



circuit breaker 3VA2 IEC frame 160 breaking capacity class L  
 $I_{cu}=150\text{kA}$  @ 415V 4-pole, line protection ETU560, LSIG,  $I_n=25\text{A}$   
 overload protection  $I_r=10\text{A}...25\text{A}$  short-circuit protection  $I_{sd}=0.6..10\times I_n$ ,  $I_i=1.5..12\times I_n$  N conductor protection adjustable (OFF, up to 160%) gr.-fault prot., can be sw. off  $I_g=0.2...1 \times I_n$   $t_g=0.05-0.8\text{s}$  nut keeper kit

| Model                                          |                             |
|------------------------------------------------|-----------------------------|
| product brand name                             | SETRON                      |
| product designation                            | Molded case circuit breaker |
| Product version                                | Line protection             |
| design of the overcurrent release              | ETU560                      |
| protection function of the overcurrent release | LSIG                        |
| number of poles                                | 4                           |

| General technical data                                                                         |        |
|------------------------------------------------------------------------------------------------|--------|
| Tension assignée d'isolement $U_i$                                                             | 800 V  |
| Max. rated operational voltage $U_e$ with AC 50/60Hz                                           | 690 V  |
| power loss [W] / maximum                                                                       | 0.5 W  |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 0.17 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 |
| Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz                          | 8 000  |
| Neutral conductors / upgradeable/retrofitable                                                  | No     |

|                                 |                                             |
|---------------------------------|---------------------------------------------|
| ground fault monitoring version | Summation current formation L + N conductor |
| product function                |                                             |
| • communication function        | Yes                                         |
| • other measurement function    | No                                          |
| net weight                      | 2.94 kg                                     |

#### Current

|                                                  |       |
|--------------------------------------------------|-------|
| Max. rated operational current of the frame size | 160 A |
| Courant permanent assigné lu                     | 25 A  |
| operating current                                |       |
| • at 40 °C                                       | 25 A  |
| • at 45 °C                                       | 25 A  |
| • at 50 °C                                       | 25 A  |
| • at 55 °C                                       | 25 A  |
| • at 60 °C                                       | 25 A  |
| • at 65 °C                                       | 25 A  |
| • at 70 °C                                       | 25 A  |

#### Switching capacity according to IEC 60947

|                                                           |        |
|-----------------------------------------------------------|--------|
| switching capacity class of the circuit breaker           | L      |
| maximum short-circuit current breaking capacity (Icu)     |        |
| • 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 (Ics) |        |
| • 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 (Icm)               |        |
| • 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 <sub>g</sub> min. | 10 A |
| Adjustable response value current / I <sub>g</sub> min. | 25 A |
| Adjustable response value current / I <sub>g</sub> min. | 0.5  |

|                                                                                     |        |
|-------------------------------------------------------------------------------------|--------|
| Adjustable response value current / Ig min.                                         | 25     |
| Adjustable response value current / Ig min.                                         | 15 A   |
| Adjustable response value current / Ig min.                                         | 250 A  |
| Short-term delayed / tripping switchable / I2t=ON/OFF                               | Yes    |
| Adjustable response value current / Ig min.                                         | 0.05 s |
| Adjustable response value current / Ig min.                                         | 0.5 s  |
| Adjustable response value current / Ig min.                                         | 0.05 s |
| Adjustable response value current / Ig min.                                         | 0.5 s  |
| Adjustable response value current / li min.                                         | 38 A   |
| Adjustable response value current / li max.                                         | 300 A  |
| Ground fault protection can be switched ON/OFF                                      | Yes    |
| Ground fault protection / tripping switchable / I2t=ON/OFF                          | Yes    |
| Adjustable response value current / Ig min.                                         | 15 A   |
| Adjustable response value current / Ig max.                                         | 25 A   |
| Adjustable response value current / tg min.                                         | 0.05 s |
| Adjustable response value current / Ig min.                                         | 0.8 s  |
| Adjustable response value current / for G-tripping / with I2t characteristic / min. | 0.6 A  |
| Adjustable response value current / for G-tripping / with I2t characteristic / max. | 1 A    |

#### Mechanical Design

|             |        |
|-------------|--------|
| height [in] | 7.1 in |
| Height      | 181 mm |
| width [in]  | 5.5 in |
| Width       | 140 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                |        |
| • during operation / minimum       | -25 °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



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=3VA2125-8JQ42-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2125-8JQ42-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2125-8JQ42-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2125-8JQ42-0AA0)

### CAX-Online-Generator

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

### Tender specifications

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





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