

K-No.: 24741

Powerline transformer

Date: 22.07.2014

Customer: Standard Type

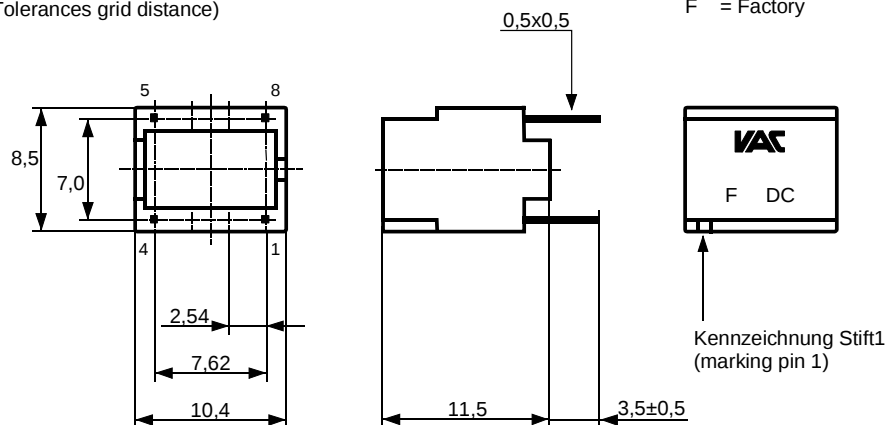
Customers part No.:

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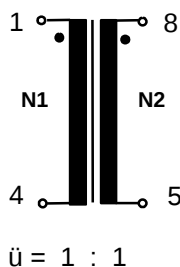
Mechanical outline (mm): (General Tolerances DIN ISO 2768-c)

Connections:

Toleranz der Stiftabstände $\pm 0,2\text{mm}$
(Tolerances grid distance)

DC = Date Code
F = Factory

Beschriftung:
marking

VAC DC
4085X004
F

Schematic diagram:

Operational data/characteristic data (nominal values):
 $f = 10\text{ kHz} \dots 1\text{ MHz}$
 $I_{\text{RMS}} < 30\text{ mA (50/60Hz)}$
 $R_{\text{Cu1}} \leq 200\text{ m}\Omega$
 $R_{\text{Cu2}} \leq 200\text{ m}\Omega$
 $L_{\text{S1-2}} \leq 0,80\text{ }\mu\text{H}^*$
 $C_{\text{K1-2}} \leq 25\text{ pF}^*$

Operating temperature: $-40\text{ }^\circ\text{C} \dots +125\text{ }^\circ\text{C}$

Storage temperature: $-40\text{ }^\circ\text{C} \dots +120\text{ }^\circ\text{C}$

* preliminary

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

- | | | | | |
|----|------------|----------|---|--|
| 1) | (V) | M3014: | $U_{\text{p,eff}} = 4.0\text{ kV}, 2\text{ s},$ | N_1 vs N_2 |
| 2) | (AQL 0,25) | M3011/1: | $L_1 = 1,4\text{ mH} + / - 30\text{ } \%,$ | $f = 10\text{ kHz}, U_{\text{AC,eff}} = 100\text{ mV}$ |
| 3) | (V) | M3011/6: | Polarity, Turns ratio: | Tolerance $\pm 2\text{ } \%$ |
| 4) | (Fix 05) | M3290: | solderability test acc. to chapter 1 | |
| 5) | (AQL 1/S4) | M3200 | Mechanical test | |

See page 2

Applicable documents:

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

Parameters:

Reinforced insulation: $N_1 \rightarrow N_2$

Working voltage: 300 V

Insulation category: 2

Pollution degree: 2

Material group: 2

Housing material, casting resin and wire UL - listed

Date	Name	Index	Change
22.07.14	Pf	83	Characteristic data: $I_{\text{DC}} < 30\text{ mA}$ changed to $I_{\text{RMS}} < 30\text{ mA (50/60Hz)}$. Lapidary change
21.01.13	Bs	83	LS changed acc to measured values (0,30 μH to 0,8 μH). CN-581
Editor: KB-E		Design: Bs	KB-PM: Pf. check
			released: HH

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Type test:

1) HV transient test according to M3064

N1 vs N2

Settings: 10 μ s / 700 μ s-waveform

 $U_{p,max} = 10 \text{ kV}$
 $R_i = 40 \Omega$

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

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

3) M3292: Resistance to soldering heat acc. to chapter 1

Measurements after temperature balance of the test samples at room temperature

Editor: KB-E

Design: Bs

KB-PM: Pf.
check

released: HH

Mouser Electronics

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