

K-No.: 24741

Powerline transformer
Date: 24.04.2015

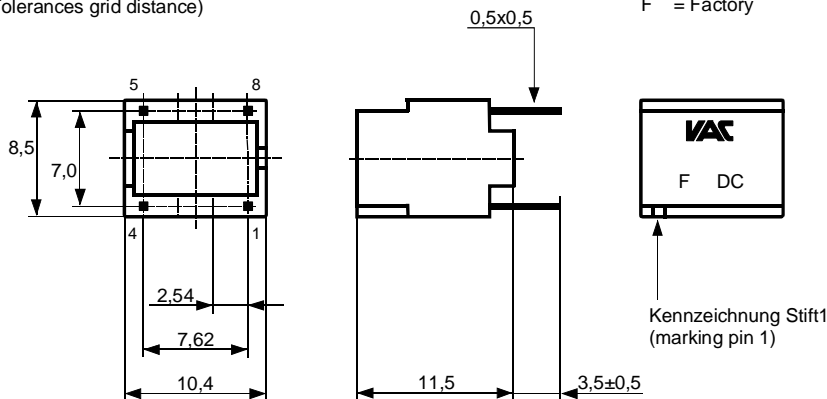
Customer: Standard Type

Customers part No.:
Page 1 of 2

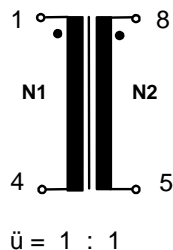
Mechanical outline (mm): (General Tolerances DIN ISO 2768-c)

Connections:

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

 DC = Date Code
 F = Factory

Beschriftung:
 marking

 DC
 4085X004
 F

Schematic diagram:

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

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

 Storage temperature: $-40 \text{ }^\circ\text{C} \dots +85 \text{ }^\circ\text{C}$

* preliminary

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

- | | | | | |
|----|------------|----------|--|---|
| 1) | (V) | M3014: | $U_{p,eff} = 4.0 \text{ kV}, 2 \text{ s},$ | $N_1 \text{ vs } N_2$ |
| 2) | (AQL 0,25) | M3011/1: | $L_1 = 1,4 \text{ mH} + / - 30 \%,$ | $f = 10 \text{ kHz}, U_{AC,eff} = 100 \text{ mV}$ |
| 3) | (V) | M3011/6: | Polarity, Turns ratio: | Tolerance $\pm 2 \%$ |
| 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
24.04.15	Bs	83	Typo: storage temperature changed from $+120^\circ\text{C} \rightarrow +85^\circ\text{C}$. lapidary change
22.07.14	Pf	83	Characteristic data: $I_{DC} < 30 \text{ mA}$ changed to $I_{RMS} < 30 \text{ mA (50/60Hz)}$. Lapidary change

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Page 2 of 2

Type test:

- 1) HV transient test according to M3064
N1 vs N2
Settings: 10 μ s / 700 μ s-waveform
 $U_{p,max} = 10$ kV
 $R_i = 40$ Ω
10 pulses in a cycle of t = 10 seconds with changing polarity

- 2) M3014: $U_{p,eff} = 4.0$ 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

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