

CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS S ICU=36KA @ 415 V 2-POLE, LINE PROTECTION TM210, FTFM, IN=125A OVERLOAD PROTECTION IR=125A FIXED SHORT CIRCUIT PROTECTION II=10 X IN CABLE CONNECTION



| Model  |                             |
|--|-----------------------------|
| Product brand name                             | SENTRON                     |
| Product designation                            | Molded case circuit breaker |
| Design of the product                          | Line protection             |
| Design of the overcurrent release              | TM210                       |
| Protective function of the overcurrent release | LI                          |
| Number of poles                                | 2                           |

| General technical data   |        |
|--|--------|
| Tension assignée d'isolement $U_i$   | 500 V  |
| Max. rated operational voltage $U_e$ with AC 50/60Hz   | 415 V  |
| Max. rated operational voltage $U_e$ with DC   | 250 V  |
| Active power loss / for rated value of the current / at AC / in hot operating state / per device | 15.5 W |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole   | 7.75 W |
| Mechanical service life (switching cycles) / typical   | 15 000 |
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz                        | 8 000  |
| Neutral conductors / upgradeable/retrofitable  | No     |

|                                 |         |
|---------------------------------|---------|
| Ground fault monitoring version | Without |
| Product function                |         |
| • communication function        | No      |
| • other measurement function    | No      |
| Net weight                      | 0.6 kg  |

### Electricity

|   |       |
|---|-------|
| Max. rated operational voltage of the size of the circuit-breaker | 160 A |
| Courant permanent assigné lu                                      | 125 A |
| Operating current   |       |
| • at 40 °C  | 125 A |
| • at 45 °C  | 125 A |
| • at 50 °C  | 125 A |
| • at 55 °C  | 122 A |
| • at 60 °C  | 120 A |
| • at 65 °C  | 117 A |
| • at 70 °C  | 114 A |

### Switching capacity according to IEC 60947

|   |        |
|---|--------|
| Switching capacity class of the circuit breaker           | S      |
| Maximum short-circuit current breaking capacity (Icu)     |        |
| • at 240 V  | 55 kA  |
| • at 415 V  | 36 kA  |
| Operational short-circuit current breaking capacity (Ics) |        |
| • at 240 V  | 55 kA  |
| • at 415 V  | 36 kA  |
| Short-circuit current making capacity (Icm)               |        |
| • at 240 V  | 121 kA |
| • at 415 V  | 76 kA  |

### Adjustable parameters

|   |         |
|---|---------|
| Adjustable response value current / I <sub>g</sub> min.                 | 125 A   |
| Adjustable response value current / I <sub>g</sub> min.                 | 125 A   |
| Short-term delayed / tripping switchable / I <sub>2t</sub> =ON/OFF      | No      |
| Adjustable response value current / I <sub>i</sub> min.                 | 1 250 A |
| Adjustable response value current / I <sub>i</sub> max.                 | 1 250 A |
| Ground fault protection / tripping switchable / I <sub>2t</sub> =ON/OFF | No      |

### Mechanical Design

|             |        |
|-------------|--------|
| Height [in] | 5.1 in |
| Height      | 130 mm |

|            |         |
|------------|---------|
| Width [in] | 2 in    |
| Width      | 50.8 mm |
| Depth [in] | 2.8 in  |
| Depth      | 70 mm   |

### Connections

|   |                                 |
|---|---------------------------------|
| Arrangement of electrical connectors / for main current circuit                 | Front terminal                  |
| Type of electrical connection / for main current circuit                        | box terminal                    |
| Type of connectable conductor cross-section, round conductor terminal, stranded | 1 x (1.5 - 70 mm <sup>2</sup> ) |

### Auxiliary circuit

|  |   |
|--|---|
| Number of CO contacts / for auxiliary contacts | 0 |
|--|---|

### Accessories

|  |    |
|--|----|
| Product extension / optional / motor drive | No |
|--|----|

### Environmental conditions

|  |  |
|--|--|
| Protection class IP / on the front   | IP40   |
| Ambient temperature  |  |
| <ul style="list-style-type: none"> <li>during operation / minimum</li> <li>during operation / maximum</li> <li>during storage / minimum</li> <li>during storage / maximum</li> </ul> | <ul style="list-style-type: none"> <li>-25 °C</li> <li>70 °C</li> <li>-40 °C</li> <li>80 °C</li> </ul> |

### Certificates

|  |   |
|--|---|
| Equipment marking / acc. to DIN EN 81346-2 | Q |
|--|---|

| General Product Approval   |  | EMC  | Declaration of Conformity   |
|--|--|--|---|
| <br>CCC | <br>VDE | <br>EAC   | <br>EG-Konf. |
|  | <a href="#">KC</a>   | <br>RCM |   |

| Test Certificates   | other                         |
|---|-------------------------------|
| <a href="#">Miscellaneous</a><br><a href="#">Type Test Certificates/Test Report</a><br><a href="#">Special Test Certificate</a> | <a href="#">Miscellaneous</a> |

### Further information

**Information- and Downloadcenter (Catalogs, Brochures,...)**  
<http://www.siemens.com/lowvoltage/catalogs>

**Industry Mall (Online ordering system)**  
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA1112-4ED26-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA1112-4ED26-0AA0>

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

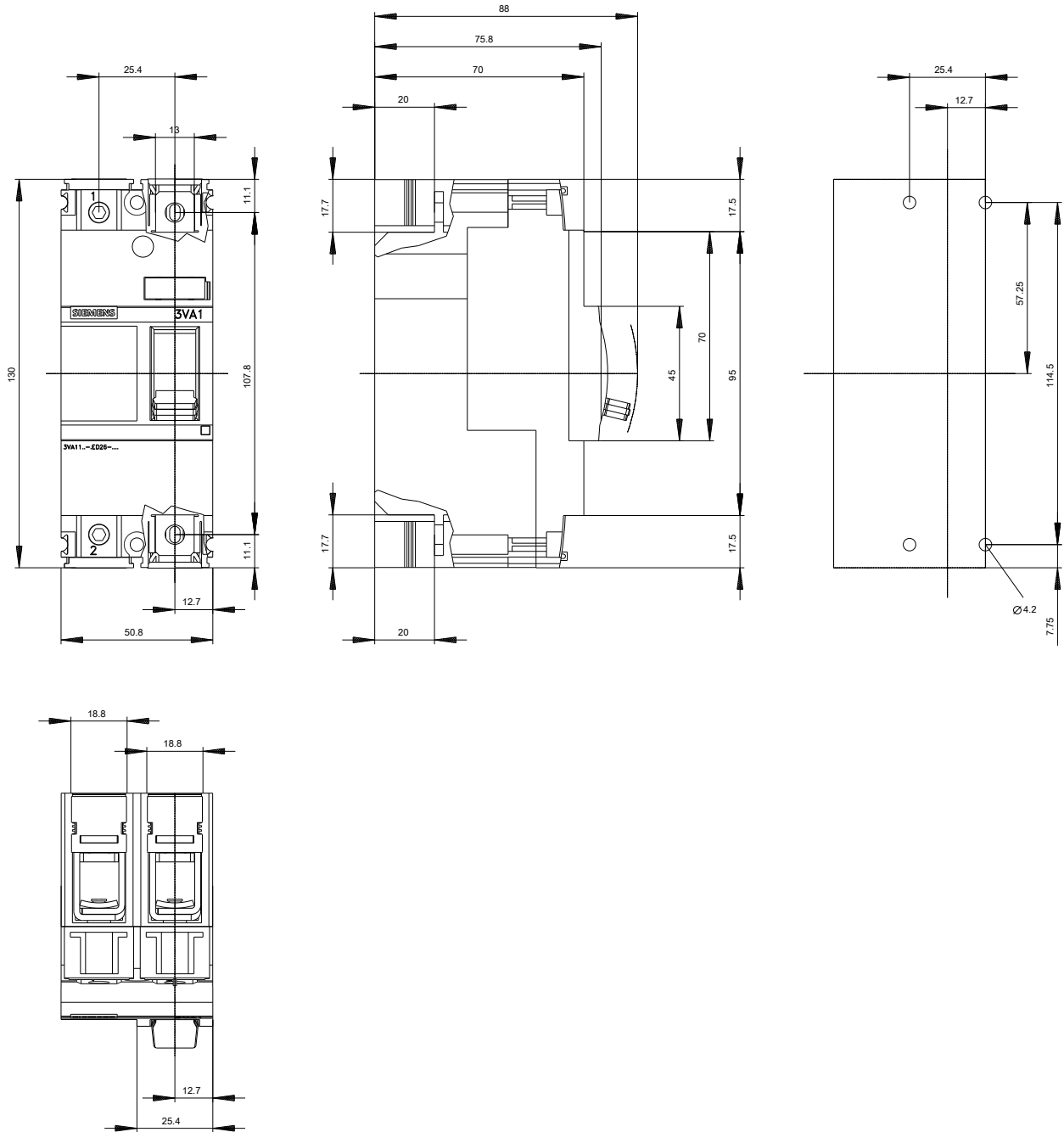
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA1112-4ED26-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1112-4ED26-0AA0)

**CAX-Online-Generator**

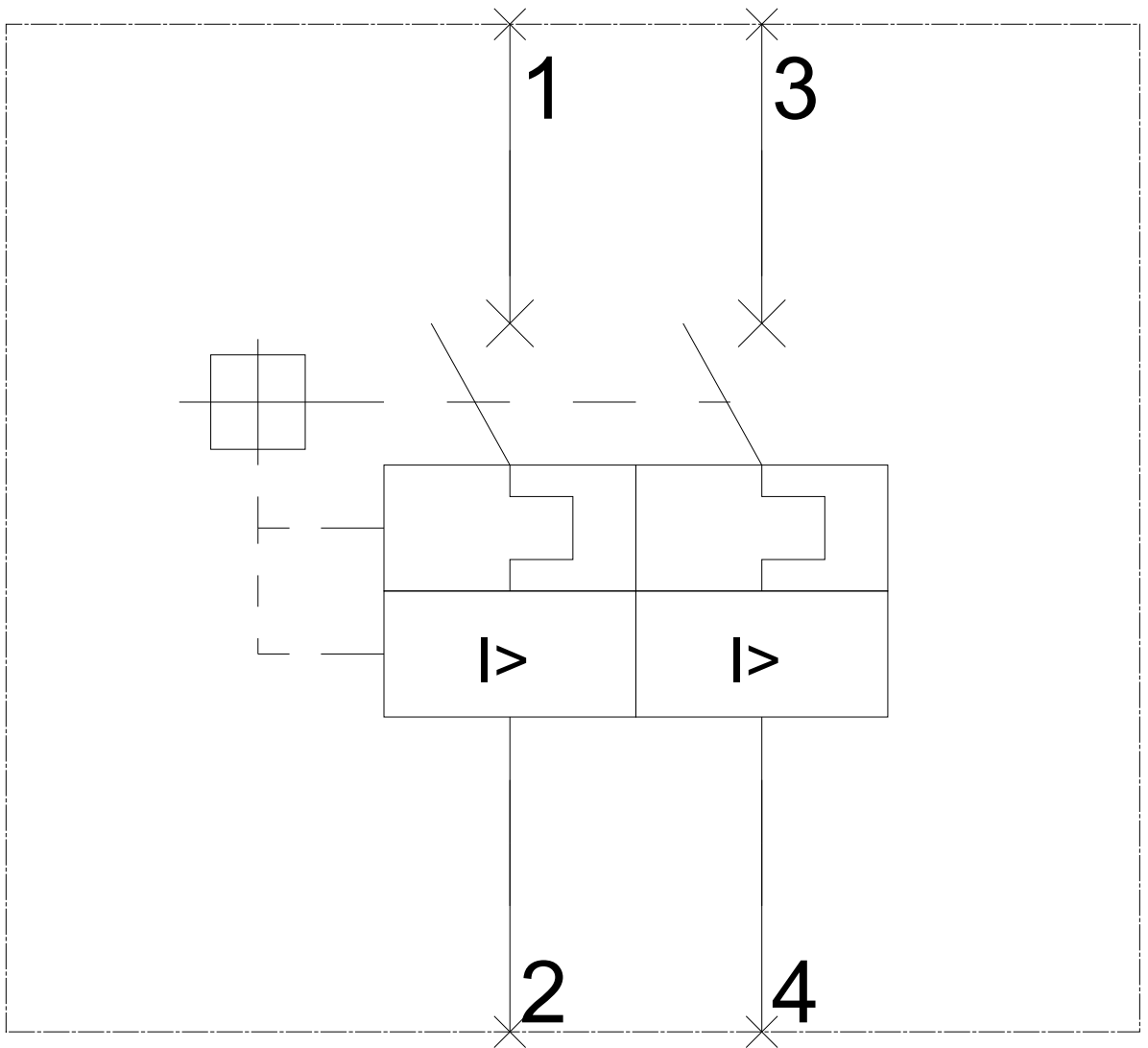
<http://www.siemens.com/cax>

**Tender specifications**

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



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