

K-No.: 21131
 K-Nr.:

Current Transformer / Wechselstromwandler

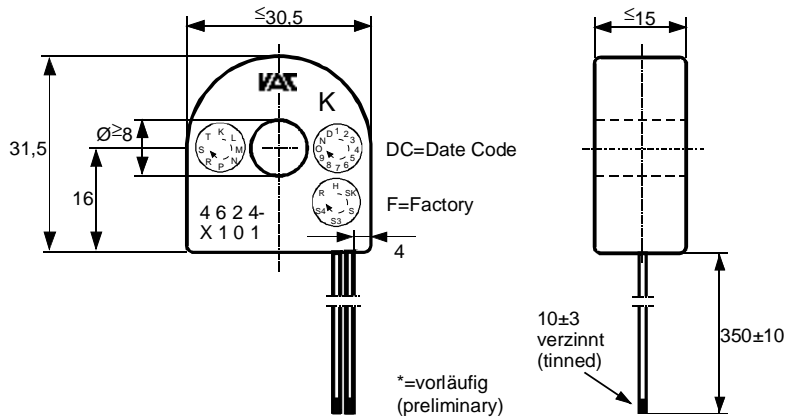
 Date: 13.01.2011
 Datum

 Customer Standard Type / Typenelement
 Kunde

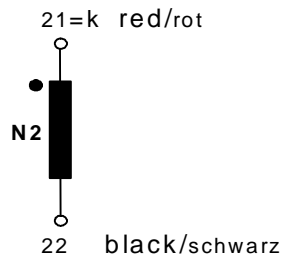
 Customers part no.:
 Kd. Sach Nr.:

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

 Connections
 Anschlüsse

 21,22
 Litze 2 x 0,14 mm²
Schematic diagram

Anschlussschema:


 $\ddot{u} = (1) : 2500$
Operational data/characteristic data (nominal values):

Betriebsdaten/Charakteristische Daten (Richtwerte):

 $R_{Cu2} = 55 \Omega$
 $I_{max, rms} = 60 A$ (acc. to IEC 61036)

 $I_{peak, Op} = 60 A$ (acc. to IEC 61036)

 $f = 50 Hz$
 $R_B = 12,5 \Omega$

ambient temperature / Umgebungstemperatur: -40°C ..+70°C

storage temperature / Lagertemperatur: -40°C...+85°C

PIinspection: (V: 100%-Test; AQL...: DIN ISO 2859-Teil1)

Prüfung

- 1) (AQL 1/S4) M3014: $U_{p,eff} = 2,5 kV$, 2 s, N_2 to/gegen currentwinding ($\varnothing 7,5mm$)/ Durchsteckdorn
- 2) (AQL 0,25) M3011/1 $L_2 = 3,0 H \pm 15\%$, $f = 50 Hz$, $U_{AC,eff} = 100 mV$
- 3) (V) M3011/6 **Special measuring (Current transformer measuring instrument N4):**
 Sonderprüfung (Stromtrafoprüfgerät N4):
 Polarity / Turns ratio: Tolerance (+/- 25 turns)
 Polarität / Übersetzungsverhältnis: Toleranz $\pm 1\%$ ($\pm 25 Wdg.$)
- 4) (AQL 1/S4) M3200: **Mechanical test**
 Mechanische Prüfung

 Type test: M3014: $U_{p,eff} = 2,5 kV$, 1 min, N_2 to/gegen currentwinding ($\varnothing 7,5mm$)/ Durchsteckdorn
 Typprüfung:

Measurements after temperature balance of the test samples at room temperature

Messungen nach Temperaturangleich der Prüflinge an Raumtemperatur

Applicable documents:

Weitere Vorschriften:

| Date | Name | issue | amendment |
|----------|------|-------|--|
| 13.01.11 | Ert. | 81 | Remark 4 on Page A2 added. Lapidary change. |
| 27.08.07 | HL. | 81 | Page 2: Remark added. Insignificant. Inspection 1) added. ÄA-310 |

 Hrsg.: KB-E
 editor

 Bearb: HL
 designer

 KB-PM: Pf.
 check

 freig.: Pe.
 released

| | | | |
|------------------------|---|--------------------------------------|--------------------------|
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Remark:

Bemerkung

- 1) This product is protected by one or more patents, including /
Dieses Produkt ist durch eines oder mehrere Patente geschützt, u.a
US 6663815, EP 1105893
- 2) The resistance to alcohols and similar detergents of the component is restricted.
When performing washing procedures own tests are recommended.
Das Bauelement besitzt eine eingeschränkte Beständigkeit gegen Alkohole und ähnliche Reinigungsmittel.
Bei Waschprozessen empfehlen wir die Durchführung von eigenen Tests.
- 3) The customer has to check and to ensure the mechanical properties of the component and the behaviour of the encapsulation, especially at the inner diameter by appropriate temperature tests.
Die mechanischen Eigenschaften des Bauelements und das Verhalten der Umhüllmasse, speziell am Innendurchmesser, sind vom Kunden durch entsprechende Temperaturtests zu überprüfen und sicherzustellen.
- 4) This product has been designed for use in electricity meters that have to meet the requirements of IEC 62053-21 and EN 50470-3. By using this product, the following supplementary conditions ("realistic load conditions") can easily be met:

a) Supplementary condition to IEC 62053-21 Table 8

| Influence quantity | Value of current for direct connected meters | Power Factor | Limits of variation in percentage error for meters of class | |
|---|--|--------------------|---|-----|
| | | | 1 | 2 |
| DC and even harmonics in the a.c. current circuit | $\frac{I_{\max}}{\sqrt{2}}$ | 1 0.5 inductive | 3.0 | 6.0 |

b) Supplementary condition to EN50470-3 Table 9

| Disturbance | Value of current for direct connected meters | Power Factor | Critical change value for meters of class index, % | | |
|---|--|--------------------|--|-------|-------|
| | | | A | B | C |
| DC and even harmonics in the a.c. current circuit | $\frac{I_{\max}}{\sqrt{2}}$ | 1 0.5 inductive | ± 6.0 | ± 3.0 | ± 1.5 |

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