

K-No.: 24964

Powerline transformer

Date: 10.05.2010

Customer : Standard Type

Customers part No.:

Page 1 of 2

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

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

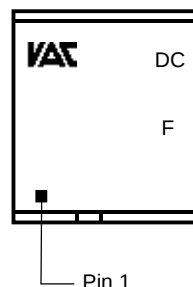
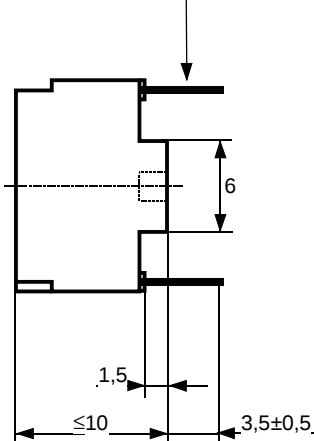
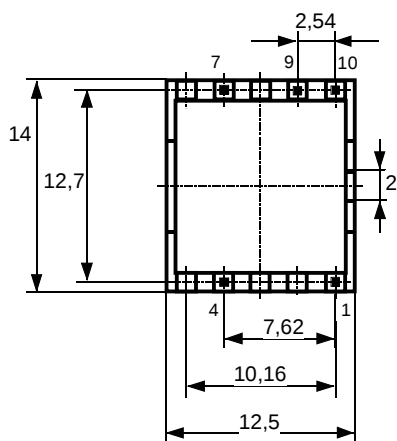
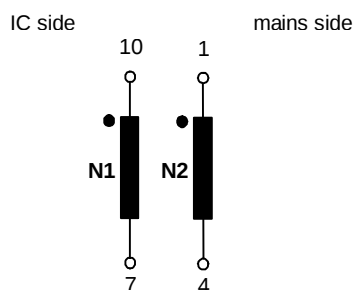
Pin 0,66x0,45 alternativ 0,5 (0,52) x 0,5(0,52)
Pin 0,66x0,45 alternative 0,5 (0,52) x 0,5(0,52)

DC = Date Code
F = Factory

Connections:
No. 1, 4, 7, 10

Unused pin (s):
No. 9

Marking:

VAC DC
4021X139
F

Schematic diagram:

 $\ddot{u} = 1,67 : 1$
Operational data/characteristic data (nominal values):
 $R_{Cu1(IC\ side)} = 300\ m\Omega \pm 15\%$
 $R_{Cu2(mains)} = 200\ m\Omega \pm 15\%$
 $L_{S1} = 13\ \mu H^* \pm 20\%$ (N2 short circuited)

 $L_{S2} = 5\ \mu H^* \pm 20\%$ (N1 short circuited)

 $C_K \leq 5\ pF^*$
 $C_W \leq 12\ pF^*$

Operating temperature: $-40\ ^\circ C \dots +120\ ^\circ C$

Storage temperature: $-40\ ^\circ C \dots +120\ ^\circ C$
Inspection: (V: 100%-Test; AQL...: DIN ISO 2859-Teil1)

- 1) (V) M3014: $U_{p,rms} = 6.0\ kV, 2\ s,$ N_1 to N_2
- 2) (AQL 0,25) M3011/1: $L_1 = 500\ \mu H \pm 30\ \%,$ $f = 10\ kHz,$ $U_{AC,rms} = 100\ mV$
- 3) (AQL 0,25) M3011/1: $L_{S1} = 13\ \mu H^* \pm 20\ \%,$ $f = 100\ kHz,$ $U_{AC,rms} = 100\ mV$ (N2 short circuited)
- 4) (V) M3011/6: Polarity, Turns ratio: Tolerance $\pm 2\ \%$

Measurements after temperature balance of the test samples at room temperature

* preliminary

Applicable documents

see page 2

Date	Name	Index	Change
10.05.10	Bs	82	Characteristic data: R_{Cu} -values, tolerances added to $= 200\ m\Omega \pm 15\%$ and $= 300 \pm 15\%$. ÄA-840
09.02.09	Bs	82	Inspection point2) L-test: upper value limited. ÄA-575. L_{S1} -test = inspection 3)
Editor: KB-E		Design: BS	KB-PM B: Ert. check
			released: RK

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Type test:

- 1) High voltage test according to M3014

$$U_{DC} = 6 \text{ kV}, \quad 1 \text{ min}, \quad N1 \text{ to } N2$$

$$U_{AC,rms} = 4 \text{ kV}, \quad 1 \text{ min}, \quad N1 \text{ to } N2$$

Applicable documents:

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

Parameters: Reinforced insulation: N1 $\rightarrow$ N2

Working voltage: 250 V r.m.s.

Insulation category: 3

Pollution degree: 2

Material group: 2

Housing material, casting resin and wire UL - listed

Editor: KB-E

Design: Bs

KB-PM B: Ert.
check

released: RK

Mouser Electronics

Authorized Distributor

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