









230 ff 1+1

204 121

230 V ac 1+1 (L-N + N-PE)

335 V ac



13/40 230 ff 1+1



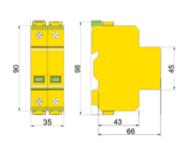
Model L 13/40 ...

Nominal ac system voltage

Modes of protection (number of poles)
Max Continuous Operating Voltage (L-N)

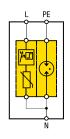
CODE





Un

Uc



L 13/40 230 ff 1+1 is a ready to install assembly of a voltage limiting and a voltage switching SPD providing two modes of protection, typically installed in single-phase 230 V TT-systems where connection type CT2 (1+1) is required according to HD 60364-5-534, e.g. in the Main Distribution Board (MDB), with the following features and benefits:

- Impulse test classification: Test class I and II according to IEC 61643-11 Ed. 1 (2011-03) and Type 1 and 2 according to EN 61643-11 (2012-10);
- Backup protection is not required with an upstream CB ≤ 160 A or up to an Isccr ≤ 5 kA rms;
- Three colour Status Indicator with progressive indication of remaining performance.

Max Continuous Operating Voltage (N-PE) Uc 255 V ac Test Class according to IEC 61643-11 Ed.1 (2011-03) I and II Type according to EN 61643-11 (2012-10) T1 and T2 Impulse discharge current (10/350 µs) (L-N) 13 kA 52 kA Impulse discharge current (10/350 µs) (N-PE) 6.5 As Q Charge (L-N) Charge (N-PE) Q 26 As Nominal discharge current (8/20 µs) (L-N) ln 35 kA Nominal discharge current (8/20 µs) (N-PE) 52 kA Max. discharge current (8/20 µs) (L-N) and (N-PE) lmax 70 kA Voltage protection level (L-N, L-PE) at a discharge current of: 1 kA Up $\leq 0.80 \text{ kV}$ ≤ 1,50 kV ≤ 1,50 kV 5 kA \bigcup_{D} ≤ 0,93 kV 13 kA Up $\leq 1,15 \text{ kV}$ $\leq 1,50 \text{ kV}$ 20 kA U_{p} $\leq 1,25 \text{ kV}$ $\leq 1,50 \text{ kV}$ 35 kA \bigcup_{n} $\leq 1,50 \text{ kV}$ $\leq 1,50 \text{ kV}$ Voltage protection level (N-PE) U_p $\leq 1,50 \text{ kV}$ Response time (L-N / N-PE) ţa $\leq 25 \text{ ns} / \leq 100 \text{ ns}$ OCFM (Open Circuit Failure Mode) End of Life (L-N) Behaviour in case of Temporary OverVoltage (TOV): L-N UT 440 V / 120 min, withstand (W) N-PE 1200 V / 200 ms, withstand (W) Short Circuit Current rating without backup protection (internal disconnector) sccr 5 kA rms Short Circuit Current rating with max. backup protection fuse 100 kA rms sccr Max. back-up protection with up-stream CB with a max. let-through energy of 160 A (max. 4,50 x 105 A2s) (max. prospective short circuit current depends on the CB breaking capability)

lfi

PD / IP

Model L 13/40 ... with remote signal contact

Follow current interrupt rating (L-N)

Case material / Flammability grade

Pollution degree / Degree of protection

Terminal - Conductor size

Certifications / Quality Mark

Approximate weight

Dimensions: width

Mounting

GTIN (EAN)

Follow current interrupt rating (N-PE)

Operating temperature range / Humidity

Max. back-up protection with FUSE at prospective short circuit currents of

Status indicator (indication of disconnector operation) / N-PE (no disconnector)

230 t ff 1+1

160/125 A gG* (> 5 ÷ 100 kA rms)

NEC No Follow Current®

100 A rms

4-35 mm² flexible / 4-50 mm² semi rigid indoor, 35 x 7,5 mm top hat DIN rail IEC/EN 60715

BMC / V-0 in accordance with UL 94 3 / 20 (built-in)

280 g

35 mm (2 modules)

CB, STC issued by OVE / KEMA-KEUR 8054890320672

3 colours with progressive performance indication / 2 colours for N-PE -40 ... +80 °C (extended) / 5% ... 95%

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|---|---|
| CODE | 214 121 |
| Remote signal contact | potential-free changeover contact |
| Terminal - conductor size for remote signal contact | max. 1,5 mm² flexible |
| Switching capacity remote signal contact | ac: 250 V / 0,5 A - dc: 125 V / 0,2 A; 75 V / 0,5 A |
| GTIN (EAN) | 8054890321297 |