

WITHDRAWABLE CIRCUIT BREAKER WITH GUIDE  
FRAME 3-POLE, SIZE I, IEC IN=1600A TO 690V,  
AC50/60HZ ICU=66KA AT 500V REAR CONNECTION  
HORIZONTAL

| Model                                                                        |   |                                                    |
|------------------------------------------------------------------------------|---|----------------------------------------------------|
| product brandname                                                            |   | SENTRON                                            |
| Product designation                                                          |   | ACB                                                |
| Design of the operating mechanism                                            |   | Pushbutton                                         |
| Type of the driving mechanism                                                |   | Manual operating mechanism with mechanical closing |
| Type of the driving mechanism / motor drive                                  |   | No                                                 |
| Design of the overcurrent release                                            |   | ETU25B                                             |
| General technical data                                                       |   |                                                    |
| Number of poles                                                              |   | 3                                                  |
| Size of the circuit-breaker                                                  |   | 1                                                  |
| 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 $U_i$                                               | V | 1 000                                              |
| Insulation voltage / rated value                                             | 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 | 116.7                                              |
| • maximum                                                                    | W | 350                                                |
| 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                                             |

|                                                                             |    |                          |
|-----------------------------------------------------------------------------|----|--------------------------|
| <b>Short-time current resistance (I<sub>cw</sub>)</b>                       |    |                          |
| • limited to 0.5 s / rated value                                            | kA | 66                       |
| • limited to 1 s / rated value                                              | kA | 50                       |
| • limited to 2 s / rated value                                              | kA | 35                       |
| • limited to 3 s / rated value                                              | kA | 29                       |
| <b>Main circuit</b>                                                         |    |                          |
| <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                    |
| <b>Auxiliary circuit</b>                                                    |    |                          |
| <b>Number of NC contacts / for auxiliary contacts</b>                       |    | 2                        |
| <b>Number of NO contacts / for auxiliary contacts</b>                       |    | 2                        |
| <b>Suitability</b>                                                          |    |                          |
| <b>Suitability for use</b>                                                  |    | Plant / motor protection |
| <b>Product details</b>                                                      |    |                          |
| <b>Product component</b>                                                    |    |                          |
| • Trip indicator                                                            |    | Yes                      |
| • Voltage trigger                                                           |    | No                       |
| • undervoltage release                                                      |    | No                       |
| Product extension / optional / motor drive                                  |    | Yes                      |
| <b>Product function</b>                                                     |    |                          |
| <b>Product function</b>                                                     |    |                          |
| • Ground fault protection                                                   |    | No                       |
| <b>Display and operation</b>                                                |    |                          |
| <b>Display version</b>                                                      |    | without display          |
| <b>Short circuit</b>                                                        |    |                          |
| <b>Operational short-circuit current breaking capacity (I<sub>cs</sub>)</b> |    |                          |
| • at 415 V / rated value                                                    | kA | 66                       |
| • at 500 V / rated value                                                    | kA | 66                       |

|                                                              |    |     |
|--------------------------------------------------------------|----|-----|
| • at 690 V / rated value                                     | kA | 50  |
| <b>Maximum short-circuit current breaking capacity (Icu)</b> |    |     |
| • at 415 V / rated value                                     | kA | 66  |
| • at 500 V / rated value                                     | kA | 66  |
| • at 690 V / rated value                                     | kA | 50  |
| <b>Short-circuit current making capacity (Icm)</b>           |    |     |
| • at 415 V / rated value                                     | kA | 145 |
| • at 500 V / rated value                                     | kA | 145 |
| • at 690 V / rated value                                     | kA | 105 |

## Connections

|                                                                 |  |                                      |
|-----------------------------------------------------------------|--|--------------------------------------|
| Arrangement of electrical connectors / for main current circuit |  | Main terminal on the rear horizontal |
| Type of electrical connection / for main current circuit        |  | busbar connection                    |

## Mechanical Design

|                      |    |             |
|----------------------|----|-------------|
| <b>Height</b>        | mm | 460         |
| <b>Width</b>         | mm | 320         |
| <b>Depth</b>         | mm | 456         |
| <b>Mounting type</b> |    | drawer unit |

## 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<br>Conformity                                                        | Test<br>Certificates                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------|
|  |  |  |  |  | <a href="#">spezielle<br/>Prüfbescheinigunge<br/>n</a> |
| CB                                                                                | CCC                                                                               | VDE                                                                               |                                                                                   | EG-Konf.                                                                            |                                                        |

| Test<br>Certificates    | Shipping Approval                                                                 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <a href="#">sonstig</a> |  |  |  |  |  |
|                         | ABS                                                                               | BUREAU<br>VERITAS                                                                 | DNV                                                                               | GL                                                                                  | LRS                                                                                 |

| Shipping Approval                                                                 | other                                                                             |                                                           |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------|
|  |  | <a href="#">Umweltbestätigung</a> <a href="#">sonstig</a> |
| PRS                                                                               | RMRS                                                                              |                                                           |

#### Further information

##### Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3WL1116-3CB36-1AA2-Z K07>

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

<http://support.automation.siemens.com/WW/view/en/3WL1116-3CB36-1AA2-Z K07/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3WL1116-3CB36-1AA2-Z K07](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1116-3CB36-1AA2-Z K07)

##### CAX-Online-Generator

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

##### Tender specifications

<http://ausschreibungstexte.siemens.com/tiplv>

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