

circuit breaker 3VA2 IEC frame 100 breaking capacity class L  
 $I_{cu}=150\text{kA}$  @ 415V 3-pole, line protection ETU850, LSI,  $I_n=40\text{A}$   
 overload protection  $I_r=16\text{A}\dots40\text{A}$  short-circuit protection  $I_{sd}=0.6\dots10\times I_n$ ,  $I_i=1.5\dots12\times I_n$  N conductor protection optionally with external current transformer, up to 160% nut keeper kit



| Model  |                             |
|--|-----------------------------|
| Product brand name                             | SENTRON                     |
| Product designation                            | Molded case circuit breaker |
| Product version                                | Line protection             |
| Design of the overcurrent release              | ETU850                      |
| Protective function of the overcurrent release | LSI                         |
| Number of poles                                | 3                           |

| General technical data   |        |
|--|--------|
| Rated insulation voltage $U_i$   | 800 V  |
| Max. rated operational voltage $U_e$ with AC 50/60Hz   | 690 V  |
| Power loss [W] / maximum   | 1.2 W  |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 0.4 W  |
| Mechanical service life (switching cycles) / typical   | 20 000 |
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz                      | 14 000 |
| Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz                          | 8 000  |
| Neutral conductors / upgradeable/retrofittable   | Yes    |

|                                 |         |
|---------------------------------|---------|
| Ground fault monitoring version | Without |
| Product function                |         |
| • communication function        | Yes     |
| • other measurement function    | Yes     |
| Net weight                      | 2.3 kg  |

### Current

|  |       |
|--|-------|
| Max. rated operational current of the frame size | 100 A |
| Rated continuous current $I_u$                   | 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                  | L      |
| Maximum short-circuit current breaking capacity ( $I_{cu}$ )     |        |
| • at 240 V   | 200 kA |
| • at 415 V   | 150 kA |
| • at 440 V   | 150 kA |
| • at 500 V   | 100 kA |
| • at 690 V   | 25 kA  |
| Operational short-circuit current breaking capacity ( $I_{cs}$ ) |        |
| • at 240 V   | 200 kA |
| • at 415 V   | 150 kA |
| • at 440 V   | 150 kA |
| • at 500 V   | 100 kA |
| • at 690 V   | 18 kA  |
| Short-circuit current making capacity ( $I_{cm}$ )               |        |
| • at 240 V   | 440 kA |
| • at 415 V   | 330 kA |
| • at 440 V   | 330 kA |
| • at 500 V   | 220 kA |
| • at 690 V   | 53 kA  |

### Adjustable parameters

|  |      |
|--|------|
| Adjustable response value current / $I_r$ min. | 16 A |
| Adjustable response value current / $I_r$ max. | 40 A |
| Adjustable response value time / $t_r$ min.    | 0.5  |

|  |        |
|--|--------|
| Adjustable response value time / tr max.                   | 25     |
| Adjustable response value current / Isd min.               | 24 A   |
| Adjustable response value current / Isd max.               | 400 A  |
| Short-term delayed / tripping switchable / I2t=ON/OFF      | Yes    |
| Adjustable response value time / tsd min.                  | 0.05 s |
| Adjustable response value time / tsd max.                  | 0.5 s  |
| Adjustable response value time / tsd min.                  | 0.05 s |
| Adjustable response value time / tsd max.                  | 0.5 s  |
| Adjustable response value current / li min.                | 60 A   |
| Adjustable response value current / li max.                | 480 A  |
| Ground fault protection / tripping switchable / I2t=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                                | on both sides nut keeper kit |
| Type of connectable conductor cross-section, connection screw, width x thickness , min. | 13 x 1 mm                    |
| Type of connectable conductor cross-section, connection screw, width x thickness , max. | 25 x 8.5 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  |  |
| <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> | <ul style="list-style-type: none"> <li>-25 °C</li> <li>70 °C</li> <li>-40 °C</li> <li>80 °C</li> </ul> |

### Certificates

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

|                          |     |
|--------------------------|-----|
| General Product Approval | EMC |
|--------------------------|-----|



CCC



VDE

**CB**

CB

[Miscellaneous](#)

**EAC**



RCM

|                           |                   |                   |
|---------------------------|-------------------|-------------------|
| Declaration of Conformity | Test Certificates | Shipping Approval |
|---------------------------|-------------------|-------------------|



EG-Konf.

[Type Test Certificates/Test Report](#)

[Miscellaneous](#)

[Special Test Certificate](#)



ABS



BUREAU VERITAS

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



LRS



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=3VA2040-8KP32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2040-8KP32-0AA0>

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

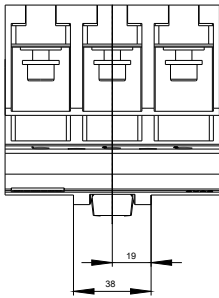
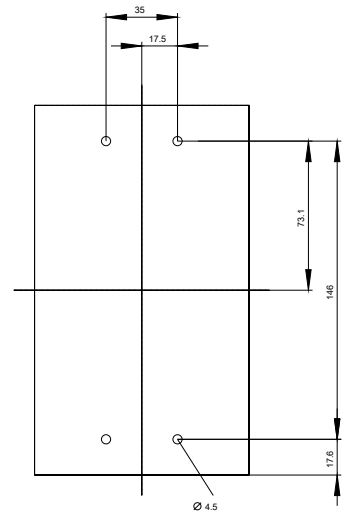
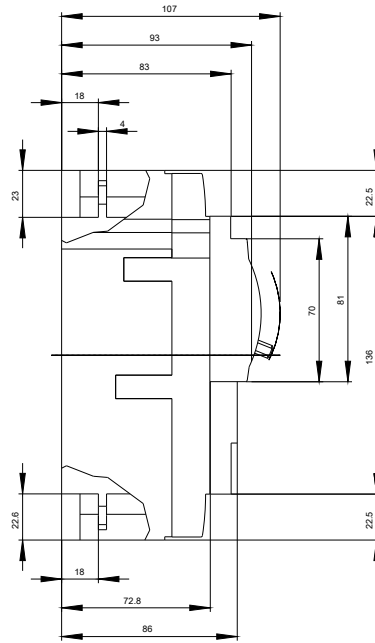
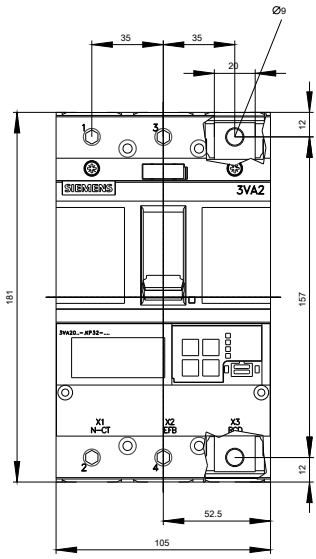
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2040-8KP32-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2040-8KP32-0AA0)

**CAX-Online-Generator**

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

**Tender specifications**

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





**last modified:**

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