SIEMENS

## Data sheet 3VA1140-4ED12-0AA0

CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS S ICU=36KA @ 240 V 1-POLE, LINE PROTECTION TM210, FTFM, IN=40A OVERLOAD PROTECTION IR=40A FIXED SHORT CIRCUIT PROTECTION II=10 X IN BUSBAR 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 | 1 |

| 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 | 125 V |
| Active power loss / for rated value of the current / at AC / in hot operating state / per device | 3.6 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 |


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| | |
|---|---|
| Ground fault monitoring version | Without |
| Product function | |
| • communication function | No |
| • other measurement function | No |
| Net weight | 0.36 kg |

| Electricity | |
|---|---|
| Max. rated operational voltage of the size of the circuit-breaker | 160 A |
| Courant permanent assigné Iu | 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 | 36 kA |
| • at 415 V | 6 kA |
| Operational short-circuit current breaking capacity (Ics) | |
| • at 240 V | 36 kA |
| • at 415 V | 6 kA |
| Short-circuit current making capacity (Icm) | |
| • at 240 V | 76 kA |
| • at 415 V | 9 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 / Ii min. | 400 A |
| Adjustable response value current / Ii max. | 400 A |
| Ground fault protection / tripping switchable / I2t=ON/OFF | No |

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


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| | |
|---|---|
| Width [in] | 1 in |
| Width | 25.4 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 | lug terminal |
| Type of connectable conductor cross-section, connection screw, width x thickness , min. | 12 x 0 |
| Type of connectable conductor cross-section, connection screw, width x thickness , max. | 17 x 6.5 |

## 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 | Test Certificates |
|---|---|---|---|---|---|
| CCC | VDE | EAC | RCM | EG-Konf. | Type Test Certificates/Test Report |

| Test Certificates | | other |
|---|---|---|
| Miscellaneous | Special Test Certificate | Miscellaneous |

## Further information

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


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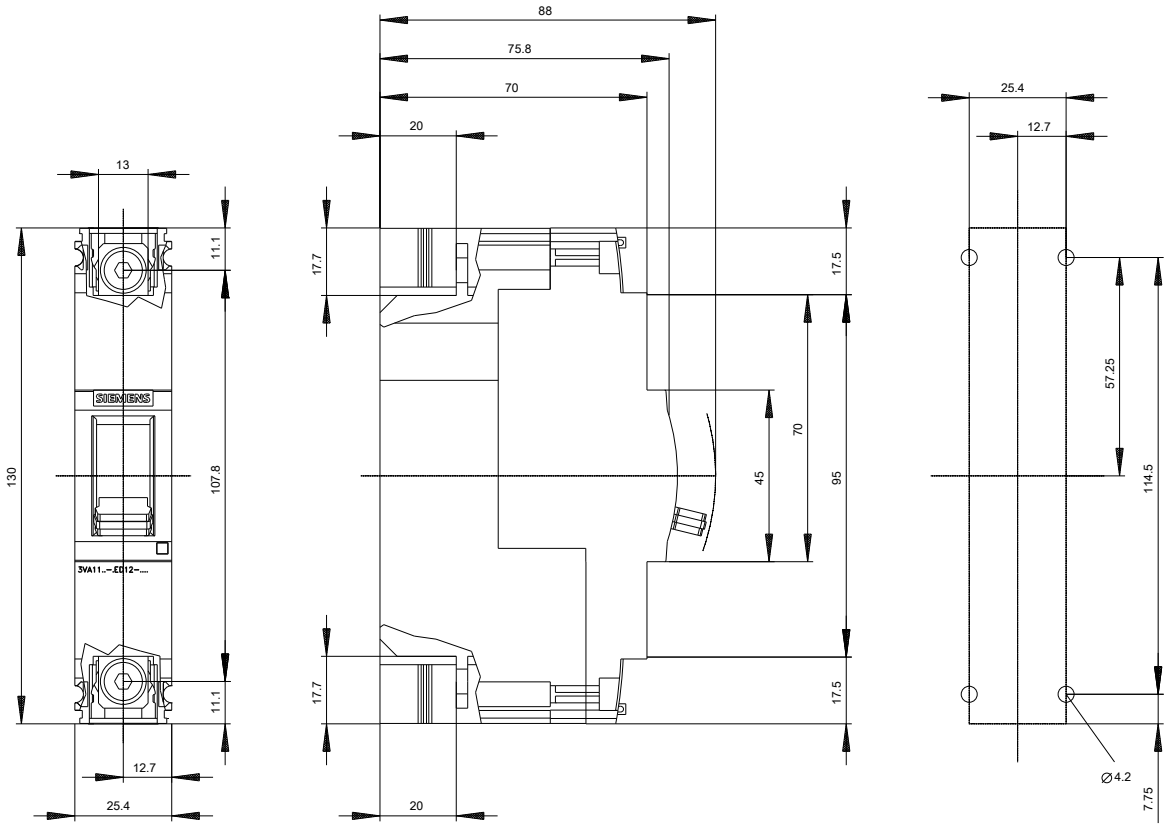
**Industry Mall (Online ordering system)**
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA1140-4ED12-0AA0

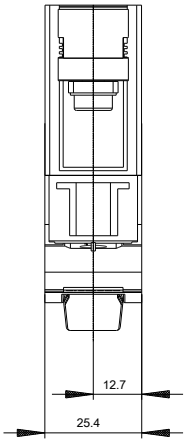
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3VA1140-4ED12-0AA0

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1140-4ED12-0AA0

**CAx-Online-Generator**
http://www.siemens.com/cax

**Tender specifications**
http://www.siemens.com/specifications





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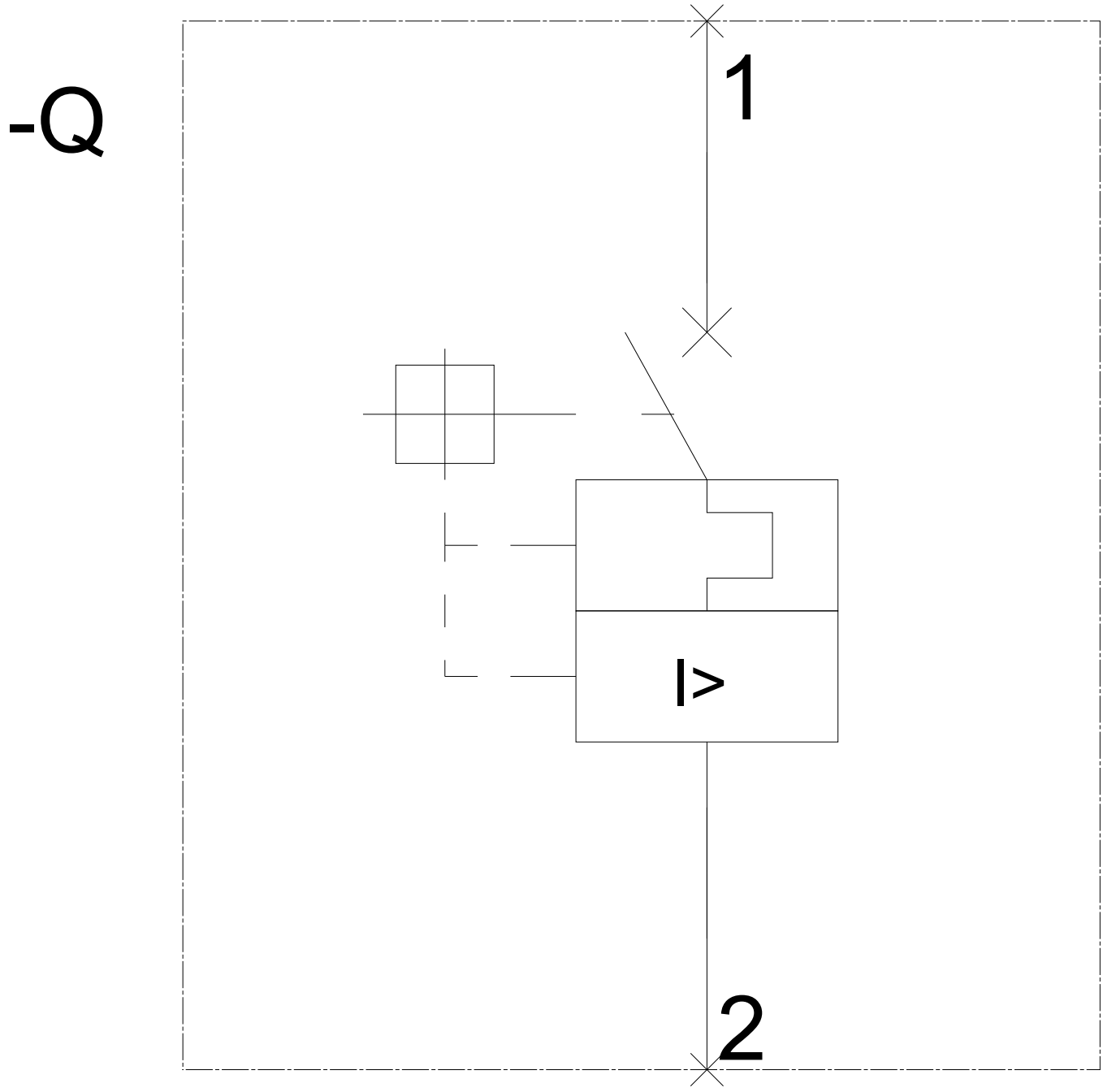



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