



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS S ICU=36KA @ 415 V 2-POLE, LINE PROTECTION TM210, FTFM, IN=40A OVERLOAD PROTECTION IR=40A FIXED SHORT CIRCUIT PROTECTION II=10 X IN CABLE CONNECTION

| Model                                                                                            |                             |
|--------------------------------------------------------------------------------------------------|-----------------------------|
| Product brand name                                                                               | SETRON                      |
| 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 Ui                                                                  | 500 V                       |
| Max. rated operational voltage Ue with AC 50/60Hz                                                | 415 V                       |
| Max. rated operational voltage Ue with DC                                                        | 250 V                       |
| Active power loss / for rated value of the current / at AC / in hot operating state / per device | 7.2 W                       |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole   | 3.6 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/retrofittable                                                   | 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                                      | 40 A  |
| Operating current                                                 |       |
| • at 40 °C                                                        | 40 A  |
| • at 45 °C                                                        | 40 A  |
| • at 50 °C                                                        | 40 A  |
| • at 55 °C                                                        | 39 A  |
| • at 60 °C                                                        | 39 A  |
| • at 65 °C                                                        | 38 A  |
| • at 70 °C                                                        | 37 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 / Ig min.                | 40 A  |
| Adjustable response value current / Ig min.                | 40 A  |
| Short-term delayed / tripping switchable / I2t=ON/OFF      | No    |
| Adjustable response value current / li min.                | 400 A |
| Adjustable response value current / li max.                | 400 A |
| Ground fault protection / tripping switchable / I2t=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 mm²) |

#### 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                |        |
| • during operation / minimum       | -25 °C |
| • during operation / maximum       | 70 °C  |
| • during storage / minimum         | -40 °C |
| • during storage / maximum         | 80 °C  |

#### Certificates

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

| General Product Approval                                                                   | EMC                                                                                          | Declaration of Conformity                                                                         |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| <br>CCC | <br>EAC   | <br>EG-Konf. |
| <br>VDE | <br>RCM |                                                                                                   |

[KC](#)

| Test Certificates                                  | other                         |
|----------------------------------------------------|-------------------------------|
| <a href="#">Type Test Certificates/Test Report</a> | <a href="#">Miscellaneous</a> |
| <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=3VA1140-4ED26-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA1140-4ED26-0AA0>

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

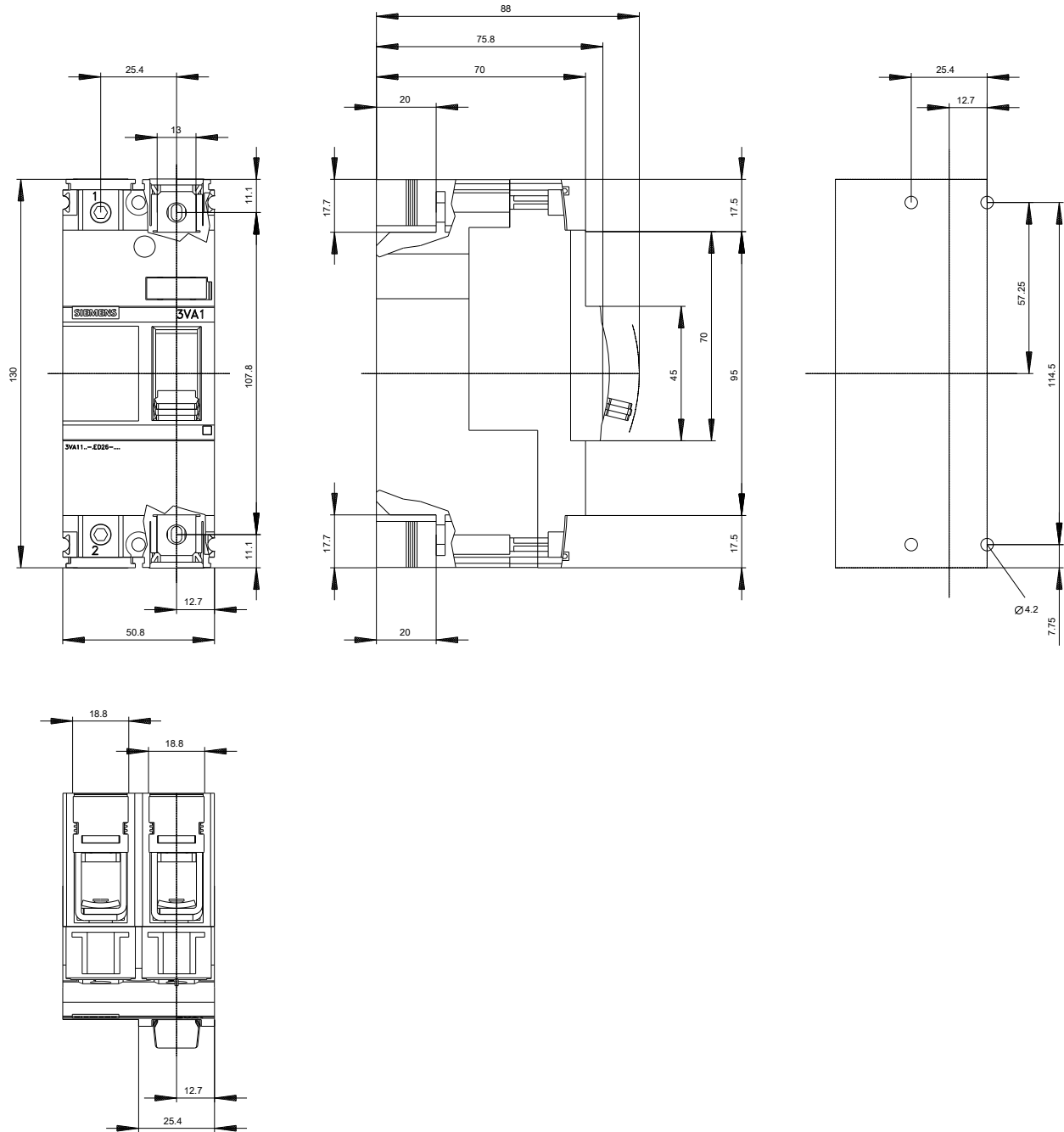
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA1140-4ED26-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1140-4ED26-0AA0)

**CAX-Online-Generator**

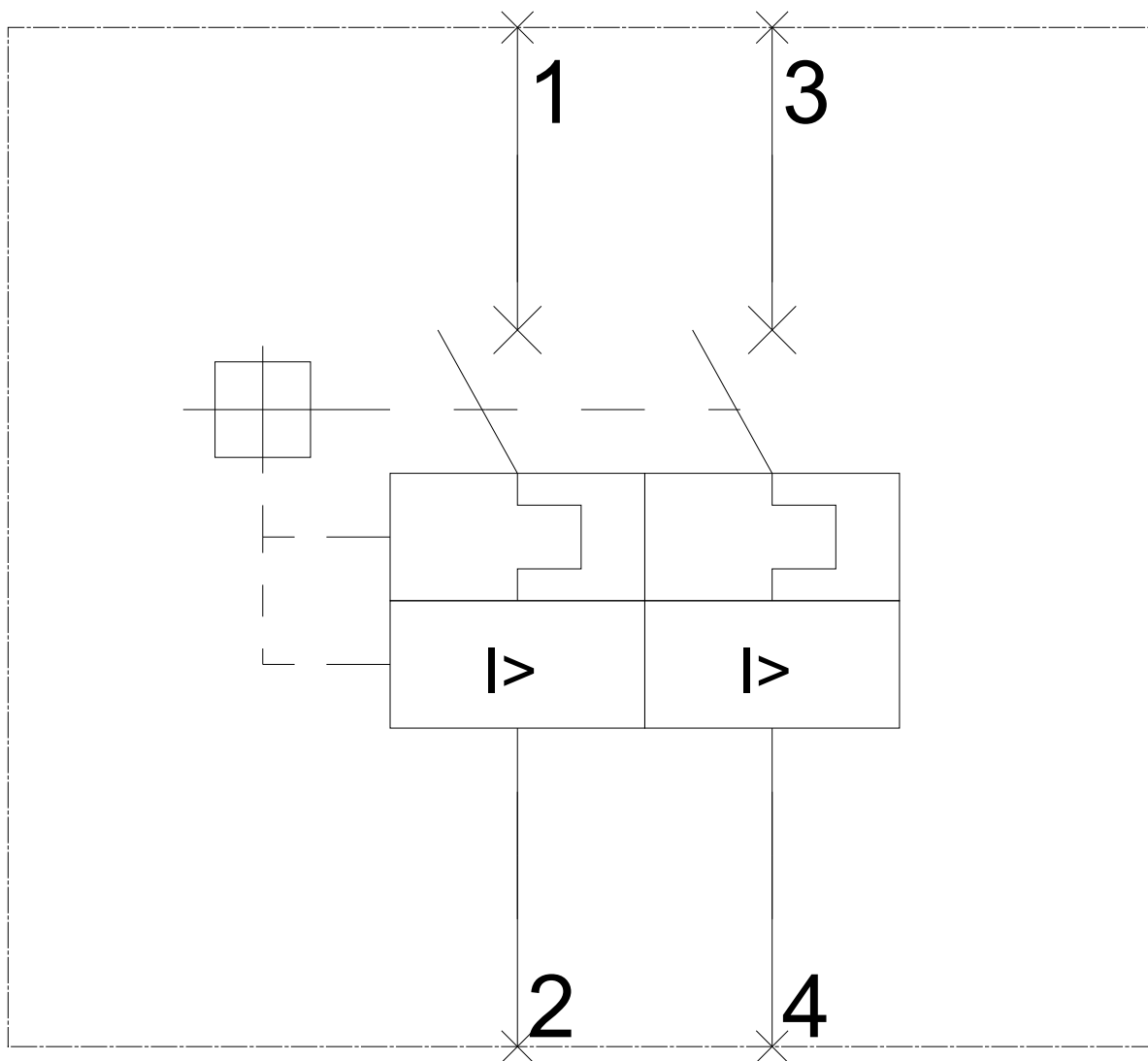
<http://www.siemens.com/cax>

**Tender specifications**

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



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