



CIRCUIT BREAKER 3VA2 IEC FRAME 400 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4-POLE, LINE PROTECTION ETU560, LSIG, IN=400A OVERLOAD PROTECTION IR=160A ...400A SHORT CIRCUIT PROTECTION ISD=0,6... 10 X IN, II=1,5 X IN NEUTRAL PROTECTION ADJUSTABLE(OFF,50%,100%) GROUND-FAULT, SWITCHABLE IG=0,2... 1 X IN, TG=0,05-0,8S BUSBAR CONNECTION SHUNT TRIP (STL) 220-250 V DC, 208-277 V AC 2 AUXILIARY SWITCH HQ 1 TRIP ALARM SWITCH HQ

| Model                                          |                                               |
|------------------------------------------------|-----------------------------------------------|
| product brandname                              | SETRON                                        |
| Product designation                            | Molded case circuit breaker                   |
| Design of the product                          | Line protection                               |
| Design of the overcurrent release              | ETU560                                        |
| Protective function of the overcurrent release | LSIG                                          |
| Number of poles                                | 4                                             |
| Design of the auxiliary release                | Shunt trip (STL)                              |
| Design of the auxiliary switch                 | 2 auxiliary switches + 1 trip alarm switch 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 | 96 W   |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole   | 32 W   |
| Mechanical service life (switching cycles) / typical                                             | 15 000 |
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz                        | 6 000  |

|                                               |                                             |
|-----------------------------------------------|---------------------------------------------|
| Neutral conductors / upgradeable/retrofitable | No                                          |
| Ground fault monitoring version               | Summation current formation L + N conductor |
| Product function                              |                                             |
| • communication function                      | Yes                                         |
| • Phase failure detection                     | No                                          |
| • other measurement function                  | No                                          |
| Net weight                                    | 5.8 kg                                      |

## Electricity

|                                                                   |       |
|-------------------------------------------------------------------|-------|
| Max. rated operational voltage of the size of the circuit-breaker | 400 A |
| Courant permanent assigné Iu                                      | 400 A |
| Operating current                                                 |       |
| • at 40 °C                                                        | 400 A |
| • at 45 °C                                                        | 400 A |
| • at 50 °C                                                        | 400 A |
| • at 55 °C                                                        | 375 A |
| • at 60 °C                                                        | 350 A |
| • at 65 °C                                                        | 325 A |
| • at 70 °C                                                        | 300 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                                                | 10 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                                                | 10 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                                                | 75.6 kA |
| • at 690 V                                                | 17 kA   |

## Adjustable parameters

|                                                                    |         |
|--------------------------------------------------------------------|---------|
| Adjustable response value current / I <sub>g</sub> min.            | 160 A   |
| Adjustable response value current / I <sub>g</sub> min.            | 400 A   |
| Adjustable response value current / I <sub>g</sub> min.            | 0.5     |
| Adjustable response value current / I <sub>g</sub> min.            | 17      |
| Adjustable response value current / I <sub>g</sub> min.            | 240 A   |
| Adjustable response value current / I <sub>g</sub> min.            | 4 000 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>i</sub> min.            | 600 A   |
| Adjustable response value current / I <sub>i</sub> max.            | 4 000 A |
| Ground fault protection can be switched ON/OFF                     | Yes     |
| Adjustable response value current / I <sub>g</sub> min.            | 80 A    |
| Adjustable response value current / I <sub>g</sub> max.            | 400 A   |

### Mechanical Design

|        |        |
|--------|--------|
| Height | 248 mm |
| Width  | 184 mm |
| Depth  | 110 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. | 20 x 1         |
| Type of connectable conductor cross-section, connection screw, width x thickness , max. | 35 x 10        |

### Auxiliary circuit

|                                                |     |
|------------------------------------------------|-----|
| Product component                              |     |
| • undervoltage release                         | No  |
| • Voltage trigger                              | Yes |
| • undervoltage release with leading contact    | No  |
| • Trip indicator                               | Yes |
| Number of CO contacts / for auxiliary contacts | 3   |

### Accessories

|                                                   |                                    |
|---------------------------------------------------|------------------------------------|
| Product extension / optional / motor drive        | Yes                                |
| Manufacturer's article number                     |                                    |
| • of the supplied basic switch                    | <a href="#">3VA2340-5JQ42-0AA0</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>      |
| • of the integrated auxiliary trip                | 3VA9688-0BL33                      |

## 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                                                                               |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <br>CCC | <br>VDE | <br>EAC | <br>RCM | <br>EG-Konf. |
| <a href="#">Typprüfbescheinigung/Werkszeugnis</a>                                        |                                                                                          |                                                                                          |                                                                                          |                                                                                                 |

| Test Certificates       | Shipping Approval                                                                         |                                                                                                         |                                                                                          |                                                                                             |                                                                                              |
|-------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <a href="#">sonstig</a> | <br>ABS | <br>BUREAU<br>VERITAS | <br>GL | <br>LRS | <br>RMRS |

| other                   |
|-------------------------|
| <a href="#">sonstig</a> |

## Further information

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

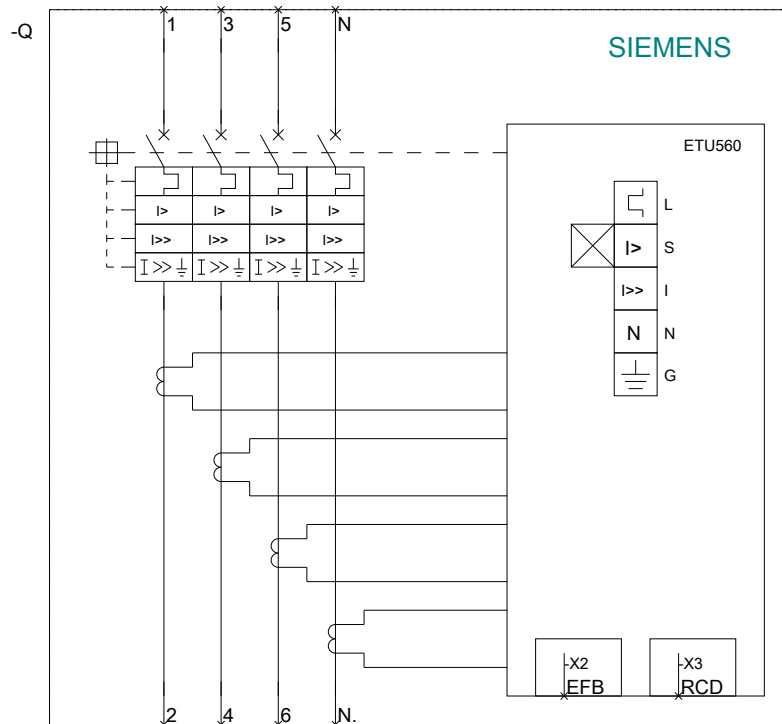
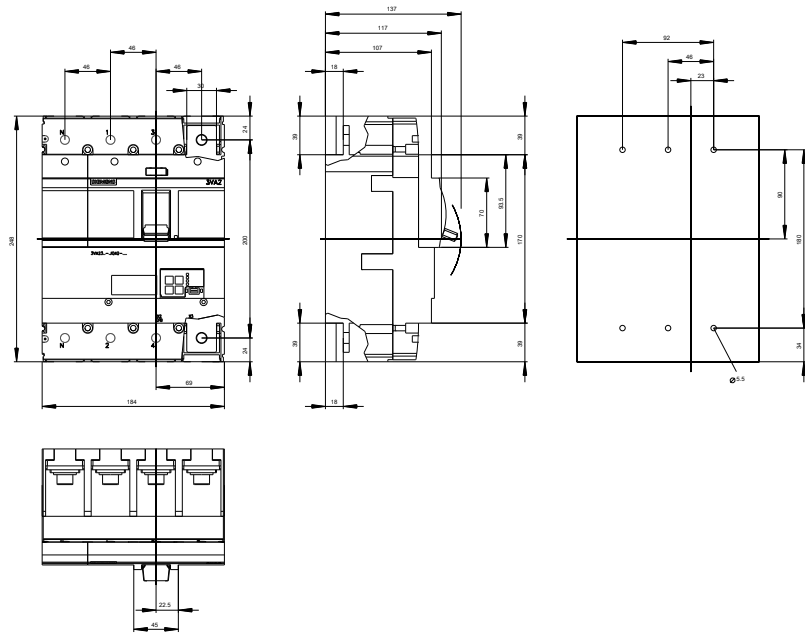
**Industry Mall (Online ordering system)**  
<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA2340-5JQ42-0KH0>

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**  
<http://support.automation.siemens.com/WW/view/en/3VA2340-5JQ42-0KH0/all>

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**  
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2340-5JQ42-0KH0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2340-5JQ42-0KH0)

**CAX-Online-Generator**  
<http://www.siemens.com/cax>

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



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