

FIXED-MOUNTED CIRCUIT BREAKER 3-POLE, SIZE I, IEC IN=1600A TO 690V, AC50/60HZ ICU=55KA AT 500V FRNT.CONN. TOP/BOT. DUAL-HOLE

| Model                                       |  |                                                                             |
|---------------------------------------------|--|-----------------------------------------------------------------------------|
| product brandname                           |  | SENTRON                                                                     |
| Product designation                         |  | ACB                                                                         |
| Design of the operating mechanism           |  | 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                          |  | 1       |
| Electrical endurance (switching cycles) / typical    |  | 20 000  |
| Usage category                                       |  | B       |
| circuit-breaker / Design                             |  | 3WL1116 |
| Mechanical service life (switching cycles) / typical |  | 20 000  |

| Voltage                     |   |       |
|-----------------------------|---|-------|
| Rated insulation voltage Ui | V | 1 000 |

| Protection class                               |  |      |
|------------------------------------------------|--|------|
| Protection class IP                            |  | IP20 |
| Protective function of the overcurrent release |  | LSI  |

| Dissipation                                                                  |   |     |
|------------------------------------------------------------------------------|---|-----|
| Power loss [W]                                                               |   |     |
| • for rated value of the current / at AC / in hot operating state / per pole | W | 50  |
| • maximum                                                                    | W | 150 |

| Electricity                                                   |    |        |
|---------------------------------------------------------------|----|--------|
| Continuous current / rated value                              | A  | 1 600  |
| Adjustable pick-up value current                              |    |        |
| • of instantaneous short-circuit trip unit / initial value    | A  | 32 000 |
| • of instantaneous short-circuit trip unit / Full-scale value | A  | 32 000 |
| Short-time current resistance (Icw)                           |    |        |
| • limited to 0.5 s / rated value                              | kA | 55     |

- limited to 1 s / rated value
- limited to 2 s / rated value
- limited to 3 s / rated value

|    |      |
|----|------|
| kA | 42   |
| kA | 29.5 |
| kA | 24   |

#### Main circuit

|                                     |    |       |
|-------------------------------------|----|-------|
| <b>Operating frequency</b>          |    |       |
| • 1 / rated value                   | Hz | 50    |
| • 2 / rated value                   | Hz | 60    |
| <b>Operating voltage</b>            |    |       |
| • at AC / at 50/60 Hz / rated value | V  | 690   |
| <b>Operating current</b>            |    |       |
| • at 40 °C / rated value            | A  | 1 600 |
| • at 50 °C / rated value            | A  | 1 600 |
| • at 55 °C / rated value            | A  | 1 600 |
| • at 60 °C / rated value            | A  | 1 600 |
| • at 65 °C / rated value            | A  | 1 600 |
| • at 70 °C / rated value            | A  | 1 490 |

#### Suitability

|                            |  |                          |
|----------------------------|--|--------------------------|
| <b>Suitability for use</b> |  | Plant / motor protection |
|----------------------------|--|--------------------------|

#### Product details

|                                            |  |     |
|--------------------------------------------|--|-----|
| <b>Product component</b>                   |  |     |
| • Trip indicator                           |  | Yes |
| • Voltage trigger                          |  | No  |
| • undervoltage release                     |  | Yes |
| Product extension / optional / motor drive |  | No  |

#### Product function

|                           |  |    |
|---------------------------|--|----|
| <b>Product function</b>   |  |    |
| • Ground fault protection |  | No |

#### Display and operation

|                        |  |                 |
|------------------------|--|-----------------|
| <b>Display version</b> |  | without display |
|------------------------|--|-----------------|

#### Short circuit

|                                                                  |    |    |
|------------------------------------------------------------------|----|----|
| <b>Operational short-circuit current breaking capacity (Ics)</b> |    |    |
| • at 415 V / rated value                                         | kA | 55 |
| • at 500 V / rated value                                         | kA | 55 |
| • at 690 V / rated value                                         | kA | 42 |
| <b>Maximum short-circuit current breaking capacity (Icu)</b>     |    |    |
| • at 415 V / rated value                                         | kA | 55 |
| • at 500 V / rated value                                         | kA | 55 |
| • at 690 V / rated value                                         | kA | 42 |

## Connections

|                                                                 |  |                                              |
|-----------------------------------------------------------------|--|----------------------------------------------|
| 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                            |

## Mechanical Design

|               |    |                |
|---------------|----|----------------|
| Height        | mm | 541            |
| Width         | mm | 320            |
| Depth         | mm | 374            |
| Mounting type |    | fixed mounting |

## Environmental conditions

|                              |    |     |
|------------------------------|----|-----|
| <b>Ambient temperature</b>   |    |     |
| • during operation / minimum | °C | -20 |
| • during operation / maximum | °C | 70  |
| • during storage / minimum   | °C | -40 |
| • during storage / maximum   | °C | 70  |

## Certificates

|                          |  |   |
|--------------------------|--|---|
| <b>Equipment marking</b> |  |   |
| • acc. to DIN EN 61346-2 |  | Q |
| • acc. to DIN EN 81346-2 |  | Q |

| General Product Approval                                                                   | Declaration of Conformity                                                                  | Test Certificates                                                                               | Shipping Approval                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>CCC | <br>VDE | <br>EG-Konf. | <div> <div> <a href="#">spezielle Prüfbescheinigungen</a><br/>n           </div> <div> <a href="#">sonstig</a> </div> </div> <br>ABS |

## Shipping Approval



## other

[Umweltbestätigung](#) [sonstig](#)

## Further information

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1116-2CB34-4AN2-Z C11+C22+K07>

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

<http://support.automation.siemens.com/WW/view/en/3WL1116-2CB34-4AN2-Z C11+C22+K07/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3WL1116-2CB34-4AN2-Z C11+C22+K07](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1116-2CB34-4AN2-Z C11+C22+K07)

**CAX-Online-Generator**

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

**Tender specifications**

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

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