

Draw-out circuit breaker Without guide frame 3-pole, Size 2, IEC In=2000 A to 690 V, 50/60 Hz AC Icu=85 kA at 500 V Rear horizontal connection 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 With 1st auxiliary release Shunt release "F", F1 50/60 Hz 230 V AC/220 V DC, 100% on-load factor With 2nd auxiliary release "RC", F4 Undervoltage, Delay 0.2-3.2s 208-240 V AC, 220-250 V DC, 100% ED 4NO+4NC C01= mechanical switching cycle counter K07= Tripped signaling contact, 1 CO not possible with option F02

| 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                          | 106.7 W                                                                     |
| • maximum                                                                                             | 320 W                                                                       |
| Main circuit                                                                                          |                                                                             |
| operating frequency                                                                                   |                                                                             |
| • 1 / rated value                                                                                     | 50 Hz                                                                       |
| • 2 / rated value                                                                                     | 60 Hz                                                                       |
| Auxiliary circuit                                                                                     |                                                                             |
| number of NC contacts / for auxiliary contacts                                                        | 4                                                                           |
| number of NO contacts / for auxiliary contacts                                                        | 4                                                                           |
| 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                                                                                     | Yes                                                                         |
| • undervoltage release                                                                                | Yes                                                                         |
| design of the auxiliary switch                                                                        | 4 NO + 4 NC                                                                 |

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| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 85 kA               |
| • at 500 V / rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 85 kA               |
| • at 690 V / rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 75 kA               |
| maximum short-circuit current breaking capacity (Icu)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                     |
| • at 415 V / rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 85 kA               |
| • at 500 V / rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 85 kA               |
| • at 690 V / rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 75 kA               |
| <b>Connections</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |
| arrangement of electrical connectors / for main current circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | without guide frame |
| type of electrical connection / for main current circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Blade contacts      |
| <b>Mechanical Design</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     |
| height                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 411.5 mm            |
| width                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 451 mm              |
| depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 337 mm              |
| fastening method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | drawer unit         |
| <b>Environmental conditions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |
| ambient temperature / during operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     |
| • minimum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -40 °C              |
| • maximum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 70 °C               |
| ambient temperature / during storage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |
| • minimum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -40 °C              |
| • maximum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 80 °C               |
| <b>Further information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     |
| <b>Information on the packaging</b><br><a href="https://support.industry.siemens.com/cs/ww/en/view/109813875">https://support.industry.siemens.com/cs/ww/en/view/109813875</a><br><b>Industry Mall (Online ordering system)</b><br><a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1220-3CB65-4GS4-Z C01+K07">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1220-3CB65-4GS4-Z C01+K07</a><br><b>Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)</b><br><a href="https://support.industry.siemens.com/cs/ww/en/ps/3WL1220-3CB65-4GS4-Z C01+K07">https://support.industry.siemens.com/cs/ww/en/ps/3WL1220-3CB65-4GS4-Z C01+K07</a><br><b>Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)</b><br><a href="http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1220-3CB65-4GS4-Z C01+K07">http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1220-3CB65-4GS4-Z C01+K07</a><br><b>CAX-Online-Generator</b><br><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a><br><b>Tender specifications</b><br><a href="http://www.siemens.com/specifications">http://www.siemens.com/specifications</a> |                     |





