

K-Nr.: 25696
 K-no.:

Trigger transformer

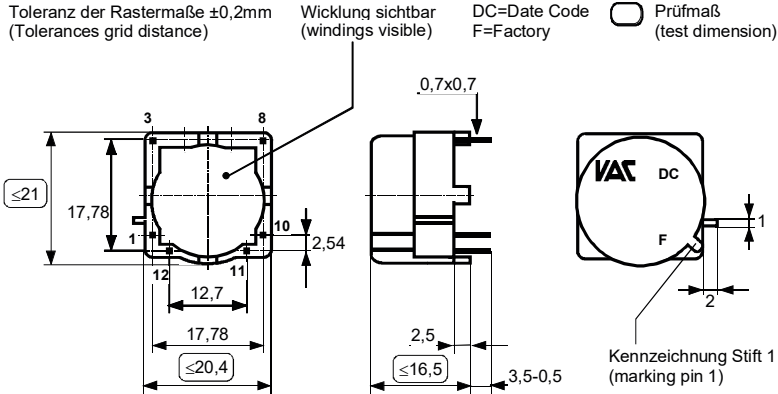
 Datum: 13.10.2022
 Date:

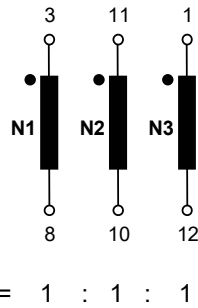
 Kunde:
 Customer

 Kd. Sach Nr.:
 Customers part no.:

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 Maßbild (mm): Freimaßtoleranz DIN ISO 2768-c
 Mechanical outline General tolerances

 Anschlüsse:
 Connections:

 Beschriftung:
 marking

 Anschlußschema:
 Schematic diagram


Betriebsdaten/Charakteristische Daten (Richtwerte):

Operational data/characteristic data (nominal values):

 $U_E = 15 \text{ V (N1)}$ $U_2 = 15 \text{ V,}$ $U_3 = 15 \text{ V}$
 $\int U dt \geq 440 \mu\text{Vs (unipolar)}$ $\tau \leq 50\%$ $P_u = 7,5 \text{ W}$ $f = 20 \text{ kHz}$

 Inductance $L_1 = 7,2 \text{ mH}$ ($f = 10 \text{ kHz}$)
 Leakage inductance $L_{S1} = 0,65 \mu\text{H}$ (N_2 short circuited, $f=100 \text{ kHz}$)
 $L_{S1} = 0,65 \mu\text{H}$ (N_3 short circuited, $f=100 \text{ kHz}$)

 Coupling capacitance $C_{k1-2} = 22,3 \text{ pF}$ ($f=1 \text{ kHz, } U_{AC,rms} = 100 \text{ mV}$)
 $C_{k1-3} = 22,3 \text{ pF}$ ($f=1 \text{ kHz, } U_{AC,rms} = 100 \text{ mV}$)

 Insulation voltage N vs N: Reinforced: $U_{is,DC} = 1.2 \text{ kV}$

 Umgebungstemperatur/ambient temperature: $-40^\circ\text{C} \dots +85^\circ\text{C}$
 Lagertemperatur/storage temperature: $-40^\circ\text{C} \dots +85^\circ\text{C}$

Prüfung Inspection:

(V: 100%-Test; AQL...: DIN ISO 2859-Teil1; SC = significant characteristic)

- | | | | | |
|---------------|---------|---|---|--|
| 1) (V) | M3014: | $U_{p,eff} = 6,2 \text{ kV}$ | 2 s | N vs N |
| 2) (AQL 1/S4) | M3011/4 | settings (N1):
test value: | $U_E = 22,68 \text{ V}$
$I_p \leq 0.131 \text{ A}$ | $t_d = 20 \mu\text{s}$ $f_p = 1000 \text{ Hz}$ |
| 3) (V) | M3011/6 | polarity / turns ratio | tolerance $\pm 2 \%$ | (SC) |
| 4) (AQL 1/S4) | M3011/5 | $R_{Cu1} = 460 \text{ m}\Omega \pm 15 \%$ | $R_{Cu2} = 460 \text{ m}\Omega \pm 15 \%$ | $R_{Cu3} = 460 \text{ m}\Omega \pm 15 \%$ |
| 5) (Fix 05) | M3290 | Solderability test acc. to chapter 1 | | |
| 6) (AQL 1/S4) | M3200 | Mechanical test | | |

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Weitere Vorschriften:

Applicable documents:

Datum	Name	Index	Änderung
13.10.2022	Dz.	82	Implementation of an alternative wire supplier. CN-22-075.
28.01.13	Leh.	81	Typo, $\int U dt \leq 440 \mu\text{Vs (unipolar)}$ changed to $\int U dt \geq 440 \mu\text{Vs (unipolar)}$. Lapidary change

 Hrsg.: R&D-PD NPI D
 editor

 Bearb: Sc.
 designer

 MC-PM: Sn.
 check

 freig.: Pr.
 released

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Type test

- 1) HV transient test according to M3064
 Settings N vs N
 Waveform 1,2 μ s / 50 μ s
 $U_{P,max} = 9,8$ kV
 3 pulses for each polarity in a cycle of $t \geq 1$ second with changing polarity

- 2) Dielectric withstand voltage test according to M3014
 $U_{p,eff} = 6,2$ kV, 15 s, N vs N

Messungen nach Temperaturangleich der Prüflinge an Raumtemperatur
 Measurements after temperature balance of the test samples at room temperature

Hrsg.: R&D-PD NPI D editor	Bearb: Sc. designer	MC-PM: Sn. check	freig.: Pr. released
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