

K-Nr.: 25999
 K-no.:

Powerline Transformer

 Datum: 11.08.2015
 Date:

 Kunde:
 Customer

 Kd. Sach Nr.:
 Customers part no.:

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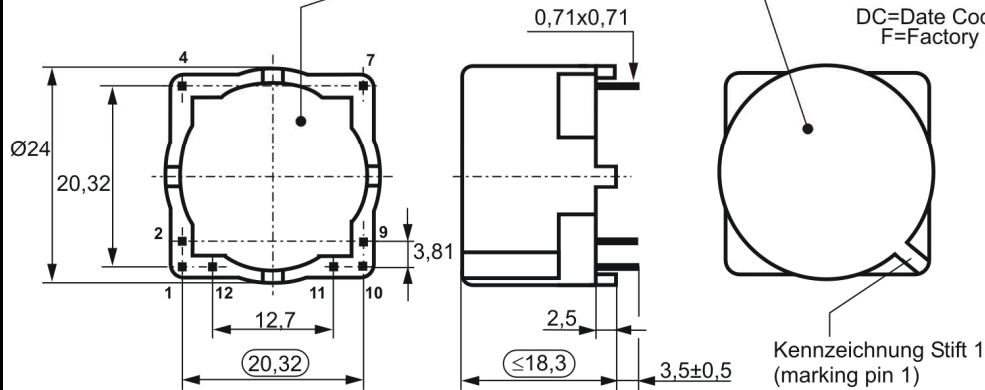
Mechanicaloutline General tolerances

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

 Wicklung teilweise sichtbar
 (windings partially visible)

 Beschriftung
 (marking)

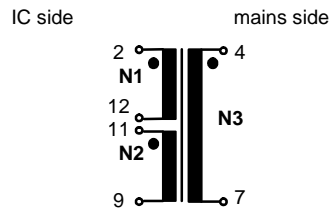
 Prüfmaß
 (test dimension)

 DC=Date Code
 F=Factory

Connections:

 Not connected pins
 1, 10

 Beschriftung
 (marking):

 4614X010
 F DC

Schematicdiagram


Turns ratio = 1 : 1 : 2

Operational data/characteristic data (nominal values):
 $f = 30 \text{ kHz} \dots 1 \text{ MHz}$
 $I_{RMS} < 250 \text{ mA}$ (50/60 Hz) (related to N3)

 $R_{Cu1} = R_{Cu2} = 12 \text{ m}\Omega \pm 15\%$
 $R_{Cu3} = 23 \text{ m}\Omega \pm 15\%$
 $L_{1+2} = 440 \mu\text{H} \pm 40\%$, $f = 10 \text{ kHz}$
 $L_{S1+2} \leq 0,9 \mu\text{H}$, $f = 100 \text{ kHz}$, (N3 short circuited)

 $C_K \leq 60 \text{ pF}$, $f = 10 \text{ kHz}$

Maximum operating temperature: +120 °C

Ambient temperature: -40 °C ... +115 °C

Storage temperature: -40 °C ... +85 °C

Inspection: (V: 100%-Test; AQL...: DIN ISO 2859-Part1; SC = significant characteristic)

See page 2

Weitere Vorschriften:

Applicable documents

Datum	Name	Index	Änderung
		81	

 Hrsg.: KB-E
 editor

 Bearb.: BS.
 designer

 KB-PM: Pf.
 check

 freig.: HS
 released

K-Nr.: 25999 K-no.:	Powerline Transformer	Datum: 11.08.2015 Date:
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Inspection: (V: 100%-Test; AQL...: DIN ISO 2859-Part1; SC = significant characteristic)

- 1) (V) M3014: $U_{p,r.m.s} = 5,1 \text{ kV}, 2 \text{ s},$ $N_{1+2} \text{ to } N_3$
 $U_{p,r.m.s} = 0,5 \text{ kV}, 2 \text{ s},$ $N_1 \text{ to } N_2$
- 2) (V) M3011/1: $L_3 = 440\mu\text{H} + / - 40 \%$, $f = 10 \text{ kHz},$ $U_{AC,r.m.s} = 100 \text{ mV}$
- 3) (AQL 0,25) M3011/2: $L_{S3} = \leq 0,9 \mu\text{H},$ $f = 100 \text{ kHz},$ $U_{AC,r.m.s} = 100 \text{ mV}$ (N1+2 short circuited)
- 4) (V) M3011/6: Polarity, Turns ratio: Tolerance $\pm 2 \%$ (SC)
- 5) (Fix05) M3290: Solderability test acc. to chapter 1
- 6) (AQL 1/S4) M3200: Mechanical test

Type test:

- 1) High voltage test according to M3014
 $U_{p,r.m.s.} = 5,7 \text{ kV},$ 1 min, $N_{1+2} \text{ to } N_3$
- 2) (Fix05) M3292: Resistance to soldering heat acc. to chapter 1

Measurements after temperature balance of the test samples at room temperature

Applicable documents:

Designed, manufactured and tested in accordance to DIN EN 60950-1 and complies with the standards.

Parameters: Reinforced insulation: N1+N2 to N3	and / or	Reinforced insulation: N1+N2 to N3
Working voltage: 450 V r.m.s.		Working voltage: 300 V r.m.s.
Overvoltage category: 3		Overvoltage category: 4
Pollution degree: 2		Pollution degree: 2
Insulation material group: 3		Insulation material group: 3

Housing material, casting resin and wire UL – listed

Hrsg.: KB-E editor	Bearb: BS. designer		KB-PM: Pf. check		freig.: HS released
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