

K-No.: 24741

**Powerline transformer**

Date: 24.04.2015

Customer: Standard Type

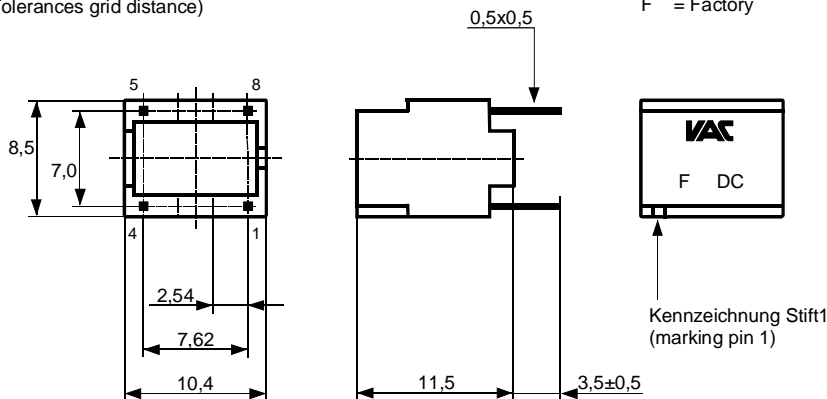
Customers part No.:

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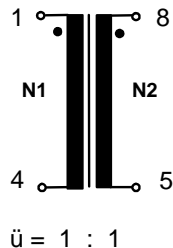
**Mechanical outline (mm):** (General Tolerances DIN ISO 2768-c)

Connections:

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

 DC = Date Code  
F = Factory

 Beschriftung:  
marking

VAC 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:   | $U_{p,eff} = 4.0 \text{ kV}, 2 \text{ s},$ | N1 vs N2  |
| 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: N1 → 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°C → +85°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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Design: Bs

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Type test:

- 1) HV transient test according to M3064  
 N1 vs N2  
 Settings: 10  $\mu$ s / 700  $\mu$ s-waveform  
 $U_{p,max} = 10$  kV  
 $R_i = 40$   $\Omega$   
 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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