



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 3-POLE, LINE PROTECTION ETU340, ELISA LI, IN=40A OVERLOAD PROTECTION IR=16A ...40A SHORT CIRCUIT PROTECTION II=15 X IN CABLE CONNECTION

| Model                                                                                            |                             |
|--------------------------------------------------------------------------------------------------|-----------------------------|
| product brandname                                                                                | SENTRON                     |
| Product designation                                                                              | Molded case circuit breaker |
| Design of the product                                                                            | Line protection             |
| Design of the overcurrent release                                                                | ETU340                      |
| Protective function of the overcurrent release                                                   | ELISA LI                    |
| Number of poles                                                                                  | 3                           |
| 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 | 1.6 W                       |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole   | 0.53 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                                                    | No                          |
| Ground fault monitoring version                                                                  | Without                     |

|                              |         |
|------------------------------|---------|
| Product function             |         |
| • communication function     | No      |
| • other measurement function | No      |
| Net weight                   | 2.43 kg |

### Electricity

|                                                                   |       |
|-------------------------------------------------------------------|-------|
| Max. rated operational voltage of the size of the circuit-breaker | 160 A |
| Courant permanent assigné Iu                                      | 40 A  |
| Operating current                                                 |       |
| • at 40 °C                                                        | 40 A  |
| • at 45 °C                                                        | 40 A  |
| • at 50 °C                                                        | 40 A  |
| • at 55 °C                                                        | 40 A  |
| • at 60 °C                                                        | 40 A  |
| • at 65 °C                                                        | 40 A  |
| • at 70 °C                                                        | 40 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                                                | 76 kA  |
| • at 690 V                                                | 17 kA  |

### Adjustable parameters

|                                                         |      |
|---------------------------------------------------------|------|
| Adjustable response value current / I <sub>g</sub> min. | 16 A |
| Adjustable response value current / I <sub>g</sub> min. | 40 A |
| Adjustable response value current / I <sub>g</sub> min. | 1300 |

|                                                                         |       |
|-------------------------------------------------------------------------|-------|
| Adjustable response value current / I <sub>g</sub> min.                 | 1300  |
| Short-term delayed / tripping switchable / I <sub>2t</sub> =ON/OFF      | No    |
| Adjustable response value current / I <sub>i</sub> min.                 | 600 A |
| Adjustable response value current / I <sub>i</sub> max.                 | 600 A |
| Ground fault protection / tripping switchable / I <sub>2t</sub> =ON/OFF | No    |

## Mechanical Design

|             |        |
|-------------|--------|
| Height [in] | 7.1 in |
| Height      | 181 mm |
| Width [in]  | 4.1 in |
| Width       | 105 mm |
| Depth [in]  | 3.4 in |
| Depth       | 86 mm  |

## Connections

|                                                                                 |                              |
|---------------------------------------------------------------------------------|------------------------------|
| Arrangement of electrical connectors / for main current circuit                 | Front terminal               |
| Type of electrical connection / for main current circuit                        | Box terminal                 |
| Type of connectable conductor cross-section, round conductor terminal, stranded | 1 x (6-120 mm <sup>2</sup> ) |

## 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

|                                            |   |
|--------------------------------------------|---|
| Equipment marking / acc. to DIN EN 81346-2 | Q |
|--------------------------------------------|---|

| General Product Approval                                                          |                                                                                   |                                                                                   | EMC                                                                               | Declaration of Conformity                                                           | Test Certificates                                 |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------|
|  |  |  |  |  | <a href="#">Typprüfbescheinigung/Werkszeugnis</a> |
| CCC                                                                               | VDE                                                                               |                                                                                   | RCM                                                                               | EG-Konf.                                                                            |                                                   |

| Test Certificates        | other                                         |                          |
|--------------------------|-----------------------------------------------|--------------------------|
| <a href="#">Sonstige</a> | <a href="#">spezielle Prüfbescheinigungen</a> | <a href="#">Sonstige</a> |
|                          | <a href="#">n</a>                             |                          |

#### 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=3VA2140-5HK36-0AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VA2140-5HK36-0AA0/all>

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

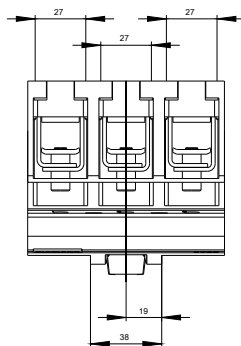
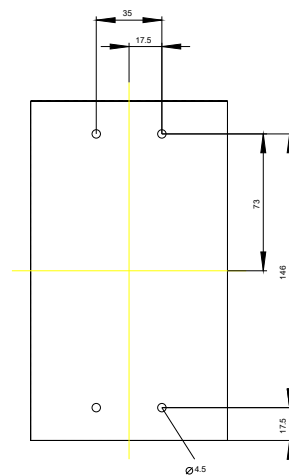
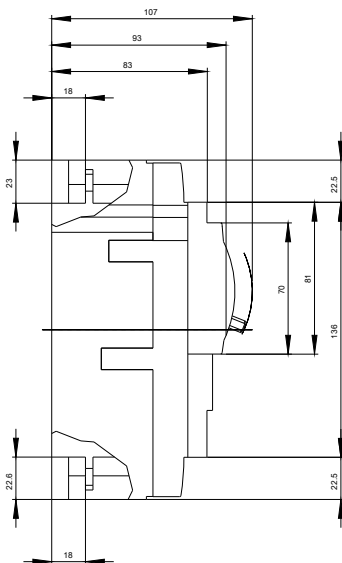
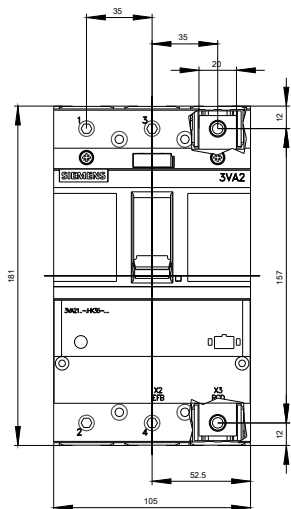
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2140-5HK36-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2140-5HK36-0AA0)

**CAX-Online-Generator**

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

**Tender specifications**

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





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