



circuit breaker 3VA2 IEC frame 400 breaking capacity class C  
Icu=110kA @ 415V 4-pole, line protection ETU320, LI, In=400A  
overload protection Ir=160A...400A short-circuit protection Ii=1.5...10  
x In N conductor protection adjustable (OFF, 50%, 100%) nut keeper  
kit

| Model                                          |                             |
|------------------------------------------------|-----------------------------|
| Product brand name                             | SETRON                      |
| Product designation                            | Molded case circuit breaker |
| Product version                                | Line protection             |
| Design of the overcurrent release              | ETU320                      |
| Protective function of the overcurrent release | LI                          |
| Number of poles                                | 4                           |

| General technical data                                                                         |        |
|------------------------------------------------------------------------------------------------|--------|
| Rated insulation voltage Ui                                                                    | 800 V  |
| Max. rated operational voltage Ue with AC 50/60Hz                                              | 690 V  |
| Power loss [W] / maximum                                                                       | 96 W   |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 32 W   |
| Latching - endurance                                                                           | 20 000 |
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz                      | 6 000  |
| Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz                          | 5 000  |
| Neutral conductors / upgradeable/retrofittable                                                 | 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 | 400 A |
| Rated continuous current I <sub>u</sub>          | 400 A |
| Operating current                                |       |
| • at 40 °C                                       | 400 A |
| • at 45 °C                                       | 400 A |
| • at 50 °C                                       | 400 A |
| • at 55 °C                                       | 385 A |
| • at 60 °C                                       | 370 A |
| • at 65 °C                                       | 355 A |
| • at 70 °C                                       | 340 A |

#### Switching capacity according to IEC 60947

|                                                                        |        |
|------------------------------------------------------------------------|--------|
| Switching capacity class of the circuit breaker                        | C      |
| Maximum short-circuit current breaking capacity (I <sub>cu</sub> )     |        |
| • at 240 V                                                             | 150 kA |
| • at 415 V                                                             | 110 kA |
| • at 440 V                                                             | 110 kA |
| • at 500 V                                                             | 85 kA  |
| • at 690 V                                                             | 5 kA   |
| Operational short-circuit current breaking capacity (I <sub>cs</sub> ) |        |
| • at 240 V                                                             | 150 kA |
| • at 415 V                                                             | 110 kA |
| • at 440 V                                                             | 110 kA |
| • at 500 V                                                             | 65 kA  |
| • at 690 V                                                             | 5 kA   |
| Short-circuit current making capacity (I <sub>cm</sub> )               |        |
| • at 240 V                                                             | 330 kA |
| • at 415 V                                                             | 242 kA |
| • at 440 V                                                             | 242 kA |
| • at 500 V                                                             | 187 kA |
| • at 690 V                                                             | 7.5 kA |

#### Adjustable parameters

|                                                         |       |
|---------------------------------------------------------|-------|
| Adjustable response value current / I <sub>r</sub> min. | 160 A |
| Adjustable response value current / I <sub>r</sub> max. | 400 A |
| Adjustable response value time / t <sub>r</sub> min.    | 0.5   |

|                                                            |                           |
|------------------------------------------------------------|---------------------------|
| Adjustable response value time / tr max.                   | 17                        |
| Short-term delayed / tripping switchable / I2t=ON/OFF      | No                        |
| Adjustable response value current / li min.                | 600 A                     |
| Adjustable response value current / li max.                | 4 000 A                   |
| Design of the N-conductor protection                       | adjustable OFF; 50%; 100% |
| Ground fault protection / tripping switchable / I2t=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        | Lug terminal   |

#### 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       | -40 °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=3VA2340-7HL42-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2340-7HL42-0AA0>

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

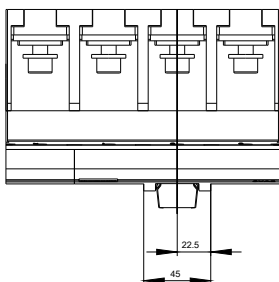
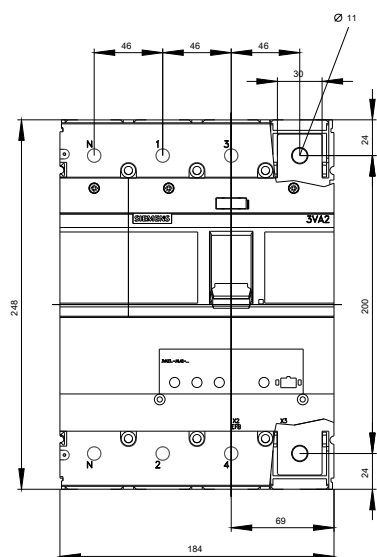
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2340-7HL42-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2340-7HL42-0AA0)

**CAX-Online-Generator**

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

**Tender specifications**

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





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