
| • at 40 °C / rated value                                                     | 1 600 A                                                                     |
| • at 45 °C / rated value                                                     | 1 600 A                                                                     |
| • at 50 °C / rated value                                                     | 1 600 A                                                                     |
| • at 55 °C / rated value                                                     | 1 600 A                                                                     |
| • at 60 °C / rated value                                                     | 1 600 A                                                                     |
| • at 65 °C / rated value                                                     | 1 600 A                                                                     |
| • at 70 °C / rated value                                                     | 1 490 A                                                                     |
| continuous current / rated value / maximum                                   | 1 600 A                                                                     |
| continuous current / rated value                                             | 1 600 A                                                                     |
| adjustable current response value current                                    |                                                                             |
| • of the current-dependent overload release / full-scale value               | 1 600 A                                                                     |
| • of instantaneous short-circuit trip unit / minimum                         | 3 200 A                                                                     |
| • of instantaneous short-circuit trip unit / maximum                         | 12 800 A                                                                    |
| Main circuit                                                                 |                                                                             |
| operating frequency                                                          |                                                                             |

|                                                                                                                                            |                                                                                     |                                                                                     |                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>• 1 / rated value</li><li>• 2 / rated value</li></ul>                                                | 50 Hz                                                                               |                                                                                     |                                                                                     |
|                                                                                                                                            | 60 Hz                                                                               |                                                                                     |                                                                                     |
| Auxiliary circuit                                                                                                                          |                                                                                     |                                                                                     |                                                                                     |
| number of NC contacts / for auxiliary contacts                                                                                             | 2                                                                                   |                                                                                     |                                                                                     |
| number of NO contacts / for auxiliary contacts                                                                                             | 2                                                                                   |                                                                                     |                                                                                     |
| Suitability                                                                                                                                |                                                                                     |                                                                                     |                                                                                     |
| suitability for use                                                                                                                        | system protection                                                                   |                                                                                     |                                                                                     |
| Adjustable parameters                                                                                                                      |                                                                                     |                                                                                     |                                                                                     |
| adjustable current response value current / of the current-dependent overload release / initial value                                      | 800 A                                                                               |                                                                                     |                                                                                     |
| Product details                                                                                                                            |                                                                                     |                                                                                     |                                                                                     |
| product component                                                                                                                          |                                                                                     |                                                                                     |                                                                                     |
| <ul style="list-style-type: none"><li>• trip indicator</li><li>• voltage trigger</li><li>• undervoltage release</li></ul>                  | Yes<br>Yes<br>No                                                                    |                                                                                     |                                                                                     |
| design of the auxiliary switch                                                                                                             | 2 NO + 2 NC                                                                         |                                                                                     |                                                                                     |
| product extension / optional / motor drive                                                                                                 | No                                                                                  |                                                                                     |                                                                                     |
| Product function                                                                                                                           |                                                                                     |                                                                                     |                                                                                     |
| product function                                                                                                                           |                                                                                     |                                                                                     |                                                                                     |
| <ul style="list-style-type: none"><li>• grounding protection</li><li>• phase failure detection</li></ul>                                   | No<br>No                                                                            |                                                                                     |                                                                                     |
| Display and operation                                                                                                                      |                                                                                     |                                                                                     |                                                                                     |
| display version                                                                                                                            | without display                                                                     |                                                                                     |                                                                                     |
| Short circuit                                                                                                                              |                                                                                     |                                                                                     |                                                                                     |
| breaking capacity operating short-circuit current (Ics)                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| <ul style="list-style-type: none"><li>• at 415 V / rated value</li><li>• at 500 V / rated value</li><li>• at 690 V / rated value</li></ul> | 55 kA<br>55 kA<br>42 kA                                                             |                                                                                     |                                                                                     |
| breaking capacity maximum short-circuit current (Icu)                                                                                      |                                                                                     |                                                                                     |                                                                                     |
| <ul style="list-style-type: none"><li>• at 415 V / rated value</li><li>• at 500 V / rated value</li><li>• at 690 V / rated value</li></ul> | 55 kA<br>55 kA<br>42 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                                                                                                                                     | 439.5 mm                                                                            |                                                                                     |                                                                                     |
| width                                                                                                                                      | 320 mm                                                                              |                                                                                     |                                                                                     |
| depth                                                                                                                                      | 337 mm                                                                              |                                                                                     |                                                                                     |
| fastening method                                                                                                                           | fixed mounting                                                                      |                                                                                     |                                                                                     |
| Environmental conditions                                                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| ambient temperature / during operation                                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| <ul style="list-style-type: none"><li>• minimum</li><li>• maximum</li></ul>                                                                | -20 °C<br>70 °C                                                                     |                                                                                     |                                                                                     |
| ambient temperature / during storage                                                                                                       |                                                                                     |                                                                                     |                                                                                     |
| <ul style="list-style-type: none"><li>• minimum</li><li>• maximum</li></ul>                                                                | -40 °C<br>70 °C                                                                     |                                                                                     |                                                                                     |
| General Product Approval                                                                                                                   | EMC                                                                                 | Declaration of Conformity                                                           | Test Certificates                                                                   |
|                                                         |  |  |  |
|                                                                                                                                            |                                                                                     | <a href="#">UK Declaration of Conformity</a>                                        | <a href="#">Miscellaneous</a>                                                       |
| Test Certificates                                                                                                                          | Marine / Shipping                                                                   |                                                                                     |                                                                                     |

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



Marine / Shipping

other

[CCS / China Classification Society](#)



[Miscellaneous](#)

[Confirmation](#)

[Environmental Confirmations](#)

[Miscellaneous](#)

Dangerous Good

[Transport Information](#)

#### Further information

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1116-2BB32-4GA2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1116-2BB32-4GA2>

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

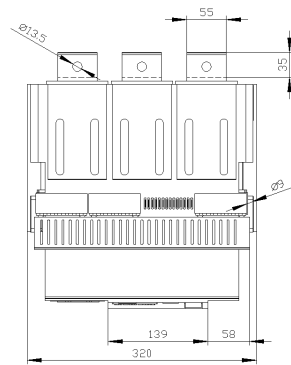
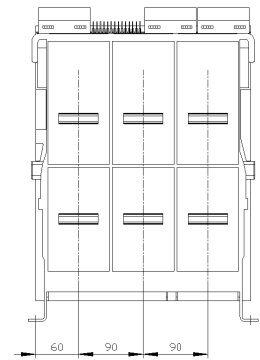
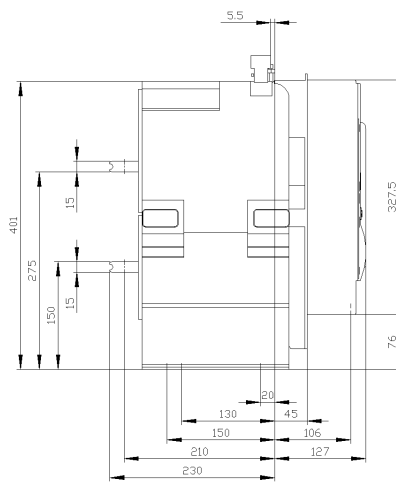
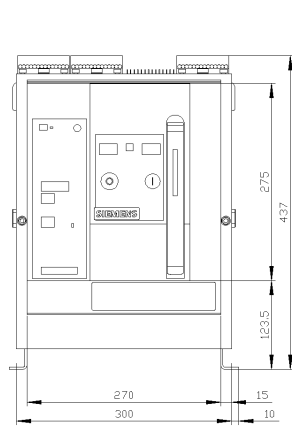
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3WL1116-2BB32-4GA2](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1116-2BB32-4GA2)

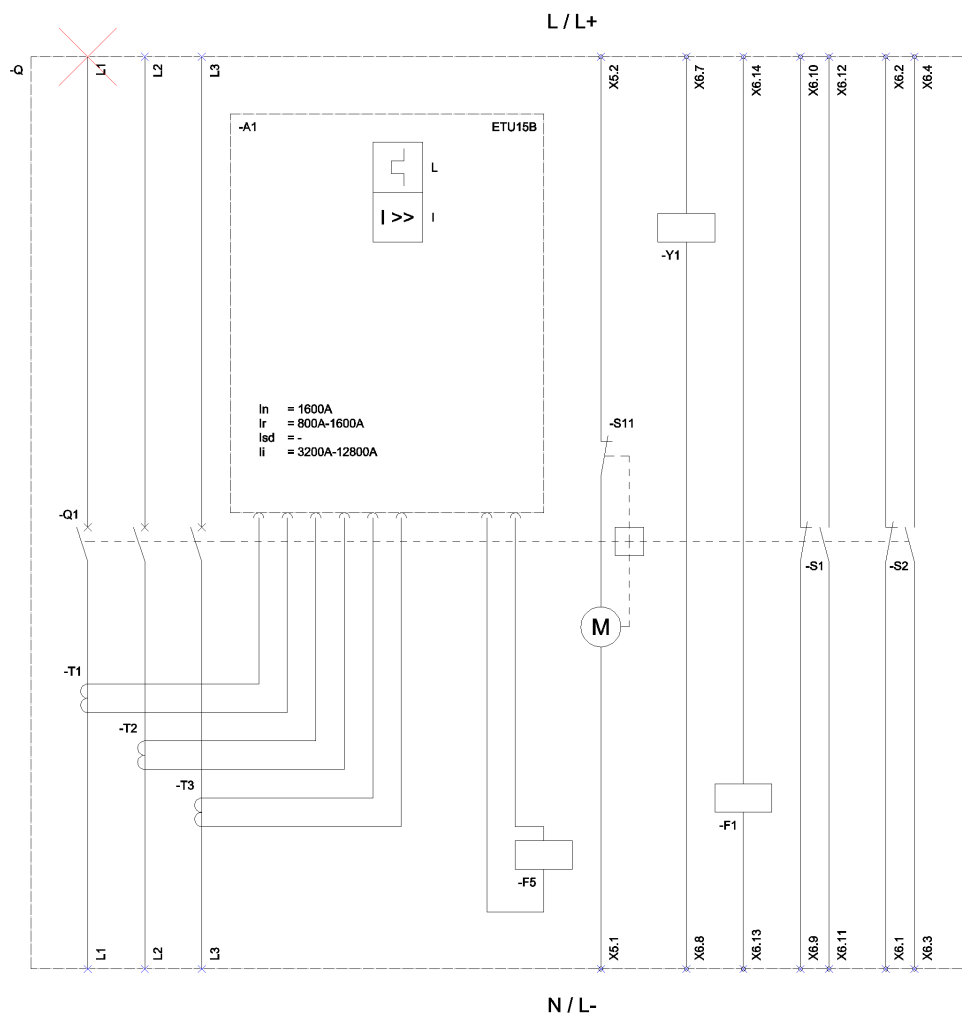
CAX-Online-Generator

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

Tender specifications

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





L (Long Time Delay / Überlastschutz); I (Instantaneous / Kurzschlusschutz, unverzögert);  
 S11 (Internal motor shutdown switch, if spring is tensioned / Interner Motorabstellschalter, wenn Feder gespannt); F1 (1st auxiliary release / Erster Hilfsauslöser);  
 F5 (Maglatch for trip unit / Auslösemagnet); S1 - S8 (Auxiliary switch / Hilfsschalter); Y1 (Closing coil / Einschaltmagnet);

last modified:

4/5/2020

