

K-No.: 24879

Powerline transformer

Date: 11.06.2007

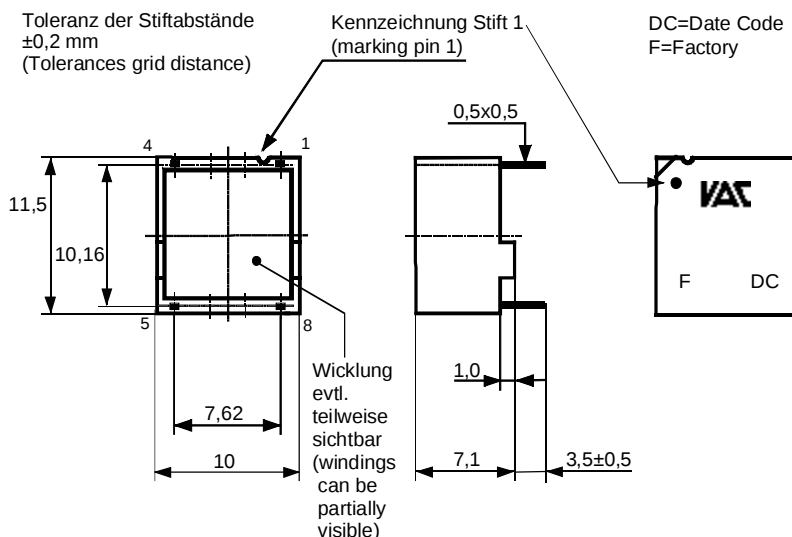
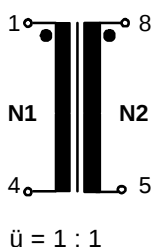
Customer Standard Type

Customers part No.:

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Mechanical outline (mm): (General Tolerances DIN ISO 2768-c)

Connections:


Schematic diagram:
Operational data/characteristic data (nominal values):


$$R_{Cu1} \leq 200 \text{ m}\Omega^*$$

$$R_{Cu2} \leq 300 \text{ m}\Omega^*$$

$$L_{L1} \leq 0.3 \text{ }\mu\text{H}^* \quad (\text{N}_2 \text{ short circuited})$$

$$C_K \leq 25 \text{ pF}^* \quad (\text{N}_1 \text{ to N}_2)$$

Operating temperature: -40 °C ... +125 °C

Storage temperature: -40 °C ... +120 °C

Inspection: (V: 100%-Test; AQL...: DIN ISO 2859-Teil1)

- 1) (V) M3014: $U_{p,eff} = 4.0 \text{ kV}$, 2 s, N1 to N2
- 2) (AQL 0,25) $L_1 = 1,4 \text{ mH} \pm 30 \%$, $f = 10 \text{ kHz}$, $U_{AC,eff} = 100 \text{ mV}$
- 3) (V) Polarity, Turns ratio: Tolerance $\pm 2 \%$
- 4) M3029: Solderability test acc. 1.1
- 5) (AQL 1/S4) M3200: Mechanical test

See page 2

Applicable documents:

Constructed, manufactured and tested in accordance to EN 60950 (IEC 950) and agrees with the standards

Parameters: Reinforced insulation: N1 → N2

Working voltage: 400 V r.m.s.

Pollution degree: 2

Insulation category: 3

Material group: 2

Housing material, casting resin and wire UL – listed

Date	Name	Index	Change
11.06.07	Gr.	82	Inspection point 1) changed to 4kV, working voltage 400 V, Insulation category 3. Type test inserted. ÄA-249
17.04.07	Gr.	81	Mechanical outline: write error, width changed from 13,9 into 11,5. Insignificant.
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		released: Gr.	

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Typprüfung:

Type test

1) Stoßspannungsprüfung in Anlehnung an M3064

HV transient test according to M3064

N1 gegen/to N2

Einstellwerte: 10 μ s / 700 μ s-Kurvenform (waveform)

Settings $U_{p,max} = 10$ kV

$R_i = 40 \Omega$

10 Impulse im Abstand t = 10 Sekunden mit wechselnder Polarität

10 pulses in a cycle of t = 10 seconds with changing polarity

2) M3014: $U_{p,eff} = 4.0$ kV, 60 s, N₁ to N₂

Measurements after temperature balance of the test samples at room temperature

* preliminary

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check

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