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## Data sheet 3VL3512-1KN30-0AA0

circuit breaker VL250 UL type FG (cat no. NFK3B125) non-interchangeable frame, with circuit breaker approval acc. to UL 489 standard breaking capacity 3-pole; NEMA rating 35KA@480V and 18KA@600/347V (molded case circuit breaker) Electronic Trip Unit TM, LI TA=40°C In=125A, rated current II=800...1600A short-circuit protection IR=125A Electronic Trip Unit for line protection without connection accessories without auxiliary release without auxiliary/alarm switch

| | |
|---|---|
| **Model** | |
| **type of the driving mechanism motor drive** | No |
| **design of the overcurrent release** | TM |
| **General technical data** | |
| **number of poles** | 3 |
| **size of the circuit-breaker** | 3VL3 UL |
| mechanical service life (operating cycles) typical | 20 000 |
| electrical endurance (operating cycles) typical | 10 000 |
| **utilization category** | A |
| **performance class for circuit breaker** | N |
| **reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750** | Q |
| **operating frequency maximum** | 120 1/s |
| **Voltage** | |
| **Rated operational voltage Ue max.** | 690 V |
| insulation voltage rated value | 800 V |
| insulation voltage (Ui) at AC rated value | 800 V |
| surge voltage resistance rated value | 8 kV |
| **operating voltage** | |
| ● rated value maximum | 690 V |
| ● for main current circuit at AC at 50 Hz according to UL 489 maximum | 600 V |
| ● for main current circuit at AC at 50 Hz maximum | 690 V |
| ● for main current circuit at AC at 60 Hz according to UL 489 maximum | 600 V |
| ● for main current circuit at AC at 60 Hz maximum | 690 V |
| **Protection class** | |
| **protection class IP** | IP20 |
| **protection function of the overcurrent release** | LI |
| **Main circuit** | |
| **operating frequency** | |
| ● 1 rated value | 50 Hz |
| ● 2 rated value | 60 Hz |
| **Auxiliary circuit** | |
| number of CO contacts for auxiliary contacts | 0 |
| **number of NC contacts for auxiliary contacts** | 0 |
| **number of NO contacts for auxiliary contacts** | 0 |
| **Suitability** | |
| **suitability for use** | system protection |
| **Adjustable parameters** | |
| adjustable current response value current of the current-dependent overload release initial value | 125 A |
| **Product details** | |
| product component | |
| ● trip indicator | No |
| ● auxiliary switch | No |
| ● voltage trigger | No |
| ● undervoltage release | No |
| ● undervoltage release with leading contact | No |


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| | |
|---|---|
| product extension optional motor drive | Yes |
| **Product function** | |
| product function | |
| ● of thermal overload trip unit | fixed |
| ● grounding protection | No |
| ● for neutral conductors short-circuit and overload proof | No |
| ● overload protection | Yes |
| **Short circuit** | |
| **operating short-circuit current breaking capacity (Ics)** | |
| ● at 240 V rated value | 65 kA |
| **maximum short-circuit current breaking capacity (Icu)** | |
| ● at 240 V rated value | 65 kA |
| ● at 480 V according to NEMA rated value | 35 kA |
| **Connections** | |
| arrangement of electrical connectors for main current circuit | front side |
| type of electrical connection for main current circuit | without connection accessoires |
| **Mechanical Design** | |
| **height** | 185.5 mm |
| **width** | 104.5 mm |
| **depth** | 106.5 mm |
| **fastening method** | fixed mounting |
| **Environmental conditions** | |
| **ambient temperature during operation** | |
| ● minimum | 0 °C |
| ● maximum | 70 °C |
| **ambient temperature during storage** | |
| ● minimum | -40 °C |
| ● maximum | 80 °C |
| **Approvals Certificates** | |
| **General Product Approval** | |

Confirmation

| Test Certificates | other | | | Environment | |
|---|---|---|---|---|---|
| Special Test Certificate | Miscellaneous | Confirmation | Miscellaneous | 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=3VL3512-1KN30-0AA0
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3VL3512-1KN30-0AA0
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL3512-1KN30-0AA0
**CAx-Online-Generator**
http://www.siemens.com/cax
**Tender specifications**
http://www.siemens.com/specifications

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