



Circuit breaker 3VA2 IEC Frame 100 Switching capacity class M  
 $I_{cu}=55 \text{ kA @ } 415 \text{ V}$  3-pole, system protection ETU850, LSI,  $I_n=63 \text{ A}$   
 Overload protection  $I_r=25 \text{ A} \dots 63 \text{ A}$  short-circuit protection  
 $I_{sd}=0,6 \dots 10 \times I_n$ ,  $I_i=1,5 \dots 12 \times I_n$  N-conductor protection optionally with  
 external current transformer Lug terminal 1 auxiliary switch HQ 1  
 tripped signaling contact HQ

| Model                                                                                            |                                             |
|--------------------------------------------------------------------------------------------------|---------------------------------------------|
| Product brand name                                                                               | SETRON                                      |
| Product designation                                                                              | Molded case circuit breaker                 |
| Design of the product                                                                            | Line protection                             |
| Design of the overcurrent release                                                                | ETU850                                      |
| Protective function of the overcurrent release                                                   | LSI                                         |
| Number of poles                                                                                  | 3                                           |
| Design of the auxiliary release                                                                  | Without auxiliary release                   |
| Design of the auxiliary switch                                                                   | 1 auxiliary switch + 1 trip alarm switch HQ |
| General technical data                                                                           |                                             |
| Tension assignée d'isolement $U_i$                                                               | 800 V                                       |
| Max. rated operational voltage $U_e$ with AC 50/60Hz                                             | 690 V                                       |
| Active power loss / for rated value of the current / at AC / in hot operating state / per device | 5.4 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/retrofittable                                                   | Yes                                         |
| Ground fault monitoring version                                                                  | Without                                     |

|                              |         |
|------------------------------|---------|
| Product function             |         |
| • communication function     | Yes     |
| • Phase failure detection    | No      |
| • other measurement function | Yes     |
| Net weight                   | 2.36 kg |

#### Electricity

|                                                                   |           |
|-------------------------------------------------------------------|-----------|
| Max. rated operational voltage of the size of the circuit-breaker | 100 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 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 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                                                | 3.4 kA |

#### Adjustable parameters

|                                                         |      |
|---------------------------------------------------------|------|
| Adjustable response value current / I <sub>g</sub> min. | 25 A |
| Adjustable response value current / I <sub>g</sub> min. | 63 A |

|                                                                    |        |
|--------------------------------------------------------------------|--------|
| Adjustable response value current / I <sub>g</sub> min.            | 0.5    |
| Adjustable response value current / I <sub>g</sub> min.            | 25     |
| Adjustable response value current / I <sub>g</sub> min.            | 38 A   |
| Adjustable response value current / I <sub>g</sub> min.            | 630 A  |
| Short-term delayed / tripping switchable / I <sub>2t</sub> =ON/OFF | Yes    |
| Adjustable response value current / I <sub>g</sub> min.            | 0.05 s |
| Adjustable response value current / I <sub>g</sub> min.            | 0.5 s  |
| Adjustable response value current / I <sub>g</sub> min.            | 0.05 s |
| Adjustable response value current / I <sub>g</sub> min.            | 0.5 s  |
| Adjustable response value current / I <sub>i</sub> min.            | 95 A   |
| Adjustable response value current / I <sub>i</sub> 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                              |     |
| • undervoltage release                         | No  |
| • Voltage trigger                              | No  |
| • undervoltage release with leading contact    | No  |
| • Trip indicator                               | Yes |
| Number of CO contacts / for auxiliary contacts | 2   |

#### Accessories

|                                                   |                                    |
|---------------------------------------------------|------------------------------------|
| Product extension / optional / motor drive        | Yes                                |
| Manufacturer's article number                     |                                    |
| • of the supplied basic switch                    | <a href="#">3VA2063-5KP32-0AA0</a> |
| • of the integrated auxiliary switch/alarm switch | <a href="#">3VA9988-0AA12</a>      |
| • of the integrated auxiliary switch/alarm switch | <a href="#">3VA9988-0AB12</a>      |

#### Environmental conditions

|                                    |        |
|------------------------------------|--------|
| Protection class IP / on the front | IP40   |
| Ambient temperature                |        |
| • during operation / minimum       | -25 °C |

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

70 °C  
-40 °C  
80 °C

## Certificates

Reference code / acc. to DIN EN 81346-2

Q

### General Product Approval

### EMC

### Test Certificates



CCC



VDE

[Miscellaneous](#)



RCM

[Type Test  
Certificates/Test  
Report](#)

### Test Certificates

### Shipping Approval

[Miscellaneous](#)

[Special Test  
Certificate](#)



ABS



BUREAU  
VERITAS



GL



LRS

### Shipping Approval

### other



RMRS

[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=3VA2063-5KP32-0AF0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2063-5KP32-0AF0>

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

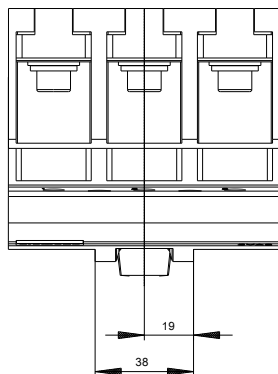
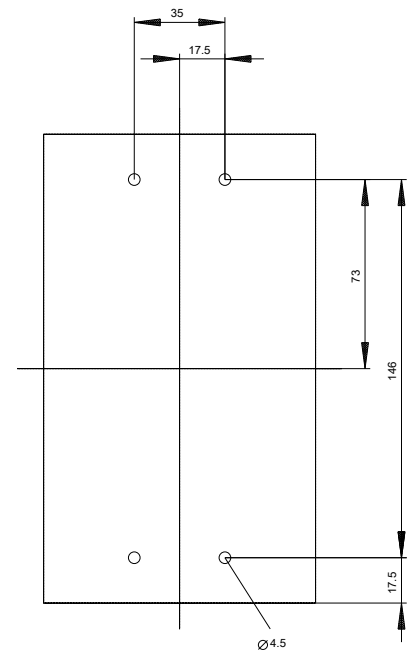
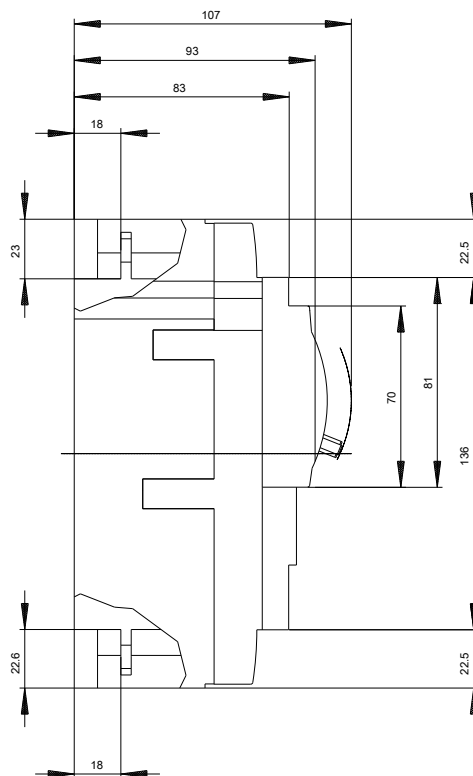
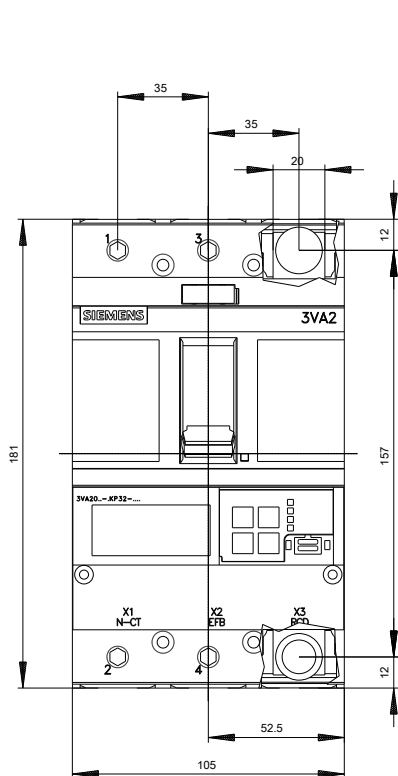
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2063-5KP32-0AF0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2063-5KP32-0AF0)

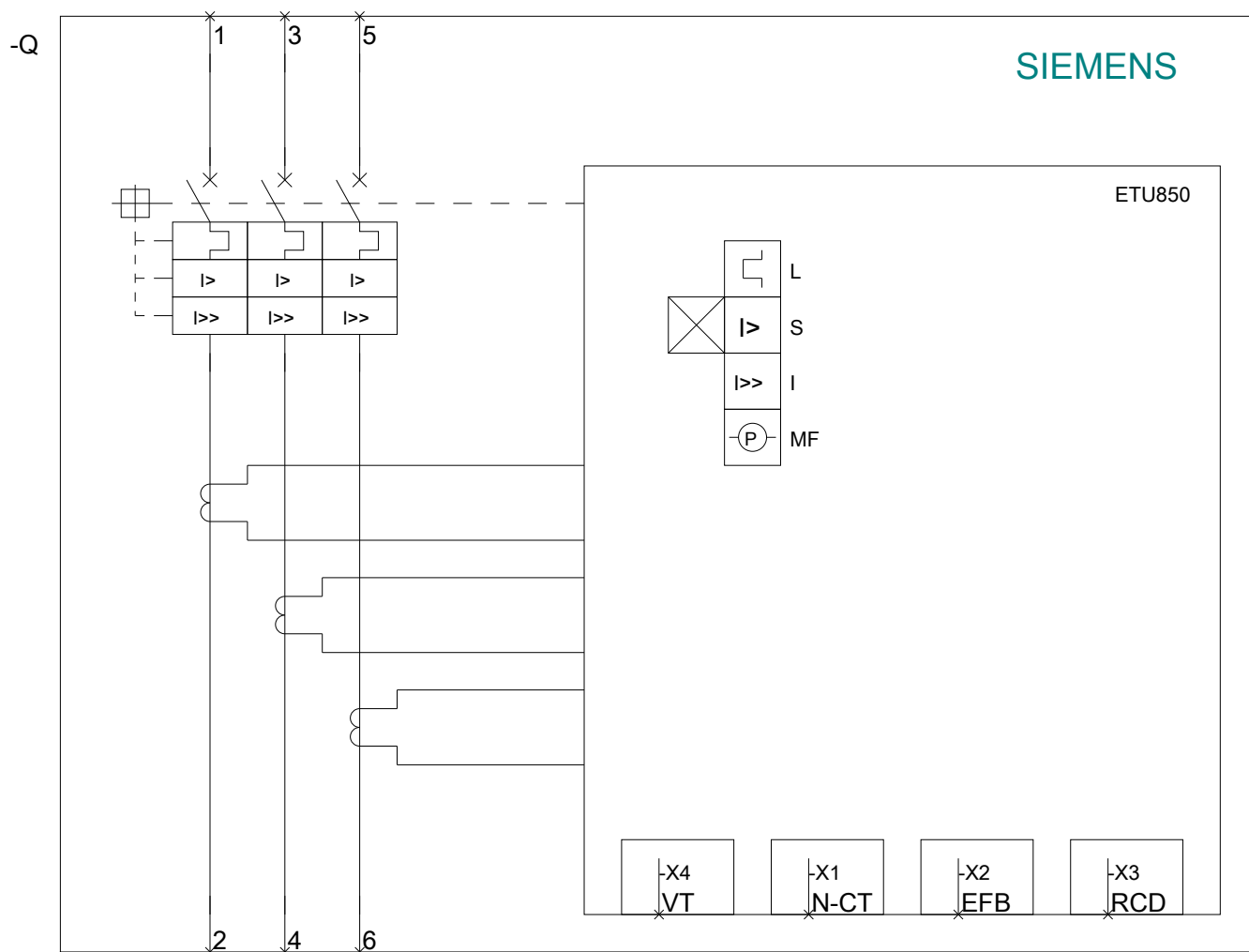
**CAX-Online-Generator**

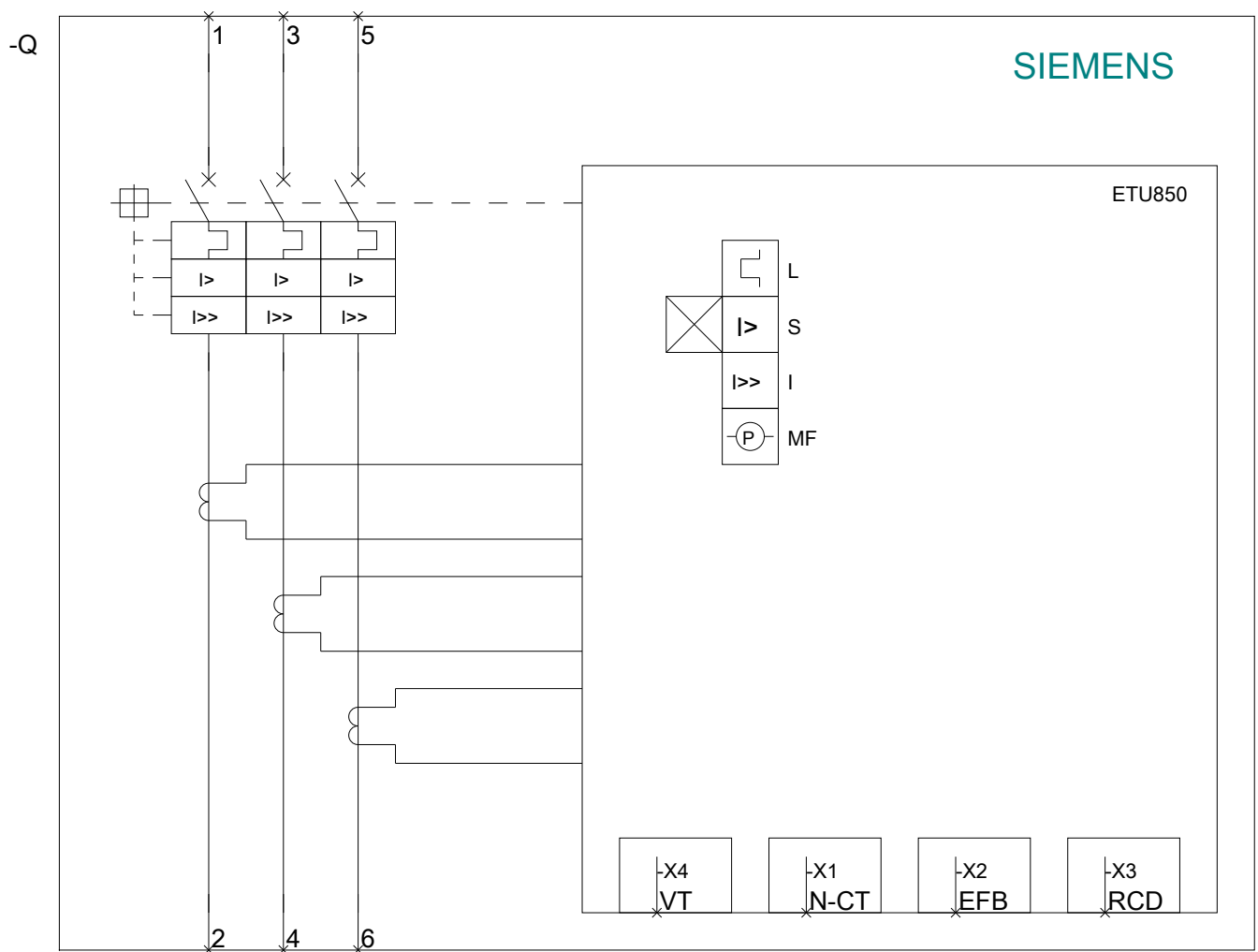
<http://www.siemens.com/cax>

**Tender specifications**

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







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