

CIRCUIT-BREAKER VL 250 UL TYPE FG (CAT NO. LFK3A250) NON-INTERCHANGEABLE FRAME W. APPROBATION CIRCUIT-BREAKER ACC. UL489 VERY HIGH SWITCHING CAPACITY 3-POLE, NEMA RATING 100KA@480V AND 18KA@600/347V (MOLDED CASE CIRCUIT BREAKER) OVERCURRENT RELEASE LCD ETU, LI/LS/LSI TU= 40 DEGR. CELSIUS IN=250A, RATED CURRENT ISD=1,25-10 X IR, II=11X IN SHORT-CIRCUIT PROTECTION IR=70-250A OVERCURRENT REL. F. PLANT PROTECTION W/O CONNECTION ACCESSORIES

| Model | |
|---|------------|
| Type of the driving mechanism / motor drive | No |
| Design of the overcurrent release | LCD ETU576 |
| General technical data | |
| Number of poles | 3 |
| Size of the circuit-breaker | 3VL3 UL |
| Electrical endurance (switching cycles) / typical | 10 000 |
| Usage category | A |
| Performance class for circuit breaker | N |
| Mechanical service life (switching cycles) / typical | 20 000 |
| Equipment marking / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750 | Q |
| Operating frequency / maximum | 120 1/s |
| Voltage | |
| Rated operational voltage Ue / max. | 690 V |
| Insulation voltage | |
| • rated value | 800 V |
| • at AC / rated value | 800 V |
| Surge voltage resistance / rated value | 8 kV |
| Protection class | |
| Protection class IP | IP20 |
| Protective function of the overcurrent release | LSI |
| Dissipation | |
| Power loss [W] | |
| • maximum | 60 W |
| Electricity | |
| Operating current / at 45 °C / rated value | 237.5 A |
| Continuous current / rated value | 250 A |

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|--|-------------------|
| Derating temperature / for the rated value of the continuous current | |
| <ul style="list-style-type: none"> • acc. to UL 489 | 40 °C |
| Main circuit | |
| Operating frequency | |
| <ul style="list-style-type: none"> • 1 / rated value | 50 Hz |
| <ul style="list-style-type: none"> • 2 / rated value | 60 Hz |
| Operating voltage | |
| <ul style="list-style-type: none"> • rated value / maximum | 690 V |
| <ul style="list-style-type: none"> • for main current circuit / at AC / at 50 Hz / acc. to UL 489 / maximum | 600 V |
| <ul style="list-style-type: none"> • for main current circuit / at AC / at 50 Hz / maximum | 690 V |
| <ul style="list-style-type: none"> • for main current circuit / at AC / at 60 Hz / acc. to UL 489 / maximum | 600 V |
| <ul style="list-style-type: none"> • for main current circuit / at AC / at 60 Hz / maximum | 690 V |
| Operating current | |
| <ul style="list-style-type: none"> • at 40 °C / rated value | 250 A |
| <ul style="list-style-type: none"> • at 50 °C / rated value | 237.5 A |
| <ul style="list-style-type: none"> • at 55 °C / rated value | 200 A |
| <ul style="list-style-type: none"> • at 60 °C / rated value | 200 A |
| Suitability | |
| Suitability for use | system protection |
| Product details | |
| Product component | |
| <ul style="list-style-type: none"> • Trip indicator | No |
| <ul style="list-style-type: none"> • Auxiliary switch | No |
| <ul style="list-style-type: none"> • Voltage trigger | No |
| <ul style="list-style-type: none"> • undervoltage release | No |
| <ul style="list-style-type: none"> • undervoltage release with leading contact | No |
| Product extension / optional / motor drive | Yes |
| Product function | |
| Product function | |
| <ul style="list-style-type: none"> • of thermal overload trip unit | adjustable |
| <ul style="list-style-type: none"> • Ground fault protection | No |
| <ul style="list-style-type: none"> • for neutral conductors / Short-circuit and overload proof | No |
| <ul style="list-style-type: none"> • Overload protection | Yes |
| Short circuit | |

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| Operational short-circuit current breaking capacity (Ics) | |
| <ul style="list-style-type: none"> at 240 V / rated value | 150 kA |
| Maximum short-circuit current breaking capacity (Icu) | |
| <ul style="list-style-type: none"> at 240 V / rated value at 480 V / acc. to NEMA / rated value | 200 kA 100 kA |

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|---|--------------------------------|
| Connections | |
| Arrangement of electrical connectors / for main current circuit | front side |
| Type of electrical connection / for main current circuit | without connection accessoires |

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| Mechanical Design | |
| Height | 185.5 mm |
| Width | 104.5 mm |
| Depth | 106.5 mm |
| Mounting type | fixed mounting |

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| Environmental conditions | |
| Ambient temperature | |
| <ul style="list-style-type: none"> during operation / minimum during operation / maximum during storage / minimum during storage / maximum | -25 °C 70 °C -40 °C 80 °C |

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| Certificates | |
| Certificate of suitability | UL very high switching capacity (L), non-interchangeable |
| Equipment marking | |
| <ul style="list-style-type: none"> acc. to DIN EN 61346-2 | Q |

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|---------------------------------|------------|----------------------------------|
| General Product Approval | EMC | Declaration of Conformity |
|---------------------------------|------------|----------------------------------|



[Miscellaneous](#)



| | | |
|--------------------------|--------------------------|--------------|
| Test Certificates | Shipping Approval | other |
|--------------------------|--------------------------|--------------|

[Special Test Certificate](#)



[Miscellaneous](#)

[Environmental Confirmations](#)

[Confirmation](#)

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=3VL3525-3VH30-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL3525-3VH30-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL3525-3VH30-0AA0

CAX-Online-Generator

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

Tender specifications

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