

fixed-mounted circuit breaker 3-pole, size II, IEC In=2000A to 690V, AC50/60Hz Icu=100kA at 500V frnt.conn. top/bot. dual-hole Overcurrent release ETU 25 LSI protection adjustable 0.4-1 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 without 1st auxiliary release With 2nd auxiliary release "R", F3 Undervoltage, instant. 208-240 V AC, 220-250 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/motorized operating mechanism with mechanical and electrical closing |
| type of the driving mechanism / motor drive                                  | Yes                                                                         |
| 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                                                                      |                                                                             |
| operational current                                                          |                                                                             |
| • at 40 °C / rated value                                                     | 2 000 A                                                                     |
| • at 45 °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                                                                     |
| 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 / minimum                         | 40 000 A                                                                    |
| • of instantaneous short-circuit trip unit / maximum                         | 40 000 A                                                                    |
| Main circuit                                                                 |                                                                             |
| operating frequency                                                          |                                                                             |
| • 1 / rated value                                                            | 50 Hz                                                                       |
| • 2 / rated value                                                            | 60 Hz                                                                       |

|                                                                                                       |                                              |                                  |
|-------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------|
| <b>Auxiliary circuit</b>                                                                              |                                              |                                  |
| number of NC contacts / for auxiliary contacts                                                        | 2                                            |                                  |
| number of NO contacts / for auxiliary contacts                                                        | 2                                            |                                  |
| <b>Suitability</b>                                                                                    |                                              |                                  |
| suitability for use                                                                                   | Plant / motor protection                     |                                  |
| <b>Adjustable parameters</b>                                                                          |                                              |                                  |
| adjustable current response value current / of the current-dependent overload release / initial value | 800 A                                        |                                  |
| <b>Product details</b>                                                                                |                                              |                                  |
| 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                                                            | No                                           |                                  |
| <b>Product function</b>                                                                               |                                              |                                  |
| product function                                                                                      |                                              |                                  |
| • grounding protection                                                                                | No                                           |                                  |
| • phase failure detection                                                                             | Yes                                          |                                  |
| <b>Display and operation</b>                                                                          |                                              |                                  |
| display version                                                                                       | without display                              |                                  |
| <b>Short circuit</b>                                                                                  |                                              |                                  |
| operating short-circuit current breaking capacity (Ics)                                               |                                              |                                  |
| • at 415 V / rated value                                                                              | 100 kA                                       |                                  |
| • at 500 V / rated value                                                                              | 100 kA                                       |                                  |
| • at 690 V / rated value                                                                              | 85 kA                                        |                                  |
| maximum short-circuit current breaking capacity (Icu)                                                 |                                              |                                  |
| • at 415 V / rated value                                                                              | 100 kA                                       |                                  |
| • at 500 V / rated value                                                                              | 100 kA                                       |                                  |
| • at 690 V / rated value                                                                              | 85 kA                                        |                                  |
| <b>Connections</b>                                                                                    |                                              |                                  |
| arrangement of electrical connectors / for main current circuit                                       | Main connection top front/bottom double hole |                                  |
| type of electrical connection / for main current circuit                                              | busbar connection                            |                                  |
| <b>Mechanical Design</b>                                                                              |                                              |                                  |
| height                                                                                                | 507 mm                                       |                                  |
| width                                                                                                 | 460 mm                                       |                                  |
| depth                                                                                                 | 369 mm                                       |                                  |
| fastening method                                                                                      | fixed mounting                               |                                  |
| <b>Environmental conditions</b>                                                                       |                                              |                                  |
| ambient temperature / during operation                                                                |                                              |                                  |
| • minimum                                                                                             | -20 °C                                       |                                  |
| • maximum                                                                                             | 70 °C                                        |                                  |
| ambient temperature / during storage                                                                  |                                              |                                  |
| • minimum                                                                                             | -40 °C                                       |                                  |
| • maximum                                                                                             | 70 °C                                        |                                  |
| <b>General Product Approval</b>                                                                       |                                              | <b>EMC</b>                       |
|                                                                                                       |                                              | <b>Declaration of Conformity</b> |

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#### Further information

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1220-4CB34-4AN2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1220-4CB34-4AN2>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3WL1220-4CB34-4AN2](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1220-4CB34-4AN2)

**CAX-Online-Generator**

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

**Tender specifications**

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





