



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 3-POLE, LINE PROTECTION ETU550, LSI, IN=63A OVERLOAD PROTECTION IR=25,2A ...63A SHORT CIRCUIT PROTECTION ISD=0,6..10X IN, II=1,5..12X IN NEUTRAL PROTECTION OPTIONAL WITH EXT. CT BUSBAR CONNECTION SHUNT TRIP (STL) 220-250 V DC; 208-277 V AC 2 AUXILIARY SWITCH HQ

| Model | |
|--|-----------------------------|
| product brandname | SENTRON |
| Product designation | Molded case circuit breaker |
| Design of the product | Line protection |
| Design of the overcurrent release | ETU550 |
| Protective function of the overcurrent release | LSI |
| Number of poles | 3 |
| Design of the auxiliary release | Shunt trip (STL) |
| Design of the auxiliary switch | 2 auxiliary switches HQ |
| 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 | 4 W |
| Mechanical service life (switching cycles) / typical | 20 000 |
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz | 12 000 |
| Neutral conductors / upgradeable/retrofitable | Yes |
| Ground fault monitoring version | Without |

| | |
|------------------------------|---------|
| Product function | |
| • communication function | Yes |
| • Phase failure detection | No |
| • other measurement function | No |
| Net weight | 2.44 kg |

Electricity

| | |
|---|-----------|
| Max. rated operational voltage of the size of the circuit-breaker | 160 A |
| Courant permanent assigné Iu | 63 A |
| Operating current | |
| • at 40 °C | 63 A |
| • at 45 °C | 63 A |
| • at 50 °C | 63 A |
| • at 55 °C | 60.6375 A |
| • at 60 °C | 58.275 A |
| • at 65 °C | 55.9125 A |
| • at 70 °C | 53.55 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 440 V | 55 kA |
| • at 500 V | 36 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 440 V | 55 kA |
| • at 500 V | 36 kA |
| • at 690 V | 2.5 kA |
| Short-circuit current making capacity (Icm) | |
| • at 240 V | 187 kA |
| • at 415 V | 121 kA |
| • at 440 V | 121 kA |
| • at 500 V | 79 kA |
| • at 690 V | 4.25 kA |

Adjustable parameters

| | |
|---|------|
| Adjustable response value current / I _g min. | 25 A |
| Adjustable response value current / I _g min. | 63 A |

| | |
|--|--------|
| Adjustable response value current / I _g min. | 0.5 |
| Adjustable response value current / I _g min. | 25 |
| Adjustable response value current / I _g min. | 38 A |
| Adjustable response value current / I _g min. | 630 A |
| Short-term delayed / tripping switchable / I _{2t} =ON/OFF | Yes |
| Adjustable response value current / I _g min. | 0.05 s |
| Adjustable response value current / I _g min. | 0.5 s |
| Adjustable response value current / I _g min. | 0.05 s |
| Adjustable response value current / I _g min. | 0.5 s |
| Adjustable response value current / I _i min. | 95 A |
| Adjustable response value current / I _i max. | 756 A |

Mechanical Design

| | |
|--------|--------|
| Height | 181 mm |
| Width | 105 mm |
| Depth | 86 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. | 13 x 1 mm |
| Type of connectable conductor cross-section, connection screw, width x thickness , max. | 25 x 8.5 |

Auxiliary circuit

| | |
|---|-----|
| Product component | |
| <ul style="list-style-type: none"> • undervoltage release | No |
| <ul style="list-style-type: none"> • Voltage trigger | Yes |
| <ul style="list-style-type: none"> • undervoltage release with leading contact | No |
| <ul style="list-style-type: none"> • Trip indicator | No |
| Number of CO contacts / for auxiliary contacts | 2 |

Accessories

| | |
|---|------------------------------------|
| Product extension / optional / motor drive | Yes |
| Manufacturer's article number | |
| <ul style="list-style-type: none"> • of the supplied basic switch | 3VA2163-5JP32-0AA0 |
| <ul style="list-style-type: none"> • of the integrated auxiliary switch/alarm switch | 3VA9988-0AA12 |
| <ul style="list-style-type: none"> • of the integrated auxiliary trip | 3VA9688-0BL33 |

Environmental conditions

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

- during operation / maximum
- during storage / minimum
- during storage / maximum

70 °C

-40 °C

80 °C

Certificates

Equipment marking / acc. to DIN EN 81346-2

Q

General Product Approval

EMC

Declaration of
Conformity

CCC



VDE

[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/3VA2163-5JP32-0KC0>

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

<http://support.automation.siemens.com/WW/view/en/3VA2163-5JP32-0KC0/all>

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

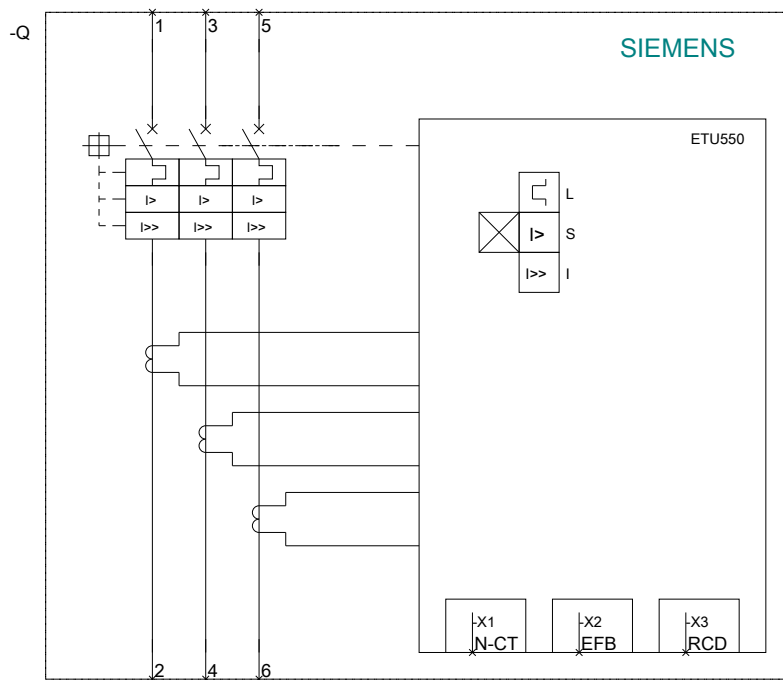
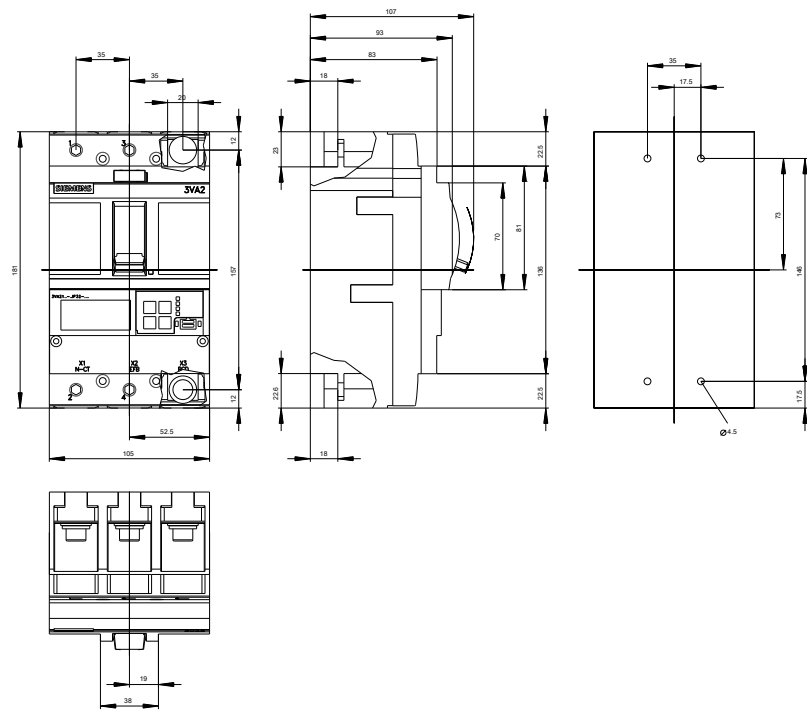
http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VA2163-5JP32-0KC0

CAX-Online-Generator

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

Tender specifications

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



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