
**Netz-Thyristor**  
**Phase Control Thyristor**
**T3710N**
**Elektrische Eigenschaften / Electrical properties**  
 Höchstzulässige Werte / Maximum rated values

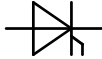
|                                                                                                                    |                                                                                                                 |                                  |                                                                      |
|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------|
| Periodische Vorwärts- und Rückwärts-Spitzensperrspannung<br>repetitive peak forward off-state and reverse voltages | $T_{vj} = -40^{\circ}\text{C} \dots T_{vj \max}$                                                                | $V_{\text{DRM}}, V_{\text{RRM}}$ | 200 V<br>400 V<br>600 V 1)                                           |
| Vorwärts-Stossspitzensperrspannung<br>non-repetitive peak forward off-state voltage                                | $T_{vj} = -40^{\circ}\text{C} \dots T_{vj \max}$                                                                | $V_{\text{DSM}}$                 | 200 V<br>400 V<br>600 V                                              |
| Rückwärts-Stossspitzensperrspannung<br>non-repetitive peak reverse voltage                                         | $T_{vj} = +25^{\circ}\text{C} \dots T_{vj \max}$                                                                | $V_{\text{RSM}}$                 | 250 V<br>450 V<br>650 V                                              |
| Durchlassstrom-Grenzeffektivwert<br>maximum RMS on-state current                                                   |                                                                                                                 | $I_{\text{TRMSM}}$               | 7000 A                                                               |
| Dauergrenzstrom<br>average on-state current                                                                        | $T_C = 85^{\circ}\text{C}$                                                                                      | $I_{\text{TAVM}}$                | 3710 A                                                               |
| Dauergrenzstrom<br>average on-state current                                                                        | $T_C = 55^{\circ}\text{C}, \theta = 180^{\circ}\sin, t_p = 10 \text{ ms}$                                       | $I_{\text{TAVM}}$                | 5060 A                                                               |
| Durchlaßstrom-Effektivwert<br>RMS on-state current                                                                 |                                                                                                                 | $I_{\text{TRMS}}$                | 7950 A                                                               |
| Stossstrom-Grenzwert<br>surge current                                                                              | $T_{vj} = 25^{\circ}\text{C}, t_p = 10 \text{ ms}$<br>$T_{vj} = T_{vj \max}, t_p = 10 \text{ ms}$               | $I_{\text{TSM}}$                 | 70000 A<br>60000 A                                                   |
| Grenzlastintegral<br>$I^2t$ -value                                                                                 | $T_{vj} = 25^{\circ}\text{C}, t_p = 10 \text{ ms}$<br>$T_{vj} = T_{vj \max}, t_p = 10 \text{ ms}$               | $I^2t$                           | 24500 $10^3 \text{ A}^2\text{s}$<br>18000 $10^3 \text{ A}^2\text{s}$ |
| Kritische Stromsteilheit<br>critical rate of rise of on-state current                                              | DIN IEC 60747-6<br>$f = 50 \text{ Hz}, i_{\text{GM}} = 1 \text{ A}, di_{\text{G}}/dt = 1 \text{ A}/\mu\text{s}$ | $(di_{\text{T}}/dt)_{\text{cr}}$ | 200 A/ $\mu\text{s}$                                                 |
| Kritische Spannungssteilheit<br>critical rate of rise of off-state voltage                                         | $T_{vj} = T_{vj \max}, v_{\text{D}} = 0,67 V_{\text{DRM}}$<br>5.Kennbuchstabe / 5 <sup>th</sup> letter F        | $(dv_{\text{D}}/dt)_{\text{cr}}$ | 1000 V/ $\mu\text{s}$                                                |

## Charakteristische Werte / Characteristic values

|                                                                                                                                                          |                                                                                                                                                                                                      |                              |                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------|
| Durchlassspannung<br>on-state voltage                                                                                                                    | $T_{vj} = T_{vj \max}, i_{\text{T}} = 15 \text{ kA}$<br>$T_{vj} = T_{vj \max}, i_{\text{T}} = 4 \text{ kA}$                                                                                          | $v_{\text{T}}$               | max. 1,50 V<br>max. 0,96 V                        |
| Schleusenspannung<br>threshold voltage                                                                                                                   | $T_{vj} = T_{vj \max}$                                                                                                                                                                               | $V_{(\text{TO})}$            | 0,75 V                                            |
| Ersatzwiderstand<br>slope resistance                                                                                                                     | $T_{vj} = T_{vj \max}$                                                                                                                                                                               | $r_{\text{T}}$               | 0,048 m $\Omega$                                  |
| Durchlasskennlinie<br>on-state characteristic<br>$v_{\text{T}} = A + B \cdot i_{\text{T}} + C \cdot \ln(i_{\text{T}} + 1) + D \cdot \sqrt{i_{\text{T}}}$ | $T_{vj} = T_{vj \max}$                                                                                                                                                                               | A=<br>B=<br>C=<br>D=         | 2,835E-01<br>4,576E-05<br>6,526E-02<br>-7,919E-04 |
| Zündstrom<br>gate trigger current                                                                                                                        | $T_{vj} = 25^{\circ}\text{C}, v_{\text{D}} = 12 \text{ V}$                                                                                                                                           | $I_{\text{GT}}$              | max. 250 mA                                       |
| Zündspannung<br>gate trigger voltage                                                                                                                     | $T_{vj} = 25^{\circ}\text{C}, v_{\text{D}} = 12 \text{ V}$                                                                                                                                           | $V_{\text{GT}}$              | max. 1,5 V                                        |
| Nicht zündender Steuerstrom<br>gate non-trigger current                                                                                                  | $T_{vj} = T_{vj \max}, v_{\text{D}} = 12 \text{ V}$<br>$T_{vj} = T_{vj \max}, v_{\text{D}} = 0,5 V_{\text{DRM}}$                                                                                     | $I_{\text{GD}}$              | max. 10 mA<br>max. 5 mA                           |
| Nicht zündende Steuerspannung<br>gate non-trigger voltage                                                                                                | $T_{vj} = T_{vj \max}, v_{\text{D}} = 0,5 V_{\text{DRM}}$                                                                                                                                            | $V_{\text{GD}}$              | max. 0,2 V                                        |
| Haltestrom<br>holding current                                                                                                                            | $T_{vj} = 25^{\circ}\text{C}, v_{\text{D}} = 12 \text{ V}$                                                                                                                                           | $I_{\text{H}}$               | max. 300 mA                                       |
| Einraststrom<br>latching current                                                                                                                         | $T_{vj} = 25^{\circ}\text{C}, v_{\text{D}} = 12 \text{ V}, R_{\text{GK}} \geq 10 \Omega$<br>$i_{\text{GM}} = 1 \text{ A}, di_{\text{G}}/dt = 1 \text{ A}/\mu\text{s}, t_{\text{g}} = 20 \mu\text{s}$ | $I_{\text{L}}$               | max. 1200 mA                                      |
| Vorwärts- und Rückwärts-Sperrstrom<br>forward off-state and reverse current                                                                              | $T_{vj} = T_{vj \max}$<br>$v_{\text{D}} = V_{\text{DRM}}, v_{\text{R}} = V_{\text{RRM}}$                                                                                                             | $i_{\text{D}}, i_{\text{R}}$ | max. 200 mA                                       |
| Zündverzögerung<br>gate controlled delay time                                                                                                            | DIN IEC 60747-6<br>$T_{vj} = 25^{\circ}\text{C}, i_{\text{GM}} = 1 \text{ A}, di_{\text{G}}/dt = 1 \text{ A}/\mu\text{s}$                                                                            | $t_{\text{gd}}$              | max. 4 $\mu\text{s}$                              |

1) 600 V auf Anfrage / 600 V on request

|              |            |                      |            |
|--------------|------------|----------------------|------------|
| prepared by: | H.Sandmann | date of publication: | 2009-03-12 |
| approved by: | M.Leifeld  | revision:            | 2.0        |


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 Charakteristische Werte / Characteristic values

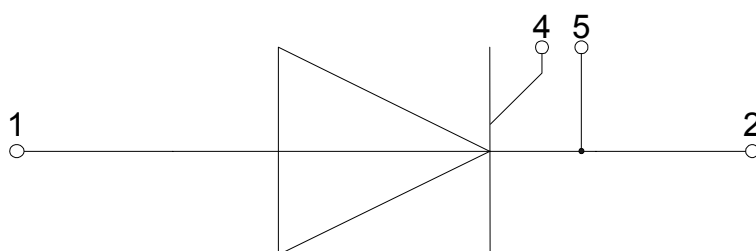
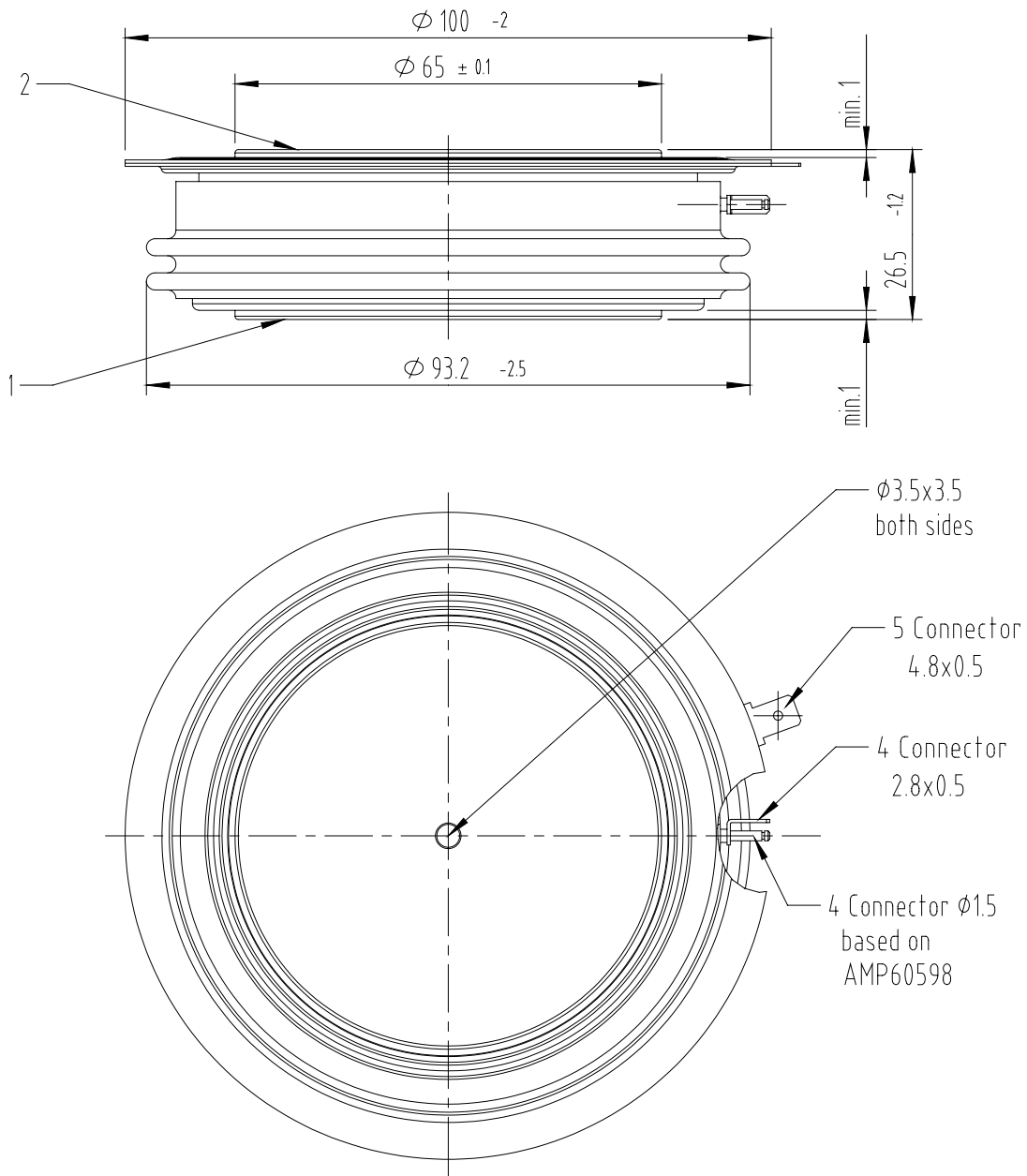
|                                                   |                                                                                                                                                                                          |       |          |         |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|---------|
| Freiwerdezeit<br>circuit commutated turn-off time | $T_{vj} = T_{vj\ max}, I_{TM} = I_{TAVM}$<br>$V_{RM} = 100\ V, V_{DM} = 0,67\ V_{DRM}$<br>$dv_D/dt = 20\ V/\mu s, -di_T/dt = 10\ A/\mu s$<br>4. Kennbuchstabe / 4 <sup>th</sup> letter O | $t_q$ | typ. 200 | $\mu s$ |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|---------|

**Thermische Eigenschaften / Thermal properties**

|                                                                        |                                                                                                                                                                                                                                                                  |               |                                                                                                                      |    |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------|----|
| Innerer Wärmewiderstand<br>thermal resistance, junction to case        | <u>Kühlfläche / cooling surface</u><br>beidseitig / two-sided, $\theta = 180^\circ \sin$<br>beidseitig / two-sided, DC<br>Anode / anode, $\theta = 180^\circ \sin$<br>Anode / anode, DC<br>Kathode / cathode, $\theta = 180^\circ \sin$<br>Kathode / cathode, DC | $R_{thJC}$    | max. 0,0125 °C/W<br>max. 0,0117 °C/W<br>max. 0,0232 °C/W<br>max. 0,0225 °C/W<br>max. 0,0250 °C/W<br>max. 0,0245 °C/W |    |
| Übergangs-Wärmewiderstand<br>thermal resistance, case to heatsink      | <u>Kühlfläche / cooling surface</u><br>beidseitig / two-sides<br>einseitig / single-sides                                                                                                                                                                        | $R_{thCH}$    | max. 0,003 °C/W<br>max. 0,006 °C/W                                                                                   |    |
| Höchstzulässige Sperrschichttemperatur<br>maximum junction temperature |                                                                                                                                                                                                                                                                  | $T_{vj\ max}$ | 140                                                                                                                  | °C |
| Betriebstemperatur<br>operating temperature                            |                                                                                                                                                                                                                                                                  | $T_{c\ op}$   | -40...+140                                                                                                           | °C |
| Lagertemperatur<br>storage temperature                                 |                                                                                                                                                                                                                                                                  | $T_{stg}$     | -40...+140                                                                                                           | °C |

**Mechanische Eigenschaften / Mechanical properties**

|                                                                |                                                                      |   |                                          |                  |
|----------------------------------------------------------------|----------------------------------------------------------------------|---|------------------------------------------|------------------|
| Gehäuse, siehe Anlage<br>case, see annex                       |                                                                      |   | Seite 3<br>page 3                        |                  |
| Si-Element mit Druckkontakt<br>Si-pellet with pressure contact |                                                                      |   |                                          |                  |
| Anpresskraft<br>clamping force                                 |                                                                      | F | 30...65                                  | kN               |
| Steueranschlüsse<br>control terminals                          | Gate (flat)<br>Gate (round, based on AMP 60598)<br>Kathode / cathode |   | A 2,8x0,5 mm<br>Ø 1,5 mm<br>A 4,8x0,5 mm |                  |
| Gewicht<br>weight                                              |                                                                      | G | typ. 900                                 | g                |
| Kriechstrecke<br>creepage distance                             |                                                                      |   | 25                                       | mm               |
| Schwingfestigkeit<br>vibration resistance                      | f = 50 Hz                                                            |   | 50                                       | m/s <sup>2</sup> |

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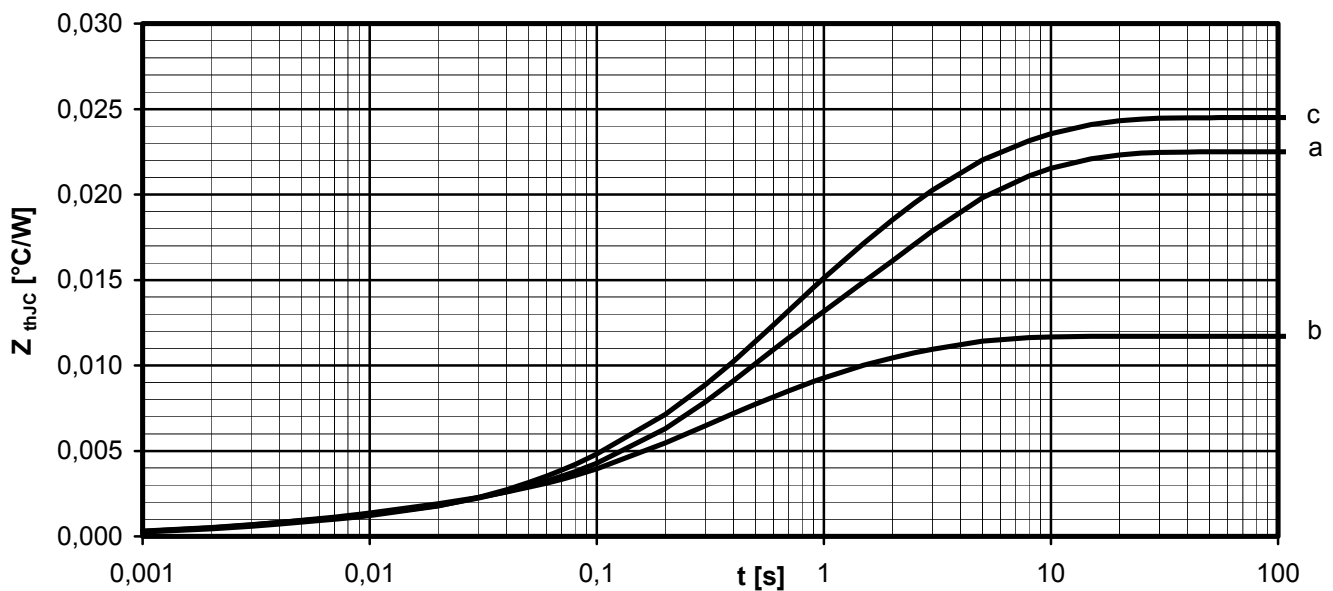
- 1: Anode / Anode**
- 2: Kathode / Cathode**
- 4: Gate**
- 5: Hilfskathode/ Auxiliary Cathode**


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**Analytische Elemente des transienten Wärmewiderstandes  $Z_{thJC}$  für DC**  
**Analytical elements of transient thermal impedance  $Z_{thJC}$  for DC**

| Kühlung / Cooling               | Pos. n                  | 1       | 2       | 3       | 4       | 5       | 6       | 7 |
|---------------------------------|-------------------------|---------|---------|---------|---------|---------|---------|---|
| beidseitig<br>two-sided         | $R_{thn} [^{\circ}C/W]$ | 0,00003 | 0,00057 | 0,00091 | 0,00274 | 0,00425 | 0,00319 | - |
|                                 | $\tau_n [s]$            | 0,00029 | 0,00298 | 0,01350 | 0,13400 | 0,44900 | 2,05000 | - |
| anodenseitig<br>anode-sided     | $R_{thn} [^{\circ}C/W]$ | 0,00004 | 0,0006  | 0,00105 | 0,0076  | 0,0085  | 0,00472 | - |
|                                 | $\tau_n [s]$            | 0,00029 | 0,0023  | 0,02400 | 0,3100  | 1,9000  | 6,10000 | - |
| kathodenseitig<br>cathode-sided | $R_{thn} [^{\circ}C/W]$ | 0,00004 | 0,0006  | 0,00205 | 0,00805 | 0,009   | 0,00477 | - |
|                                 | $\tau_n [s]$            | 0,00029 | 0,0030  | 0,05700 | 0,38000 | 1,570   | 6,10000 | - |

Analytische Funktion / Analytical function:

$$Z_{thJC} = \sum_{n=1}^{n_{max}} R_{thn} \left( 1 - e^{-\frac{t}{\tau_n}} \right)$$


**Transienter innerer Wärmewiderstand für DC / Transient thermal impedance for DC**  
 $Z_{thJC} = f(t)$ 

 a - Anodenseitige Kühlung / Anode-sided cooling  
 b - Beidseitige Kühlung / Two-sided cooling  
 c - Kathodenseitige Kühlung / Cathode-sided cooling


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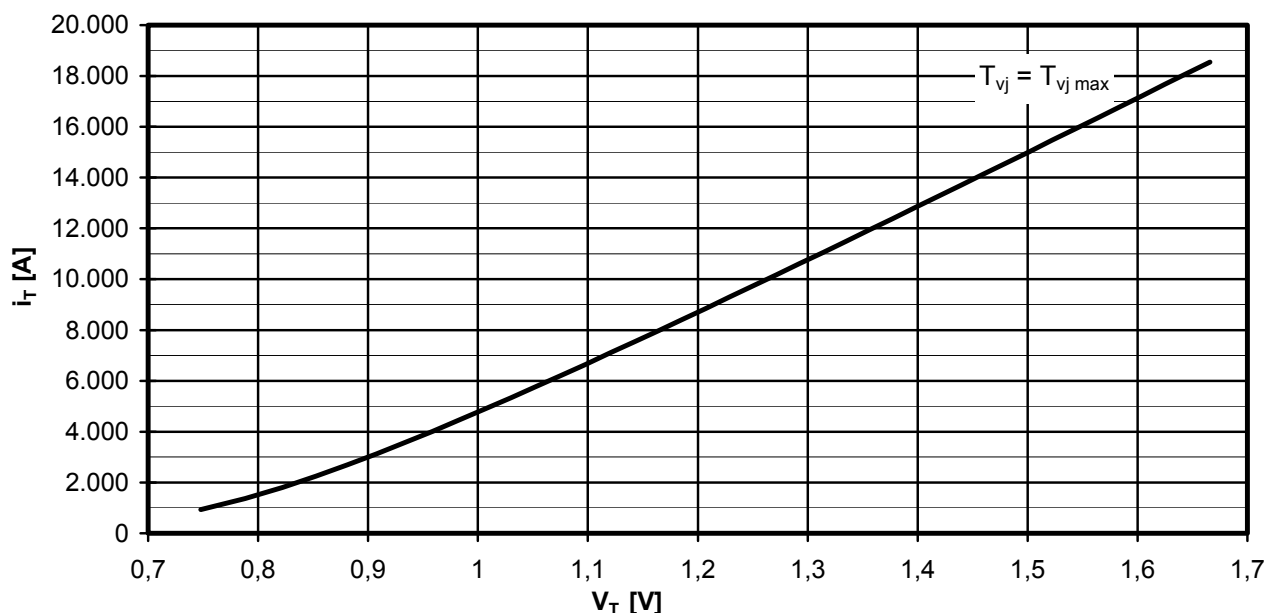
**Erhöhung des  $Z_{th DC}$  bei Sinus und Rechteckströmen mit unterschiedlichen Stromflusswinkeln  $\Theta$**   
**Rise of  $Z_{th DC}$  for sinewave and rectangular current with different current conduction angles  $\Theta$**

 $\Delta Z_{th \Theta rec} / \Delta Z_{th \Theta sin}$ 

| Kühlung / Cooling               |                                         | $\Theta = 180^\circ$ | $\Theta = 120^\circ$ | $\Theta = 90^\circ$ | $\Theta = 60^\circ$ | $\Theta = 30^\circ$ |
|---------------------------------|-----------------------------------------|----------------------|----------------------|---------------------|---------------------|---------------------|
| beidseitig<br>two-sided         | $\Delta Z_{th \Theta rec} [^\circ C/W]$ | 0,00105              | 0,00000              | 0,00218             | 0,00281             | 0,00376             |
|                                 | $\Delta Z_{th \Theta sin} [^\circ C/W]$ | 0,00080              | 0,00112              | 0,00154             | 0,00214             | 0,00315             |
| anodenseitig<br>anode-sided     | $\Delta Z_{th \Theta rec} [^\circ C/W]$ | 0,00098              | 0,00166              | 0,00220             | 0,00298             | 0,00422             |
|                                 | $\Delta Z_{th \Theta sin} [^\circ C/W]$ | 0,00064              | 0,00096              | 0,00140             | 0,00212             | 0,00345             |
| kathodenseitig<br>cathode-sided | $\Delta Z_{th \Theta rec} [^\circ C/W]$ | 0,00091              | 0,00150              | 0,00194             | 0,00254             | 0,00346             |
|                                 | $\Delta Z_{th \Theta sin} [^\circ C/W]$ | 0,00067              | 0,00095              | 0,00133             | 0,00189             | 0,00286             |

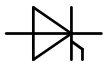
$$Z_{th \Theta rec} = Z_{th DC} + \Delta Z_{th \Theta rec}$$

$$Z_{th \Theta sin} = Z_{th DC} + \Delta Z_{th \Theta sin}$$



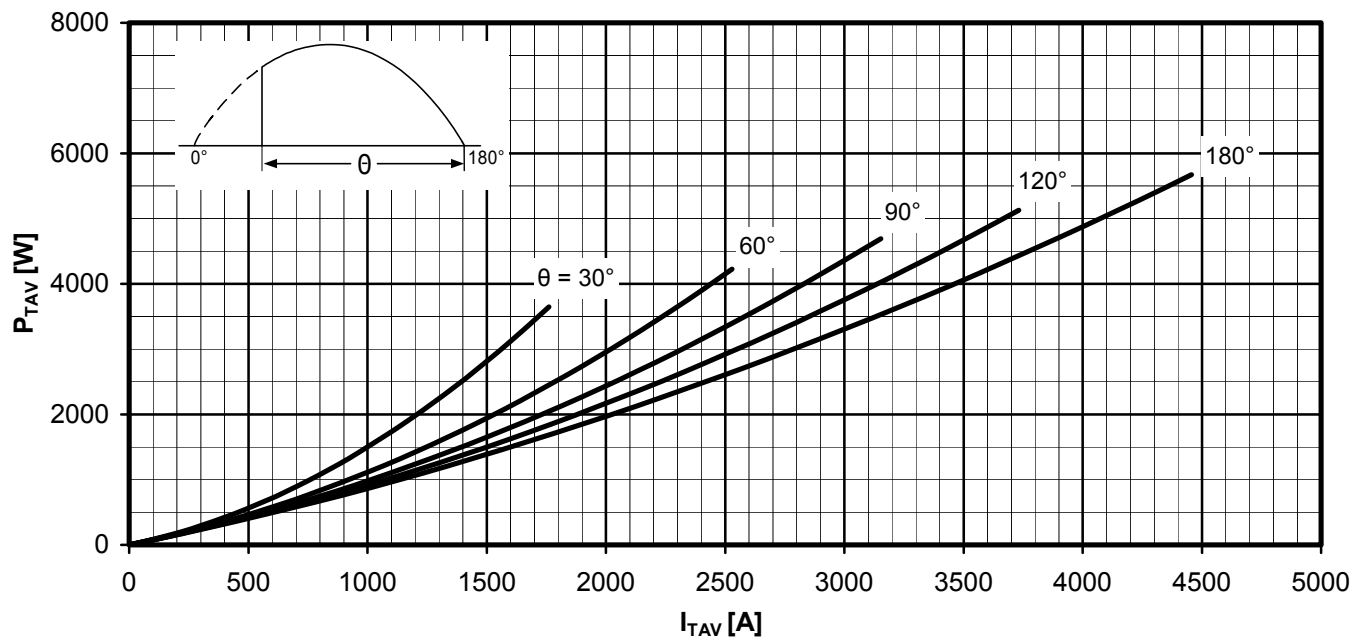
**Grenzdurchlasskennlinie / Limiting on-state characteristic  $i_T = f(V_T)$**

 $T_{vj} = T_{vj max}$



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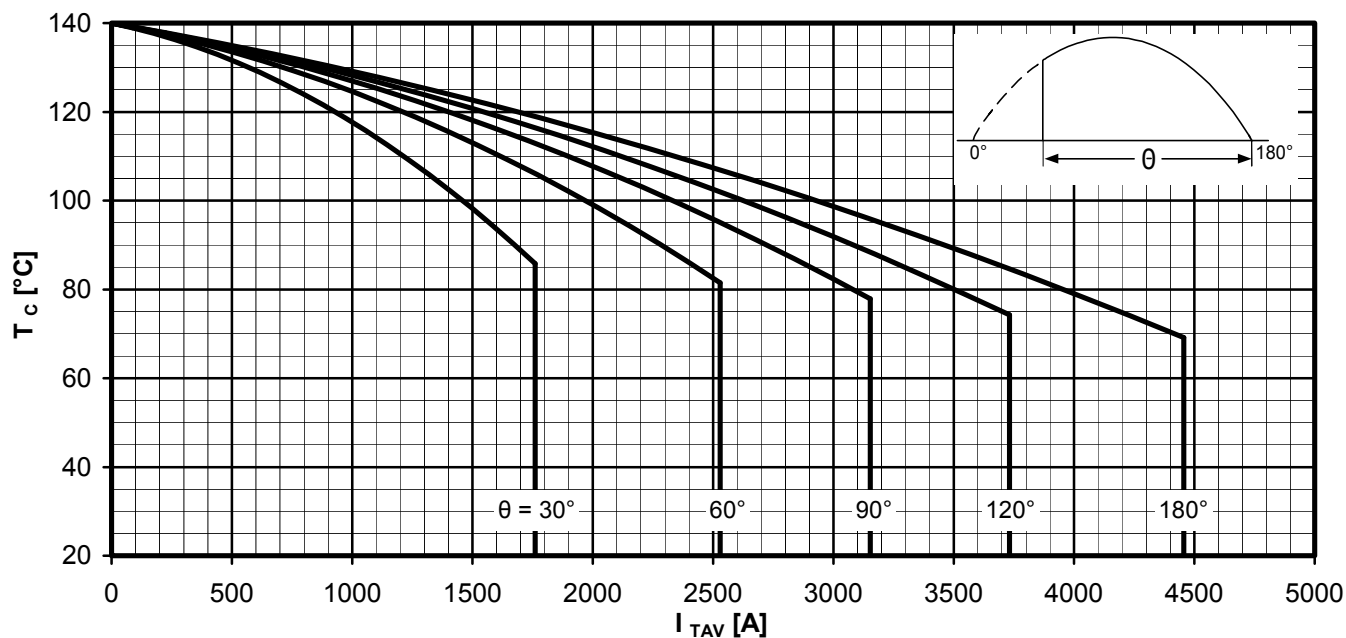
**T3710N**



Durchlassverlustleistung / On-state power loss  $P_{TAV} = f(I_{TAV})$

Sinusförmiger Strom / Sinusoidal current

Parameter: Stromflusswinkel  $\Theta$  / Current conduction angle  $\Theta$

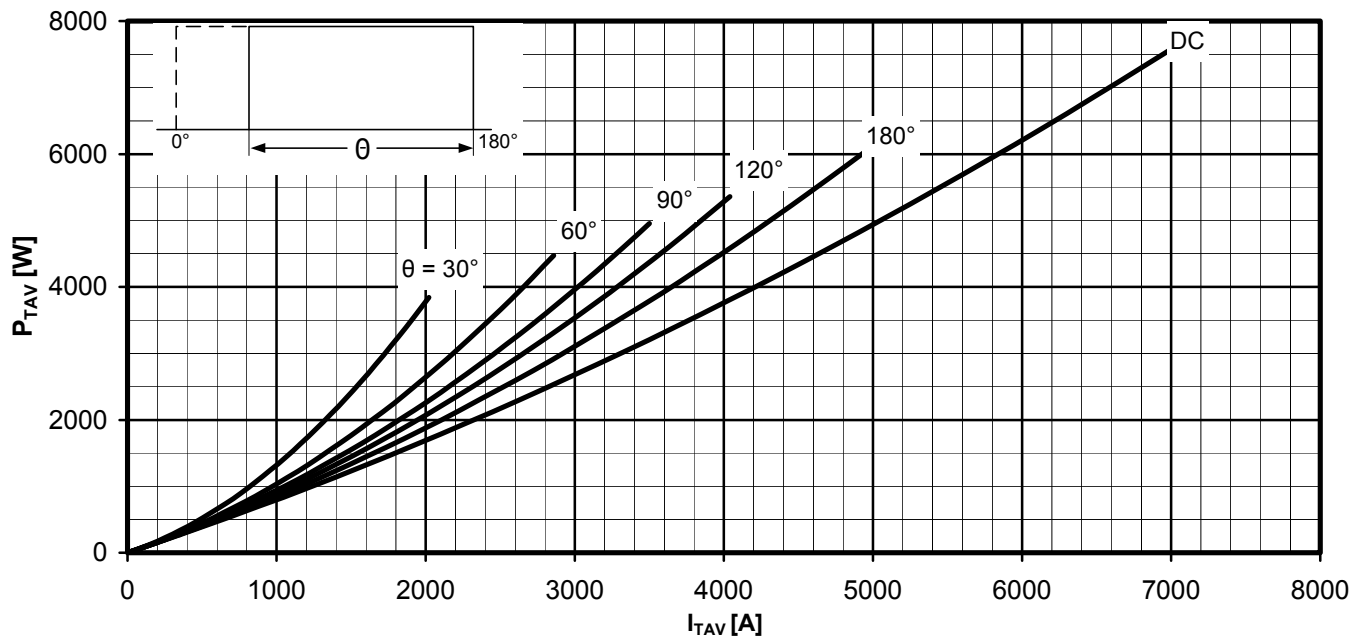


Höchstzulässige Gehäusetemperatur / Maximum allowable case temperature  $T_c = f(I_{TAV})$

Sinusförmiger Strom / Sinusoidal current

Beidseitige Kühlung / Two-sided cooling

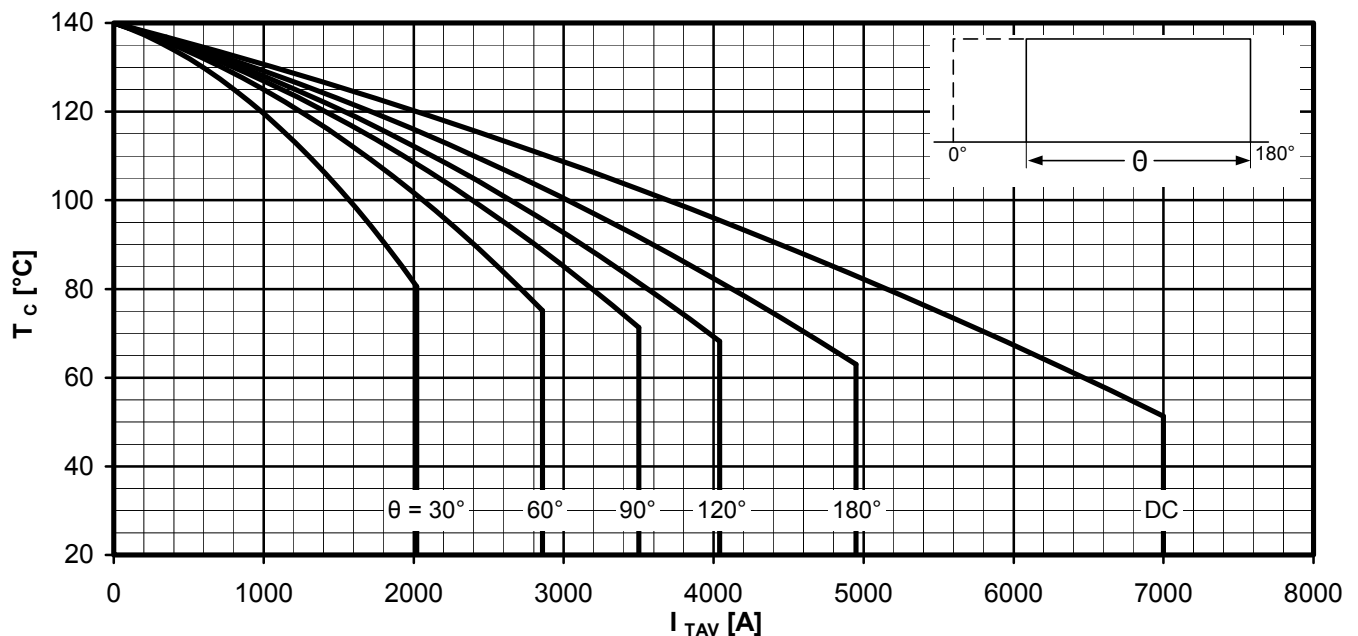
Parameter: Stromflusswinkel  $\Theta$  / Current conduction angle  $\Theta$


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Durchlassverlustleistung / On-state power loss  $P_{TAV} = f(I_{TAV})$

Rechteckförmiger Strom / Rectangular current

Parameter: Stromflusswinkel  $\Theta$  / Current conduction angle  $\Theta$

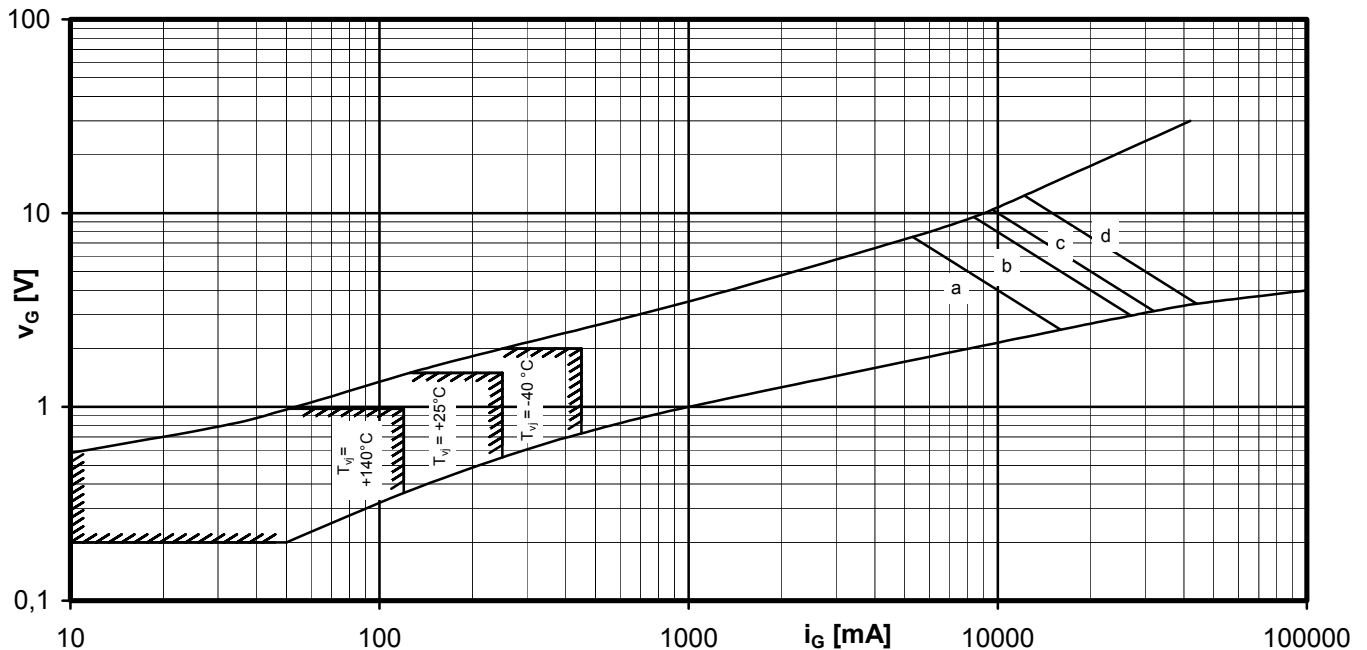


Höchstzulässige Gehäusetemperatur / Maximum allowable case temperature  $T_c = f(I_{TAV})$

Rechteckförmiger Strom / Rectangular current

Beidseitige Kühlung / Two-sided cooling

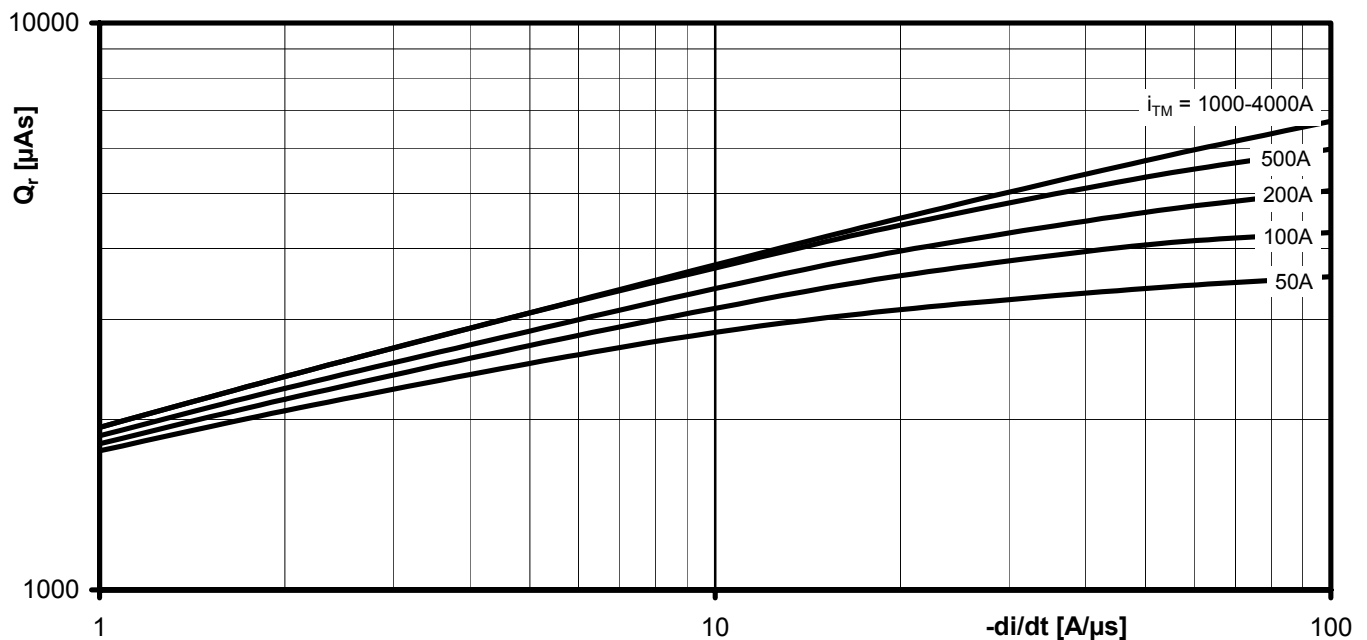
Parameter: Stromflusswinkel  $\Theta$  / Current conduction angle  $\Theta$


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**Steuercharakteristik  $v_G = f(i_G)$  mit Zündbereichen für  $V_D = 12\text{ V}$**   
**Gate characteristic  $v_G = f(i_G)$  with triggering area for  $V_D = 12\text{ V}$**

Höchstzulässige Spitzensteuerverlustleistung / Maximum rated peak gate power dissipation  $P_{GM} = f(t_g)$ :

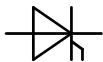
a - 20W / 10ms    b - 40W / 1ms    c - 60W / 0,5ms



**Sperrverzögerungsladung / Recovered charge  $Q_r = f(di/dt)$**

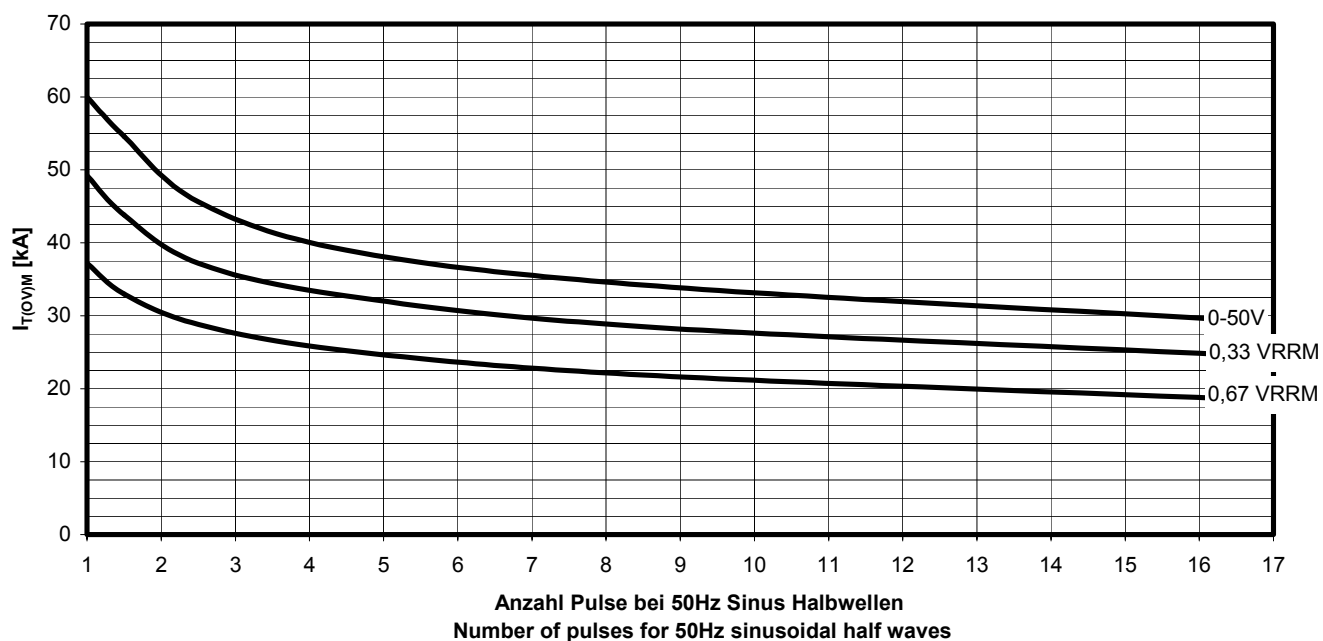
$T_{vj} = T_{vjmax}$ ,  $V_R \leq 0,5 V_{RRM}$ ,  $V_{RM} = 0,8 V_{RRM}$

Parameter: Durchlassstrom / On-state current  $i_{TM}$



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Typische Abhängigkeit des Grenzstromes  $I_{T(OV)M}$  von der Anzahl für eine Folge von Sinus Halbwellen bei 50Hz. Parameter: Rückwärtsspannung  $V_{RM}$   
 Typical dependency of maximum overload on-state current  $I_{T(OV)M}$  as a number of a sequence of sinusoidal half waves at 50Hz. Parameter: peak reverse voltage  $V_{RM}$   
 $I_{T(OV)M} = f(\text{pulses}, V_{RM})$ ;  $T_{vj} = T_{vjmax}$

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                   |                         |                                                                                     |
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| Netz-Thyristor<br>Phase Control Thyristor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                   | T3710N                  |                                                                                     |
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