

CIRCUIT BREAKER 3VA5 UL FRAME 125 BREAKING CAPACITY CLASS H 65KA @ 480V 3-POLE, LINE PROTECTION TM230, FTAM, IN=60A OVERLOAD PROTECTION IR=60A FIXED SHORT CIRCUIT PROTECTION II=5...10 X IN UL489 SB (NAVAL), 50 DEG CEL. W/O CONNECTION



| Model   |                             |
|---|-----------------------------|
| Product brand name  | SENTRON                     |
| Product designation   | Molded-case circuit breaker |
| Design of the product   | System protection           |
| Design of the load switch / acc. to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) | Yes                         |
| Design of the overcurrent release   | TM230                       |
| Protective function of the overcurrent release  | LI                          |
| Number of poles   | 3                           |
| General technical data  |                             |
| Active power loss / for rated value of the current / at AC / in hot operating state / per device                      | 15.3 W                      |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole                        | 5.1 W                       |
| Mechanical service life (switching cycles) / typical  | 15 000                      |
| Electrical endurance (switching cycles) / at 480 V / at 50/60 Hz  | 8 000                       |
| Electrical endurance (switching cycles) / at 600 V / at 50/60 Hz  | 4 000                       |

|   |         |
|---|---------|
| Neutral conductors / upgradeable/retrofitable | No      |
| Ground fault monitoring version               | Without |
| Product function                              |         |
| • communication function                      | No      |
| • other measurement function                  | No      |

### Electricity

|   |          |
|---|----------|
| Marking / acc. to UL 489 / 100%-rated breaker                     | No       |
| Max. rated operational voltage of the size of the circuit-breaker | 125 A    |
| Courant permanent assigné lu                                      | 60 A     |
| Operating current   |          |
| • at 40 °C  | 60 A     |
| • at 45 °C  | 60 A     |
| • at 50 °C  | 60 A     |
| • at 55 °C  | 58.427 A |
| • at 60 °C  | 57.42 A  |
| • at 65 °C  | 56.448 A |
| • at 70 °C  | 55.51 A  |

### Switching capacity according to IEC 60947

|   |   |
|---|---|
| Switching capacity class of the circuit breaker | H |
|---|---|

### Switching capacity according to UL 489

|                           |        |
|---------------------------|--------|
| Breaking capacity current |        |
| • at 240 V                | 100 kA |
| • at 480 Y/277 V          | 65 kA  |
| • at 480 V                | 65 kA  |
| • at 600 Y/347 V          | 18 kA  |

### Adjustable parameters

|  |       |
|--|-------|
| Adjustable response value current / lg min.                | 60 A  |
| Adjustable response value current / lg min.                | 60 A  |
| Adjustable response value current / li min.                | 300 A |
| Adjustable response value current / li max.                | 600 A |
| Ground fault protection / tripping switchable / I2t=ON/OFF | No    |

### Mechanical Design

|             |         |
|-------------|---------|
| Height [in] | 5.5 in  |
| Height      | 140 mm  |
| Width [in]  | 3 in    |
| Width       | 76.2 mm |
| Depth [in]  | 3 in    |
| Depth       | 76.5 mm |

## Connections

|   |                    |
|---|--------------------|
| Arrangement of electrical connectors / for main current circuit | Without connection |
| Type of electrical connection / for main current circuit        | Without            |

## 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   |
| Certificate of suitability / as approval for NAVAL (no combat vessels) / Supplement SB | Yes |

### General Product Approval

### EMC

### Declaration of Conformity

### Shipping Approval



### other

[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=3VA5160-6EC31-1AA0>

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

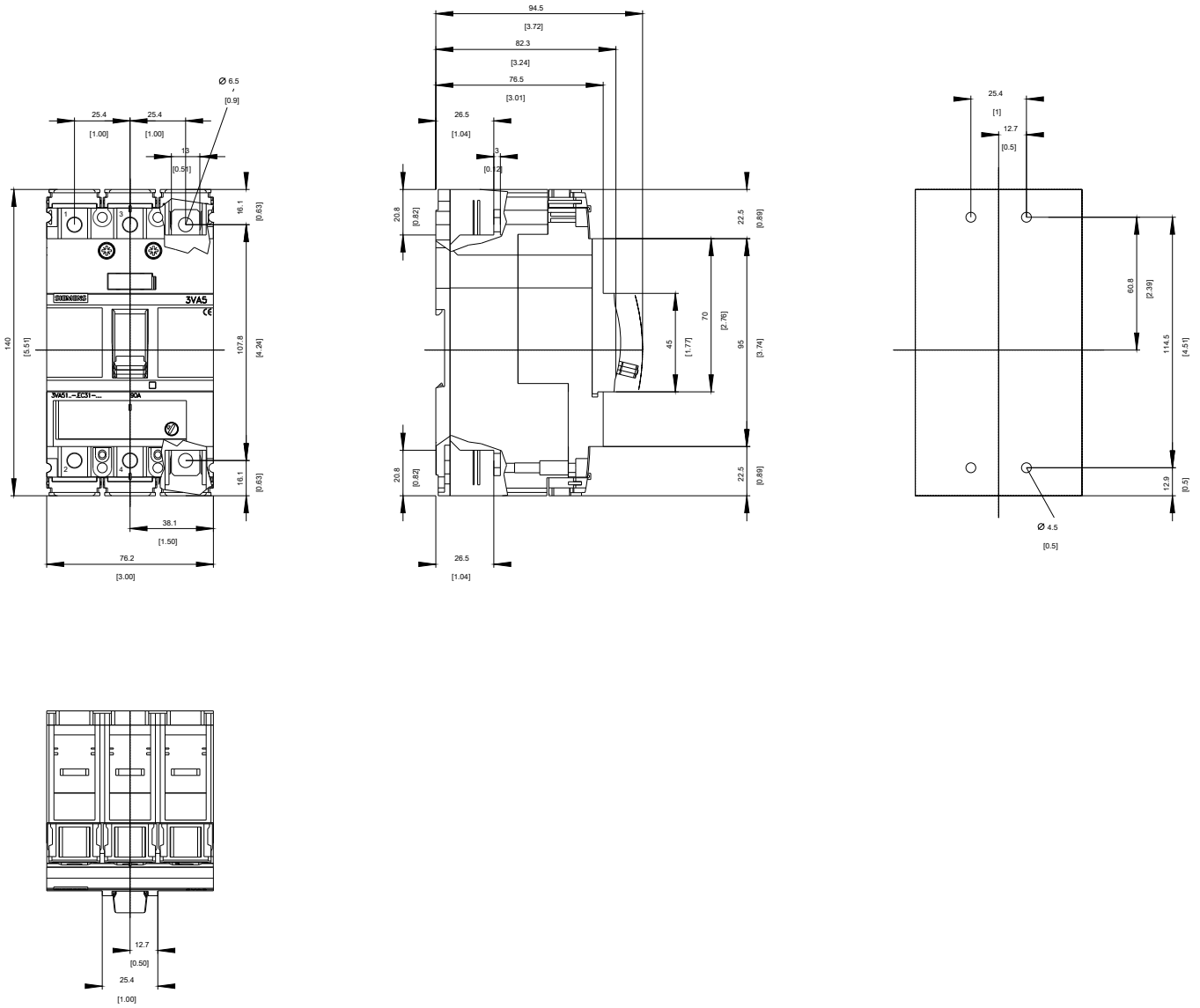
<https://support.industry.siemens.com/cs/ww/en/ps/3VA5160-6EC31-1AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA5160-6EC31-1AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5160-6EC31-1AA0)

### CAX-Online-Generator

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

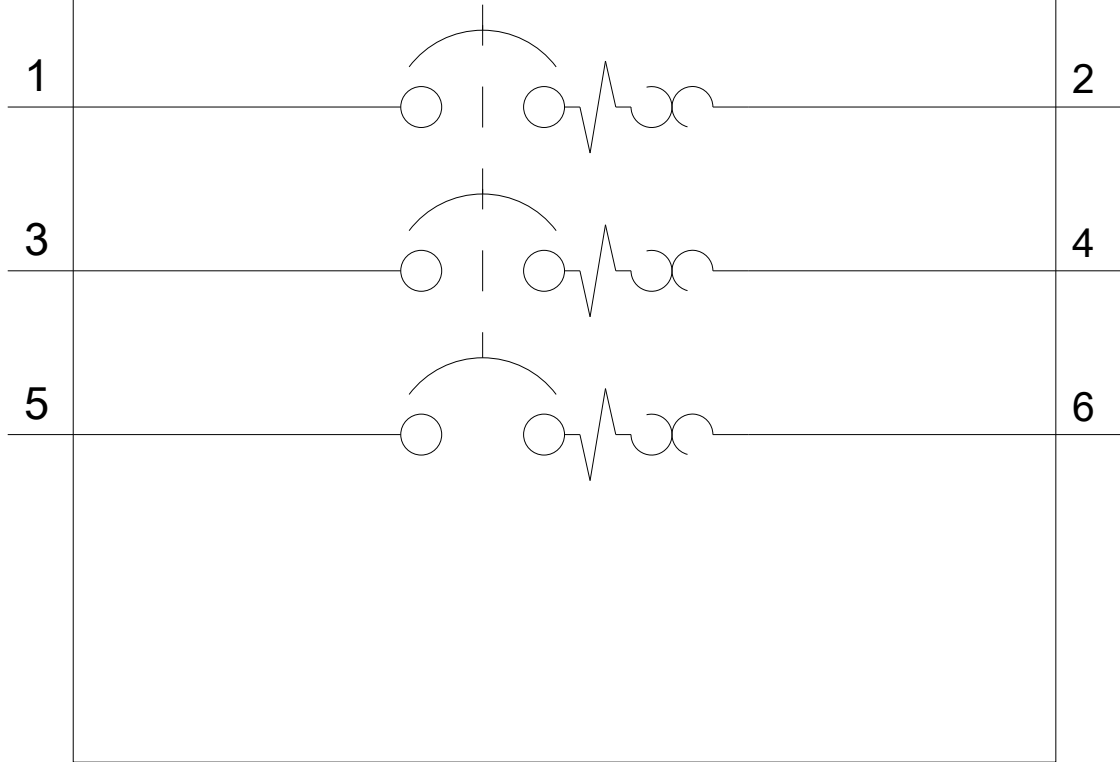


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