

Siemens  
EcoTech



circuit breaker 3VA2 IEC Frame 160 breaking capacity class M Icu=55 kA @ 415 V  
3-pole, line protection ETU340, ELISA LI, In=63 A overload protection Ir=25 A...63  
A short-circuit protection Ii=15 x In nut keeper kit



| Model   |                             |
|---|-----------------------------|
| product brand name  | SENTRON                     |
| product designation   | Molded case circuit breaker |
| design of the product   | Line protection             |
| design of the overcurrent release   | ETU340                      |
| protection function of the overcurrent release  | ELISA LI                    |
| number of poles   | 3                           |
| General technical data  |                             |
| insulation voltage / rated value  | 800 V                       |
| operating voltage / at AC / rated value   | 690 V                       |
| power loss [W] / maximum  | 4 W                         |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole           | 1.33 W                      |
| mechanical service life (operating cycles) / typical  | 25 000                      |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V                                      | 14 000                      |
| electrical endurance (operating cycles) / at AC-1 / at 690 V  | 9 800                       |
| product feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof | No                          |
| ground-fault monitoring version   | Without                     |
| product function  |                             |
| • communication function  | No                          |
| • other measurement function  | No                          |
| Net Weight  | 2.157 kg                    |
| Current   |                             |
| operational current   |                             |
| • at 40 °C  | 63 A                        |
| • at 45 °C  | 63 A                        |
| • at 50 °C  | 63 A                        |
| • at 55 °C  | 63 A                        |
| • at 60 °C  | 63 A                        |
| • at 65 °C  | 63 A                        |
| • at 70 °C  | 63 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                       |

|  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• at 500 V</li> <li>• at 690 V</li> </ul>   | 36 kA<br>2.5 kA                                 |
| operating short-circuit current breaking capacity (Ics)  |   |
| <ul style="list-style-type: none"> <li>• at 240 V</li> <li>• at 415 V</li> <li>• at 440 V</li> <li>• at 500 V</li> <li>• at 690 V</li> </ul> | 85 kA<br>55 kA<br>55 kA<br>36 kA<br>2.5 kA      |
| short-circuit current making capacity (Icm)  |   |
| <ul style="list-style-type: none"> <li>• at 240 V</li> <li>• at 415 V</li> <li>• at 440 V</li> <li>• at 500 V</li> <li>• at 690 V</li> </ul> | 187 kA<br>121 kA<br>121 kA<br>75.6 kA<br>3.7 kA |

#### Adjustable parameters

|  |                    |
|--|--------------------|
| product feature / for L-tripping / can be switched on/off                            | No                 |
| adjustable current response value current / of the L-trip / with I4t characteristic  | 25 ... 63 A        |
| adjustable response value delay time (tr) / for L-tripping / with I4t characteristic |                    |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>       | 1 300 s<br>1 300 s |
| adjustable response value setting current (Ii) / for I-tripping                      |                    |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>       | 945 A<br>945 A     |
| adjustable setting current (InN) / for N-tripping                                    |                    |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>       | 0 A<br>0 A         |
| product function / grounding protection  | No                 |

#### Mechanical Design

|   |                |
|---|----------------|
| product component   |                |
| <ul style="list-style-type: none"> <li>• undervoltage release</li> <li>• voltage trigger</li> <li>• trip indicator</li> </ul> | No<br>No<br>No |
| height [in]   | 7.13 in        |
| height  | 181 mm         |
| width [in]  | 4.13 in        |
| width   | 105 mm         |
| depth [in]  | 3.39 in        |
| depth   | 86 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-sections / for flat-bar terminal connection / minimum | 13 x 1 mm                    |
| type of connectable conductor cross-sections / for flat-bar terminal connection / maximum | 25 x 8 mm                    |
| design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)        | tin                          |
| design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)     | tin                          |

#### 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  |                                    |
| <ul style="list-style-type: none"> <li>• during operation / minimum</li> <li>• during operation / maximum</li> <li>• during storage / minimum</li> <li>• during storage / maximum</li> </ul> | -25 °C<br>70 °C<br>-40 °C<br>80 °C |

## Environmental footprint

|  |                 |
|--|-----------------|
| Global Warming Potential [CO2 eq] / total                | 61.814 kg       |
| Global Warming Potential [CO2 eq] / during manufacturing | 14.6 kg         |
| Global Warming Potential [CO2 eq] / during operation     | 48.9 kg         |
| Global Warming Potential [CO2 eq] / after end of life    | -2.2 kg         |
| Siemens Eco Profile (SEP)                                | Siemens EcoTech |
| reference code / according to IEC 81346-2                | Q               |

## Approvals / Certificates

### General Product Approval



[Confirmation](#)



[Miscellaneous](#)

|                          |     |                   |                   |
|--------------------------|-----|-------------------|-------------------|
| General Product Approval | EMV | Test Certificates | Marine / Shipping |
|--------------------------|-----|-------------------|-------------------|



[Miscellaneous](#)

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



|                   |       |                 |
|-------------------|-------|-----------------|
| Marine / Shipping | other | Dangerous goods |
|-------------------|-------|-----------------|



[CCS \(China Classification Society\)](#)

[Confirmation](#)

[Miscellaneous](#)

[Miscellaneous](#)

[Transport Information](#)

## Environment



[Environmental Confirmations](#)

[Environmental Confirmations](#)

## Further information

### Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

### 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=3VA2163-5HK32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2163-5HK32-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2163-5HK32-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2163-5HK32-0AA0)

### CAX-Online-Generator

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

### Tender specifications

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





