



circuit breaker 3VA2 IEC frame 630 breaking capacity class M  
Icu=55kA @ 415V 4-pole, line protection ETU340, ELISA LI, In=400A  
overload protection Ir=160A...400A short-circuit protection Ii=15 x In  
N conductor protection adjustable (OFF, 50%, 100%) nut keeper kit

| Model                                          |                             |
|------------------------------------------------|-----------------------------|
| product brand name                             | SENTRON                     |
| product designation                            | Molded case circuit breaker |
| Product version                                | Line protection             |
| design of the overcurrent release              | ETU340                      |
| protection function of the overcurrent release | ELISA LI                    |
| number of poles                                | 4                           |

| General technical data                                                                         |        |
|------------------------------------------------------------------------------------------------|--------|
| Tension assignée d'isolement Ui                                                                | 800 V  |
| Max. rated operational voltage Ue with AC 50/60Hz                                              | 690 V  |
| power loss [W] / maximum                                                                       | 63.3 W |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 21.1 W |
| mechanical service life (switching cycles) / typical                                           | 15 000 |
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz                      | 4 000  |
| Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz                          | 4 000  |
| Neutral conductors / upgradeable/retrofitable                                                  | No     |

|                                 |         |
|---------------------------------|---------|
| ground fault monitoring version | Without |
| product function                |         |
| • communication function        | No      |
| • other measurement function    | No      |
| net weight                      | 5.7 kg  |

#### Current

|                                                  |       |
|--------------------------------------------------|-------|
| Max. rated operational current of the frame size | 630 A |
| Courant permanent assigné lu                     | 400 A |
| operating current                                |       |
| • at 40 °C                                       | 400 A |
| • at 45 °C                                       | 400 A |
| • at 50 °C                                       | 400 A |
| • at 55 °C                                       | 384 A |
| • at 60 °C                                       | 372 A |
| • at 65 °C                                       | 356 A |
| • at 70 °C                                       | 340 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                                                | 6 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                                                | 6 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                                                | 76 kA   |
| • at 690 V                                                | 10.2 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. | 1500  |

|                                                                         |                           |
|-------------------------------------------------------------------------|---------------------------|
| Adjustable response value current / I <sub>g</sub> min.                 | 1500                      |
| Short-term delayed / tripping switchable / I <sub>2t</sub> =ON/OFF      | No                        |
| Adjustable response value current / I <sub>i</sub> min.                 | 6 000 A                   |
| Adjustable response value current / I <sub>i</sub> max.                 | 6 000 A                   |
| design of the N-conductor protection                                    | adjustable OFF; 50%; 100% |
| Ground fault protection / tripping switchable / I <sub>2t</sub> =ON/OFF | No                        |

#### Mechanical Design

|             |        |
|-------------|--------|
| height [in] | 9.8 in |
| Height      | 248 mm |
| width [in]  | 7.2 in |
| Width       | 184 mm |
| depth [in]  | 4.3 in |
| depth       | 110 mm |

#### Connections

|                                                                                         |                              |
|-----------------------------------------------------------------------------------------|------------------------------|
| arrangement of electrical connectors / for main current circuit                         | Front terminal               |
| type of electrical connection / for main current circuit                                | on both sides nut keeper kit |
| Type of connectable conductor cross-section, connection screw, width x thickness , min. | 20 x 1 mm                    |
| Type of connectable conductor cross-section, connection screw, width x thickness , max. | 35 x 10 mm                   |

#### 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  |

#### Certificates

|                                         |   |
|-----------------------------------------|---|
| reference code / acc. to DIN EN 81346-2 | Q |
|-----------------------------------------|---|

| General Product Approval | EMC | Declaration of Conformity |
|--------------------------|-----|---------------------------|
|--------------------------|-----|---------------------------|



CCC



VDE

[Miscellaneous](#)



RCM



EG-Konf.

| Test Certificates | Shipping Approval |
|-------------------|-------------------|
|-------------------|-------------------|

[Miscellaneous](#)

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



ABS



BUREAU  
VERITAS



LRS

| Shipping Approval | other |
|-------------------|-------|
|-------------------|-------|



RMRS

[CCS / China Classification Society](#)

[Manufacturer Declaration](#)

[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=3VA2440-5HK42-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2440-5HK42-0AA0>

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

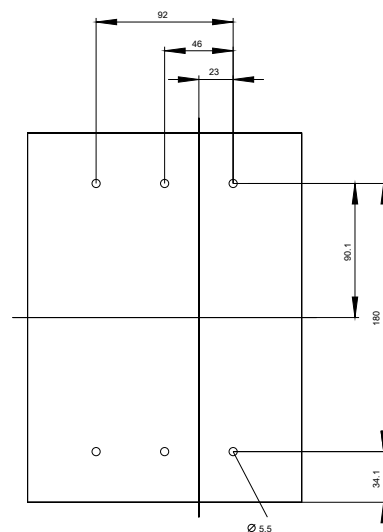
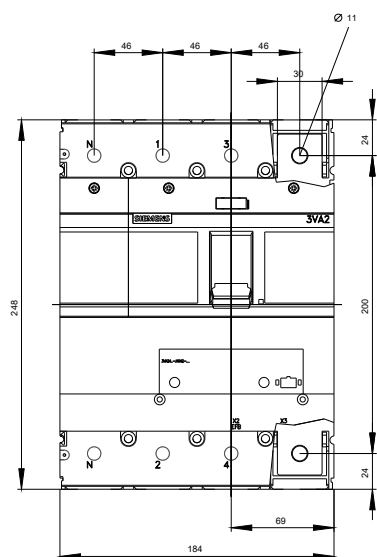
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2440-5HK42-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2440-5HK42-0AA0)

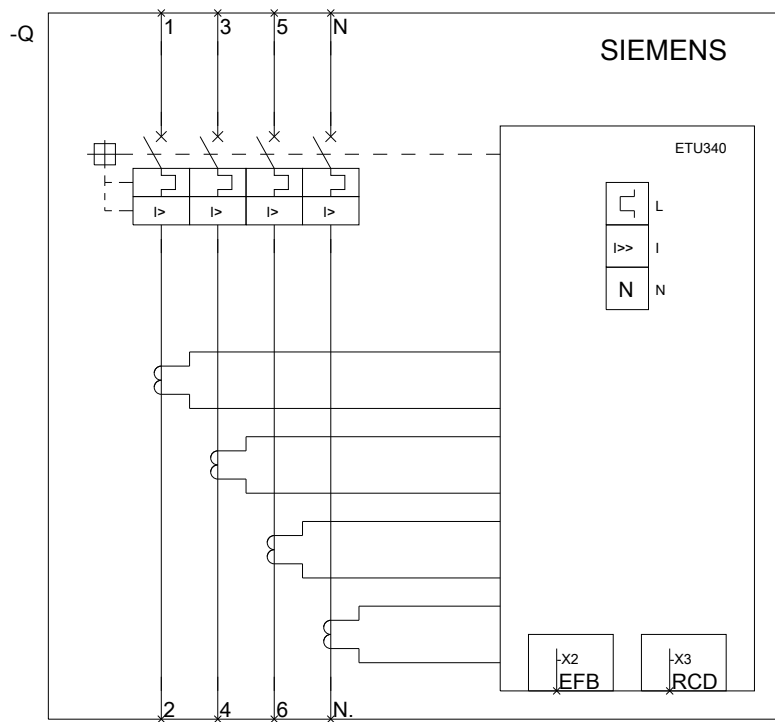
**CAX-Online-Generator**

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

**Tender specifications**

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





Siemens

3VA2xxx-xHK4x-0AA

Format / Size: Hybrid quer

last modified:

10/30/2020