

K-No.: 24741

Powerline transformer

Date: 24.04.2015

Customer: Standard Type

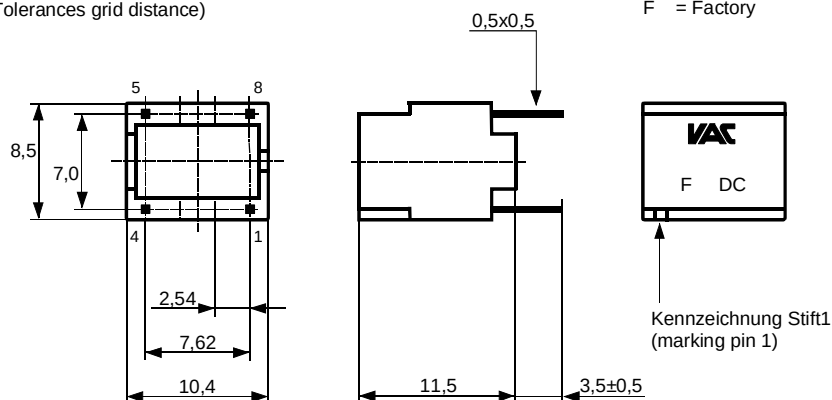
Customers part No.:

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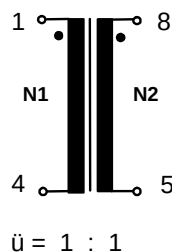
Mechanical outline (mm): (General Tolerances DIN ISO 2768-c)

Connections:

Toleranz der Stiftabstände ±0,2mm
(Tolerances grid distance)

DC = Date Code
F = Factory

Beschriftung:
marking

 DC
4085X004
F

Schematic diagram:

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

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 s, N1 vs N2
- 2) (AQL 0,25) M3011/1: $L_1 = 1,4 \text{ mH} \pm 30 \%$, $f = 10 \text{ kHz}$, $U_{AC,eff} = 100 \text{ mV}$
- 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: N1 $\rightarrow$ N2

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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check

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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

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