SIEMENS

## Data sheet 3VA6115-5JP31-2AA0



circuit breaker 3VA6 UL frame 150 breaking capacity class M 35kA @ 480V 3-pole, line protection ETU550, LSI, In=150A overload protection Ir=60A...150A short-circuit protection Isd=0.6..10x In, Ii=1.5..10x In N conductor protection optionally with external current transformer, up to 160% without connection

| Model | |
|---|---|
| Product brand name | SENTRON |
| Product designation | Molded-case circuit breaker |
| Product designation / according to UL file | MDAE |
| Product version | System protection |
| Design of the load switch / acc. to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) | Yes |
| Design of the overcurrent release | ETU550 |
| protection function of the overcurrent release | LSI |
| Number of poles | 3 |

| General technical data | |
|---|---|
| Rated insulation voltage Ui | 600 V |
| Max. rated operational voltage Ue with AC 50/60Hz | 600 V |
| Power loss [W] / maximum | 29 W |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 9.67 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 | 9 000 |
| Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz | 5 000 |
| Electrical endurance (switching cycles) / at 480 V / at 50/60 Hz | 9 000 |
| Electrical endurance (switching cycles) / at 600 V / at 50/60 Hz | 9 000 |
| Neutral conductors / upgradeable/retrofittable | Yes |
| Ground fault monitoring version | Without |
| Product function | |
| • communication function | Yes |
| • other measurement function | No |

| Current | |
|---|---|
| Marking / acc. to UL 489 / 100%-rated breaker | Yes |
| Max. rated operational current of the frame size | 150 A |
| Rated continuous current Iu | 150 A |
| Operating current | |
| • at 40 °C | 150 A |
| • at 45 °C | 150 A |
| • at 50 °C | 150 A |
| • at 55 °C | 143 A |
| • at 60 °C | 135 A |
| • at 65 °C | 128 A |
| • at 70 °C | 120 A |

| Switching capacity according to IEC 60947 | |
|---|---|
| Switching capacity class of the circuit breaker | M |
| Maximum short-circuit current breaking capacity (Icu) | |
| • at 240 V | 85 kA |
| • at 415 V | 55 kA |
| • at 690 V | 2.5 kA |
| Operational short-circuit current breaking capacity (Ics) | |
| • at 240 V | 85 kA |
| • at 415 V | 55 kA |
| • at 690 V | 2.5 kA |
| Short-circuit current making capacity (Icm) | |
| • at 240 V | 187 kA |
| • at 415 V | 121 kA |
| • at 690 V | 3.8 kA |

| Switching capacity according to UL 489 | |
|---|---|
| Breaking capacity current | |


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| | |
|---|---|
| • at 240 V | 100 kA |
| • at 480 V | 35 kA |
| • at 600 V | 18 kA |

| Adjustable parameters | |
|---|---|
| Adjustable response value current / Ig min. | 60 A |
| Adjustable response value current / Ig min. | 150 A |
| Adjustable response value time / tr min. | 0.5 |
| Adjustable response value time / tr max. | 20 |
| Adjustable response value current / Ig min. | 90 A |
| Adjustable response value current / Ig min. | 1 500 A |
| Adjustable response value time / tsd min. | 0.05 s |
| Adjustable response value time / tsd max. | 0.5 s |
| Adjustable response value time / tsd min. | 0.05 s |
| Adjustable response value time / tsd max. | 0.5 s |
| Adjustable response value current / Ii min. | 225 A |
| Adjustable response value current / Ii max. | 1 500 A |
| Ground fault protection / tripping switchable / I2t=ON/OFF | No |

| Mechanical Design | |
|---|---|
| Height [in] | 7.8 in |
| Height | 198 mm |
| Width [in] | 4.1 in |
| Width | 105 mm |
| Depth [in] | 3.4 in |
| Depth | 86 mm |

| Connections | |
|---|---|
| Arrangement of electrical connectors / for main current circuit | Without connection |
| Type of electrical connection / for main current circuit | Without |

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

| 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 |


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## Certificates

| | |
|---|---|
| Reference code / acc. to DIN EN 81346-2 | Q |
| Certificate of suitability / as approval for NAVAL (no combat vessels) / Supplement SB | Yes |

| General Product Approval | | | | | EMC |
|---|---|---|---|---|---|
| CCC | CSA | UL | UL | EAC | RCM |

| Declaration of Conformity | Shipping Approval | | other |
|---|---|---|---|
| EG-Konf. | ABS | LRS | Miscellaneous |

## 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=3VA6115-5JP31-2AA0

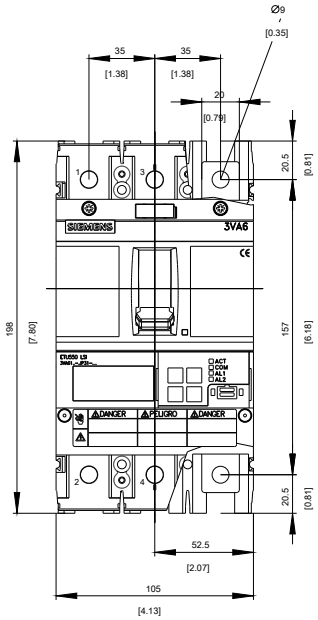
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3VA6115-5JP31-2AA0

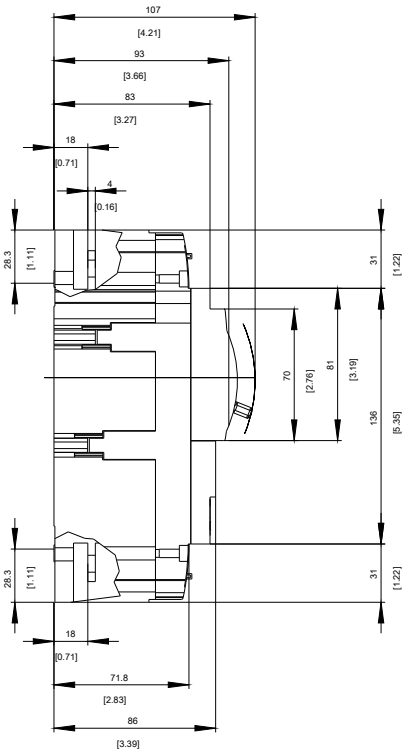
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6115-5JP31-2AA0

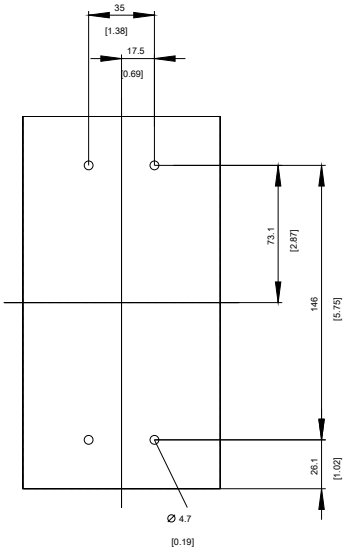
**CAx-Online-Generator**
http://www.siemens.com/cax

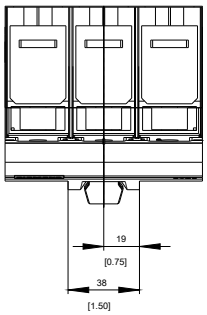
**Tender specifications**
http://www.siemens.com/specifications


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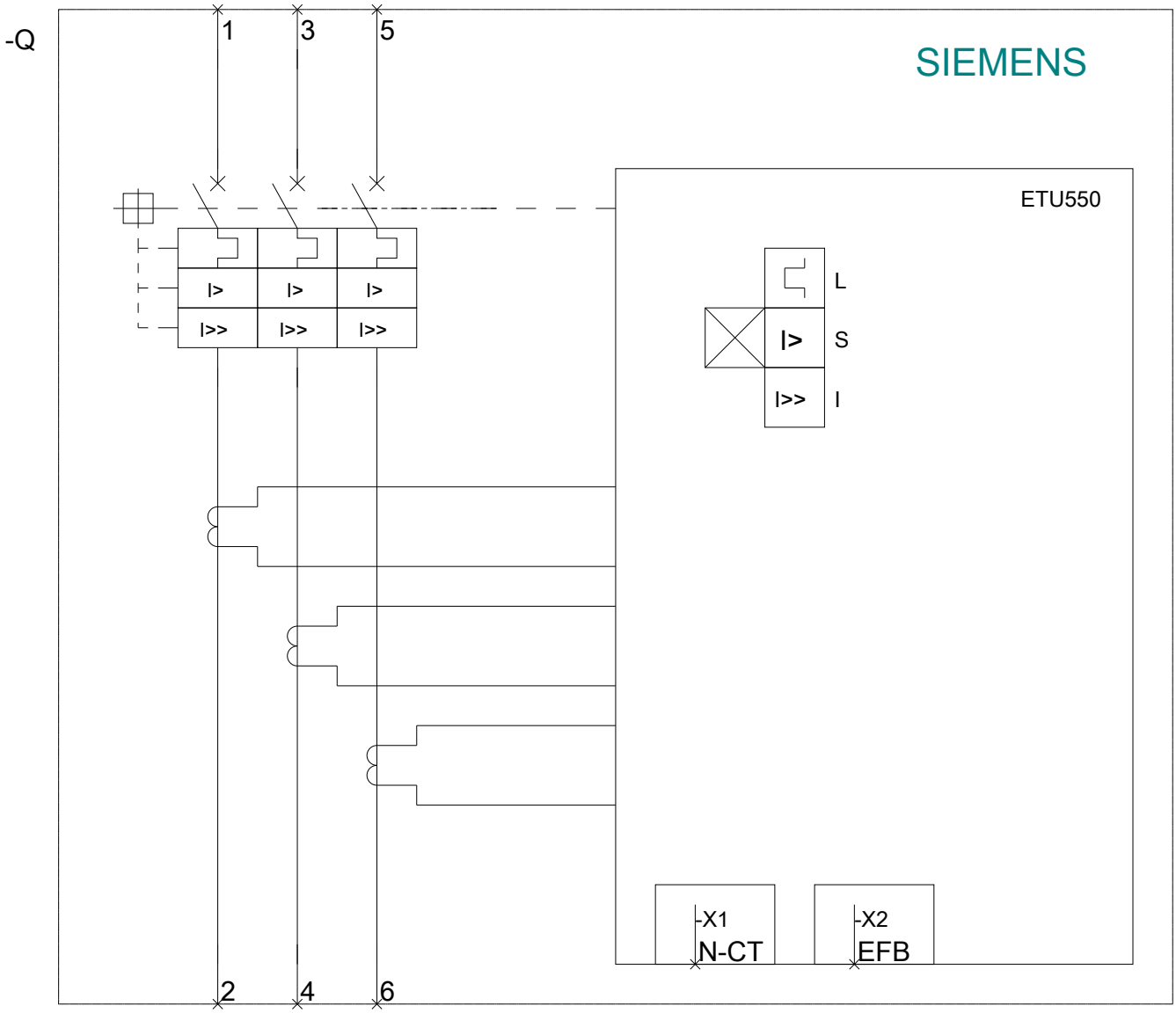



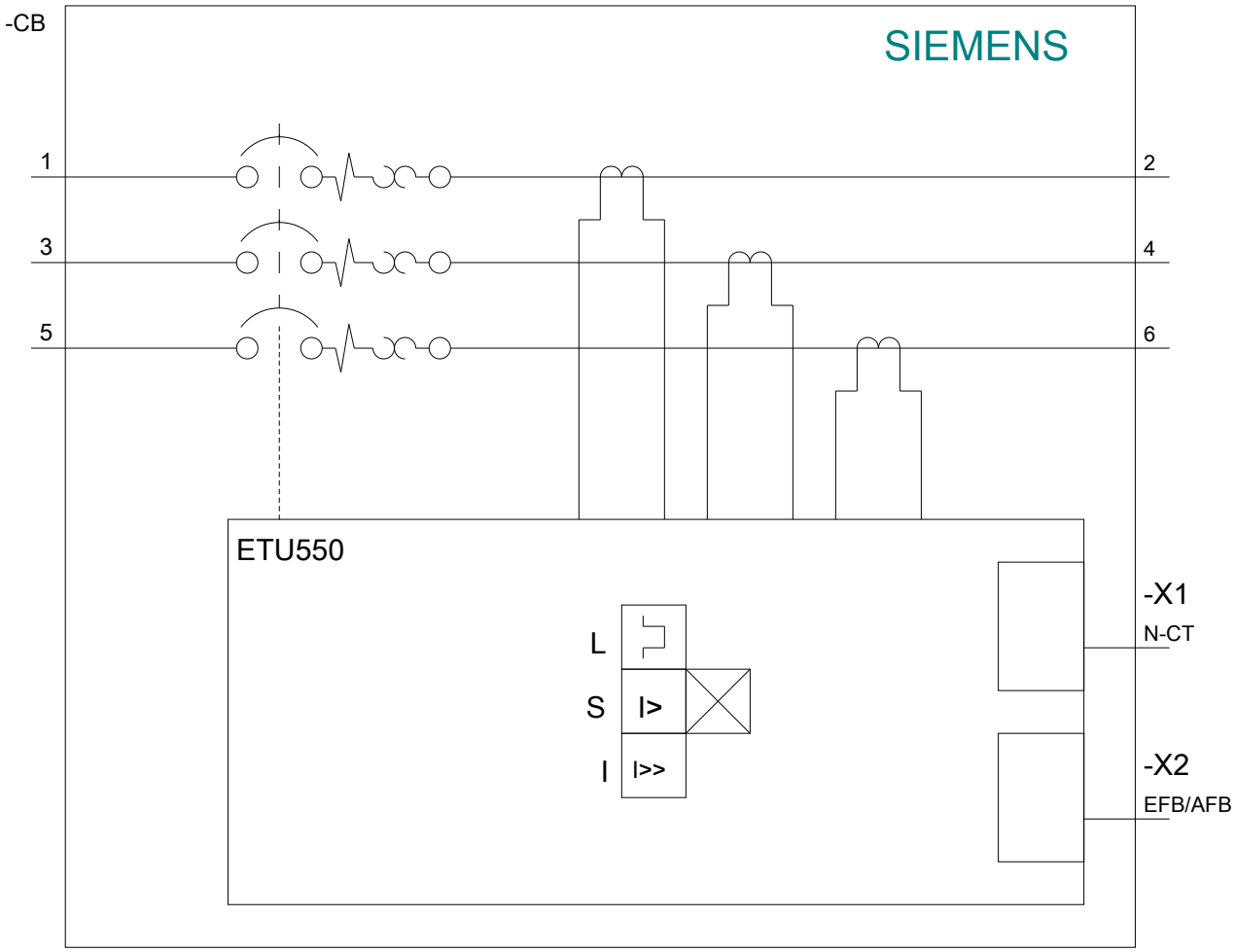


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**last modified:** 08/05/2020


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