

FIXED-MOUNTED CIRCUIT BREAKER 3-POLE, SIZE  
I, IEC IN=1250A TO 690V, AC50/60HZ ICU=66KA AT  
500V FRNT.CONN. TOP/BOT. SINGLE-HOLE



| Model                                       |  |                                                                             |
|---------------------------------------------|--|-----------------------------------------------------------------------------|
| Product brand name                          |  | SENTRON                                                                     |
| Product designation                         |  | ACB                                                                         |
| Design of the auxiliary switch              |  | 2 NO + 2 NC                                                                 |
| 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                             |  | 3WL1112 |
| 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]                                                                                                               |   |     |
| <ul style="list-style-type: none"> <li>for rated value of the current / at AC / in hot operating state / per pole</li> </ul> | W | 35  |
| <ul style="list-style-type: none"> <li>maximum</li> </ul>                                                                    | W | 105 |

| Electricity                                                                                                   |    |        |
|---------------------------------------------------------------------------------------------------------------|----|--------|
| Operating current / at 45 °C / rated value                                                                    | A  | 1 250  |
| Continuous current / rated value                                                                              | A  | 1 250  |
| Adjustable pick-up value current                                                                              |    |        |
| <ul style="list-style-type: none"> <li>of instantaneous short-circuit trip unit / initial value</li> </ul>    | A  | 25 000 |
| <ul style="list-style-type: none"> <li>of instantaneous short-circuit trip unit / Full-scale value</li> </ul> | A  | 25 000 |
| Short-time current resistance (Icw)                                                                           |    |        |
| <ul style="list-style-type: none"> <li>limited to 0.5 s / rated value</li> </ul>                              | kA | 66     |
| <ul style="list-style-type: none"> <li>limited to 2 s / rated value</li> </ul>                                | kA | 35     |
| <ul style="list-style-type: none"> <li>limited to 3 s / rated value</li> </ul>                                | kA | 29     |

| Main circuit                                                      |    |    |
|-------------------------------------------------------------------|----|----|
| Operating frequency                                               |    |    |
| <ul style="list-style-type: none"> <li>1 / rated value</li> </ul> | 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  | 1 250 |
| • at 50 °C / rated value            | A  | 1 250 |
| • at 55 °C / rated value            | A  | 1 250 |
| • at 60 °C / rated value            | A  | 1 250 |
| • at 65 °C / rated value            | A  | 1 250 |
| • at 70 °C / rated value            | A  | 1 210 |

|                                                       |  |   |
|-------------------------------------------------------|--|---|
| <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>Adjustable parameters</b>                                         |   |        |
| <b>Adjustable pick-up value current</b>                              |   |        |
| • of the short-time delayed short-circuit release / initial value    | A | 1 563  |
| • of the short-time delayed short-circuit release / Full-scale value | A | 15 000 |

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

|                           |  |    |
|---------------------------|--|----|
| <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 (Ics)</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-time current resistance (I<sub>cw</sub>) / limited to 1 s / rated value</b> | kA | 50 |

## Connections

|                                                                 |  |                                              |
|-----------------------------------------------------------------|--|----------------------------------------------|
| Arrangement of electrical connectors / for main current circuit |  | Main connection top front/bottom single hole |
| Type of electrical connection / for main current circuit        |  | busbar connection                            |

## Mechanical Design

|                      |    |                |
|----------------------|----|----------------|
| <b>Height</b>        | mm | 462            |
| <b>Width</b>         | mm | 320            |
| <b>Depth</b>         | mm | 374            |
| <b>Mounting type</b> |    | 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             |                                          |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------|------------------------------------------|
|  |  |  |  | <a href="#">Miscellaneous</a> | <a href="#">Special Test Certificate</a> |
| CB                                                                                | CCC                                                                               | VDE                                                                               | EG-Konf.                                                                          |                               |                                          |

| Shipping Approval                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |  |
| ABS                                                                               | BUREAU VERITAS                                                                    | DNV                                                                               | GL                                                                                | LRS                                                                                 | PRS                                                                                 |

| Shipping Approval                                                                 | other                                       |                               |  |  |  |
|-----------------------------------------------------------------------------------|---------------------------------------------|-------------------------------|--|--|--|
|  | <a href="#">Environmental Confirmations</a> | <a href="#">Miscellaneous</a> |  |  |  |
| RMRS                                                                              |                                             |                               |  |  |  |

#### Further information

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

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1112-3CB33-1AJ2-Z C22+K07+M06+M21>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1112-3CB33-1AJ2-Z C22+K07+M06+M21>

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

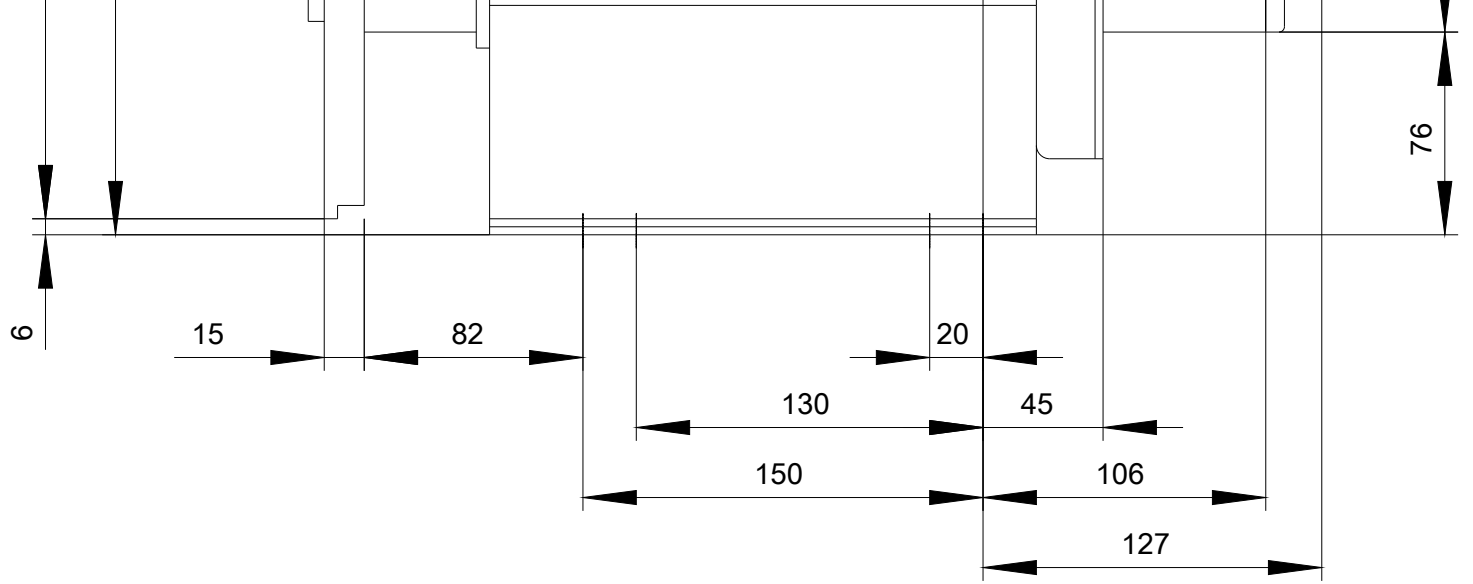
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3WL1112-3CB33-1AJ2-Z C22+K07+M06+M21](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1112-3CB33-1AJ2-Z C22+K07+M06+M21)

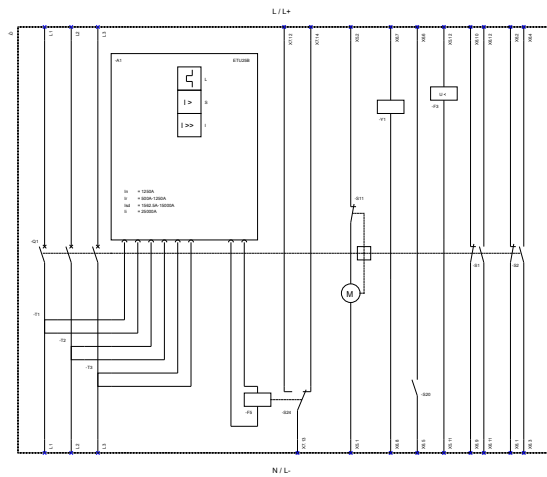
##### CAX-Online-Generator

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

##### Tender specifications

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





1 (Long Time Delay / Überstromschutz) 2 (Short Time Delay / Kurzstromschutz, kurzzeitschutz) 3 (Instantaneous / Kurzstromschutz, unimverzögert)  
 S17 (Interlock motor shutdown switch, 1-fasing to terminal) / Sperrschalter (Schalter, 1-fasing zum Terminal) S18 (Interlock stop button / 1-fasing zum Stopknopf)  
 P1 (Interlock for trip unit / Auslöseschutz) S19 (Auxiliary switch / Hilfskontakt) S20 (Ready to close signaling switch / Einschaltbereitschaftsschalter)  
 S21 (Interlocking switch S22 / Sperrschalter S22) S23 (Interlocking switch S24 / Sperrschalter S24) S25 (Interlocking switch S26 / Sperrschalter S26) S27 (Interlocking switch S28 / Sperrschalter S28) S29 (Interlocking switch S30 / Sperrschalter S30) S31 (Interlocking switch S32 / Sperrschalter S32) S33 (Interlocking switch S34 / Sperrschalter S34) S35 (Interlocking switch S36 / Sperrschalter S36) S37 (Interlocking switch S38 / Sperrschalter S38) S39 (Interlocking switch S40 / Sperrschalter S40) S41 (Interlocking switch S42 / Sperrschalter S42) S43 (Interlocking switch S44 / Sperrschalter S44) S45 (Interlocking switch S46 / Sperrschalter S46) S47 (Interlocking switch S48 / Sperrschalter S48) S49 (Interlocking switch S50 / Sperrschalter S50) S51 (Interlocking switch S52 / Sperrschalter S52) S53 (Interlocking switch S54 / Sperrschalter S54) S55 (Interlocking switch S56 / Sperrschalter S56) S57 (Interlocking switch S58 / Sperrschalter S58) S59 (Interlocking switch S60 / Sperrschalter S60) S61 (Interlocking switch S62 / Sperrschalter S62) S63 (Interlocking switch S64 / Sperrschalter S64) S65 (Interlocking switch S66 / Sperrschalter S66) S67 (Interlocking switch S68 / Sperrschalter S68) S69 (Interlocking switch S70 / Sperrschalter S70) S71 (Interlocking switch S72 / Sperrschalter S72) S73 (Interlocking switch S74 / Sperrschalter S74) S75 (Interlocking switch S76 / Sperrschalter S76) S77 (Interlocking switch S78 / Sperrschalter S78) S79 (Interlocking switch S80 / Sperrschalter S80) S81 (Interlocking switch S82 / Sperrschalter S82) S83 (Interlocking switch S84 / Sperrschalter S84) S85 (Interlocking switch S86 / Sperrschalter S86) S87 (Interlocking switch S88 / Sperrschalter S88) S89 (Interlocking switch S90 / Sperrschalter S90) S91 (Interlocking switch S92 / Sperrschalter S92) S93 (Interlocking switch S94 / Sperrschalter S94) S95 (Interlocking switch S96 / Sperrschalter S96) S97 (Interlocking switch S98 / Sperrschalter S98) S99 (Interlocking switch S100 / Sperrschalter S100)

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