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## Data sheet 3VA2125-8KQ36-0AA0

CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS L ICU=150KA @ 415 V 3POLE, LINE PROTECTION ETU860, LSIG, IN=25A OVERLOAD PROTECTION IR=10A ...25A SHORT CIRCUIT PROTECTION ISD=0,6..10X IN, II=1,5..12X IN NEUTRAL PROTECTION OPTIONAL WITH EXT. CT,UPTO 160% GROUNDFAULT, SWITCHABLE IG=0,2... 1 X IN, TG=0,050,8S CABLE CONNECTION

| Model | |
|---|---|
| product brandname | SENTRON |
| Product designation | Molded case circuit breaker |
| Design of the product | Line protection |
| Type of load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) | Yes |
| Design of the overcurrent release | ETU860 |
| Protective function of the overcurrent release | LSIG |
| Number of poles | 3 |

| General technical data | |
|---|---|
| Tension assignée d'isolement Ui | 800 V |
| Max. rated operational voltage Ue with AC 50/60Hz | 690 V |
| Active power loss / for rated value of the current / at AC / in hot operating state / per device | 0.5 W |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 0.17 W |
| Mechanical service life (switching cycles) / typical | 20 000 |


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| | |
|---|---|
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz | 12 000 |
| Neutral conductors / upgradeable/retrofittable | Yes |
| Ground fault monitoring version | Summation current formation L-conductor |
| Product function | |
| • communication function | Yes |
| • other measurement function | Yes |
| Net weight | 2.45 kg |

| Electricity | |
|---|---|
| Marking / according to UL 489 / 100%-rated breaker | No |
| Max. rated operational voltage of the size of the circuit-breaker | 160 A |
| Courant permanent assigné Iu | 25 A |
| Operating current | |
| • at 40 °C | 25 A |
| • at 45 °C | 25 A |
| • at 50 °C | 25 A |
| • at 55 °C | 25 A |
| • at 60 °C | 25 A |
| • at 65 °C | 25 A |
| • at 70 °C | 25 A |

| Switching capacity according to IEC 60947 | |
|---|---|
| Switching capacity class of the circuit breaker | L |
| Maximum short-circuit current breaking capacity (Icu) | |
| • at 240 V | 200 kA |
| • at 415 V | 150 kA |
| • at 440 V | 150 kA |
| • at 500 V | 100 kA |
| • at 690 V | 24 kA |
| Operational short-circuit current breaking capacity (Ics) | |
| • at 240 V | 200 kA |
| • at 415 V | 150 kA |
| • at 440 V | 150 kA |
| • at 500 V | 100 kA |
| • at 690 V | 18 kA |
| Short-circuit current making capacity (Icm) | |
| • at 240 V | 440 kA |
| • at 415 V | 330 kA |
| • at 440 V | 330 kA |
| • at 500 V | 220 kA |
| • at 690 V | 50 kA |


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| Adjustable parameters | |
|---|---|
| Adjustable response value current / Ig min. | 10 A |
| Adjustable response value current / Ig min. | 25 A |
| Adjustable response value current / Ig min. | 0.5 |
| Adjustable response value current / Ig min. | 25 |
| Adjustable response value current / Ig min. | 15 A |
| Adjustable response value current / Ig min. | 250 A |
| Short-term delayed / tripping switchable / I2t=ON/OFF | Yes |
| Adjustable response value current / Ig min. | 0.05 s |
| Adjustable response value current / Ig min. | 0.5 s |
| Adjustable response value current / Ig min. | 0.05 s |
| Adjustable response value current / Ig min. | 0.5 s |
| Adjustable response value current / Ii min. | 38 A |
| Adjustable response value current / Ii max. | 300 A |
| Design of the N-conductor protection | Without |
| Ground fault protection can be switched ON/OFF | Yes |
| Ground fault protection / tripping switchable / I2t=ON/OFF | Yes |
| Adjustable response value current / Ig min. | 15 A |
| Adjustable response value current / Ig max. | 25 A |
| Adjustable response value current / tg min. | 0.05 s |
| Adjustable response value current / Ig min. | 0.8 s |
| Adjustable response value current / for G-tripping / with I2t characteristic / min. | 0.6 A |
| Adjustable response value current / for G-tripping / with I2t characteristic / max. | 1 A |

| Mechanical Design | |
|---|---|
| Height [in] | 7.1 in |
| Height | 181 mm |
| Width [in] | 4.1 in |
| Width | 105 mm |
| Depth [in] | 4.2 in |
| Depth | 107 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 (6-120 mm²) |

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


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## Accessories

| | |
|---|---|
| Product extension / optional / motor drive | Yes |

## 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 |
| Certificate of suitability / as approval for NAVAL (no combat vessels) / Supplement SB | No |

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

| Test Certificates | | Shipping Approval | | | |
|---|---|---|---|---|---|
| Typprüfbescheinigung/Werkszeugnis | sonstig | ABS | BUREAU VERITAS | GL | LRS |

| Shipping Approval | other |
|---|---|
| RMRS | sonstig |

## Further information

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

**Industry Mall (Online ordering system)**
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA2125-8KQ36-0AA0

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
http://support.automation.siemens.com/WW/view/en/3VA2125-8KQ36-0AA0/all

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2125-8KQ36-0AA0

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


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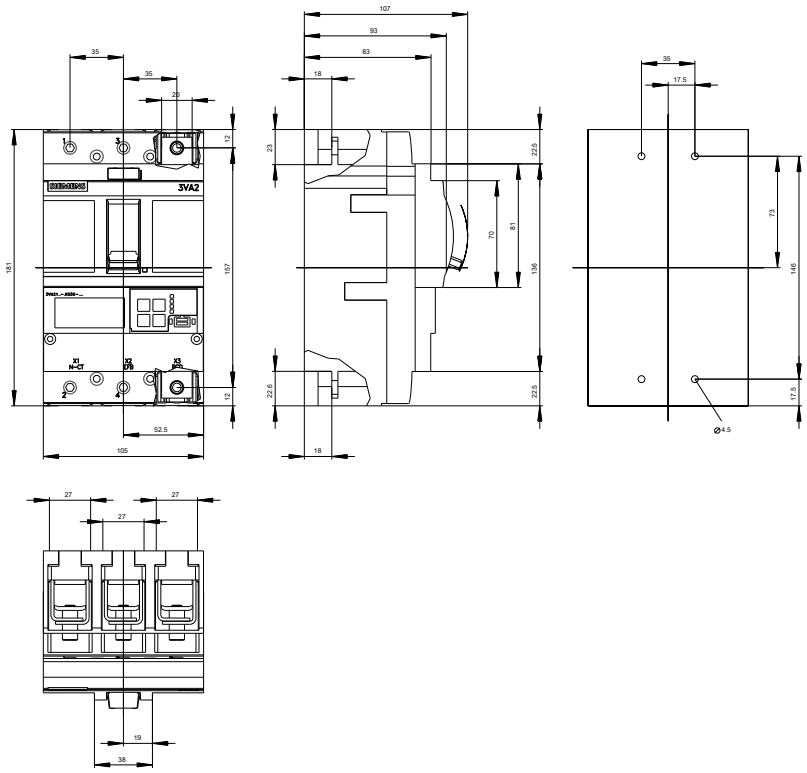
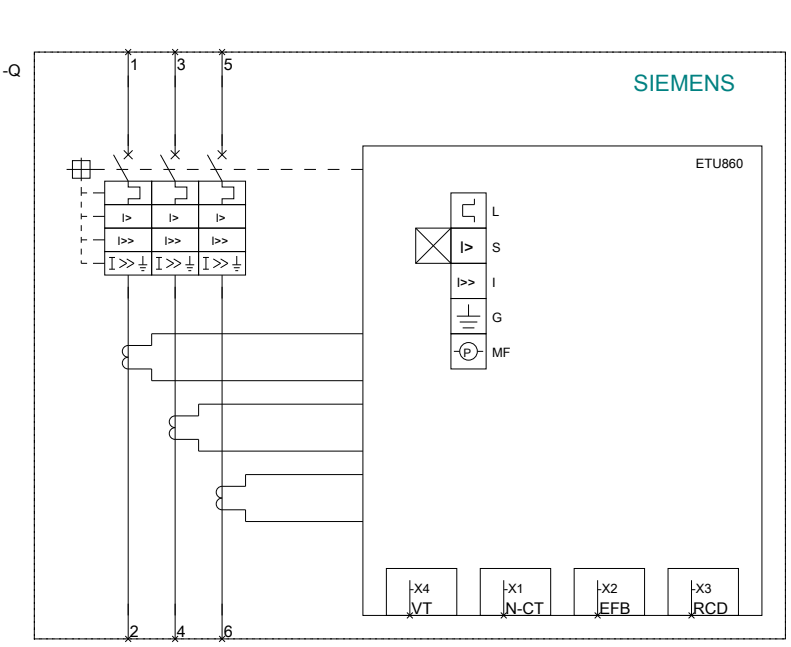
**Tender specifications**
http://www.siemens.com/specifications





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