606-868 TO 606-935

# Overload Protection
# 30 V, 120 °C

**B 599*5**
**C 915 ... C 995**

## Applications

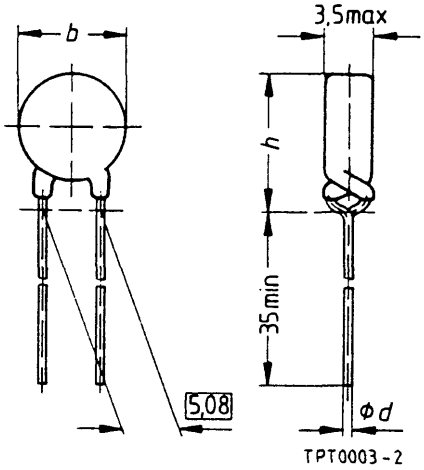
- Overcurrent and short-circuit protection

## Features

- Coated thermistor disk
- Manufacturer's logo and type designation stamped on in white
- Low resistance
- For rated currents of up to 2.5 A
- UL approval (E69802)

## Options

- Leadless disks and leaded disks without coating available upon request
- Thermistors with diameter $b \leq 11.0$ mm are also available on tape




Dimensions (mm)

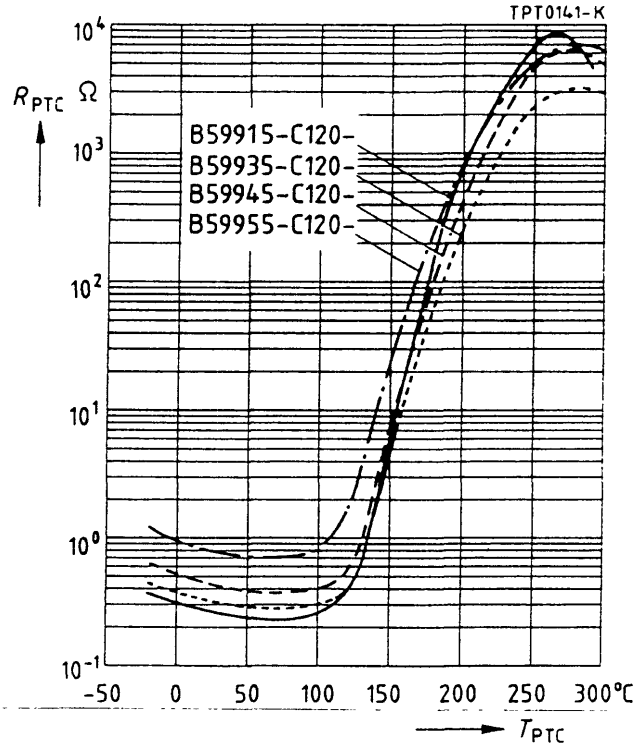
| Type | $b_{max}$ | Ø$d$ | $h_{max}$ |
|---|---|---|---|
| C 915 | 26.0 | 0.8 | 29.5 |
| C 935 | 22.0 | 0.6 | 25.5 |
| C 945 | 17.5 | 0.6 | 21.0 |
| C 955 | 13.5 | 0.6 | 17.0 |
| C 965 | 11.0 | 0.6 | 14.5 |
| C 975 | 9.0 | 0.6 | 12.5 |
| C 985 | 6.5 | 0.6 | 10.0 |
| C 995 | 4.0 | 0.5 | 7.5 |

| | | | | |
|---|---|---|---|---|
| Max. operating voltage | ($T_A$ = 60 °C) | $V_{max}$ | 30 | V |
| Rated voltage | | $V_N$ | 24 | V |
| Switching cycles (typ.) | | $N$ | 100 | |
| Switching time | | $t_S$ | ≤ 10 | s |
| Reference temperature | | $T_{Ref}$ | 120 | °C |
| Resistance tolerance | | $\Delta R_N$ | ± 25 % | |
| Operating temperature range | ($V$ = 0) | $T_{op}$ | −25/+ 125 | °C |
| | ($V = V_{max}$) | $T_{op}$ | 0/60 | °C |

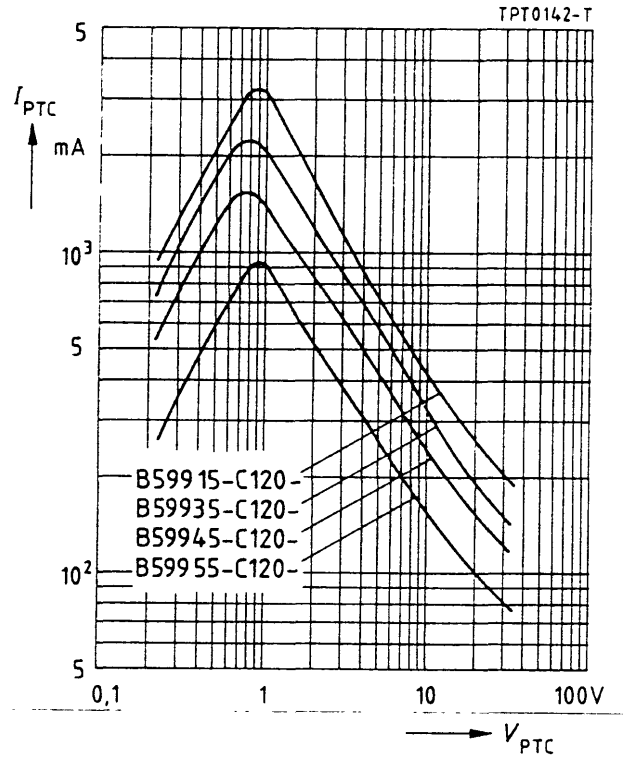
| Type | $I_N$ mA | $I_S$ mA | $I_{Smax}$ ($V=V_{max}$) A | $I_r$ ($V=V_{max}$) mA | $R_N$ Ω | $R_{min}$ Ω | Ordering code |
|---|---|---|---|---|---|---|---|
| C 915 | 2500 | 5000 | 15.0 | 220 | 0.2 | 0.1 | B59915-C120-A70 |
| C 935 | 1800 | 3600 | 10.0 | 170 | 0.3 | 0.2 | B59935-C120-A70 |
| C 945 | 1300 | 2600 | 8.0 | 115 | 0.45 | 0.3 | B59945-C120-A70 |
| C 955 | 850 | 1700 | 5.5 | 80 | 0.8 | 0.5 | B59955-C120-A70 |
| C 965 | 600 | 1200 | 4.3 | 70 | 1.2 | 0.7 | B59965-C120-A70 |
| C 975 | 450 | 900 | 3.0 | 60 | 1.8 | 1.1 | B59975-C120-A70 |
| C 985 | 250 | 500 | 1.0 | 45 | 4.6 | 2.7 | B59985-C120-A70 |
| C 995 | 120 | 240 | 0.7 | 25 | 13 | 7.8 | B59995-C120-A70 |

## Characteristics (typical)

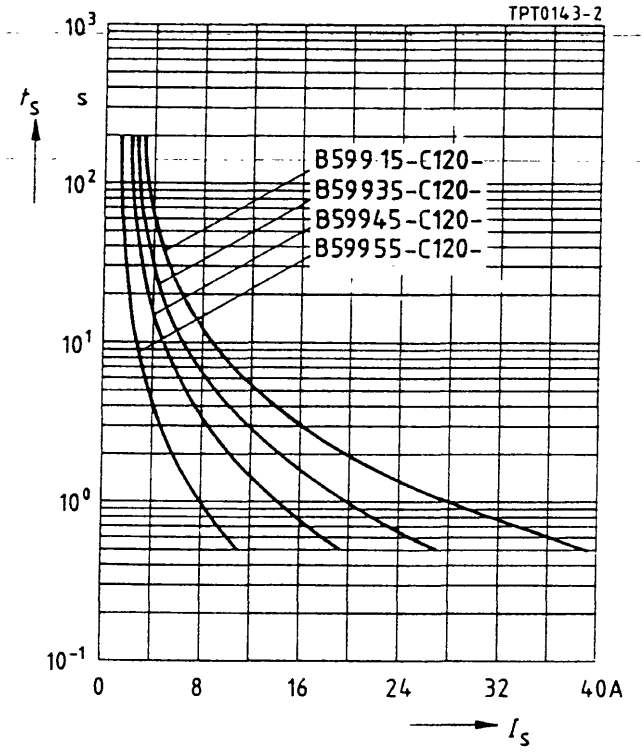
PTC resistance $R_{PTC}$ versus
PTC temperature $T_{PTC}$
(measured at low signal voltage)



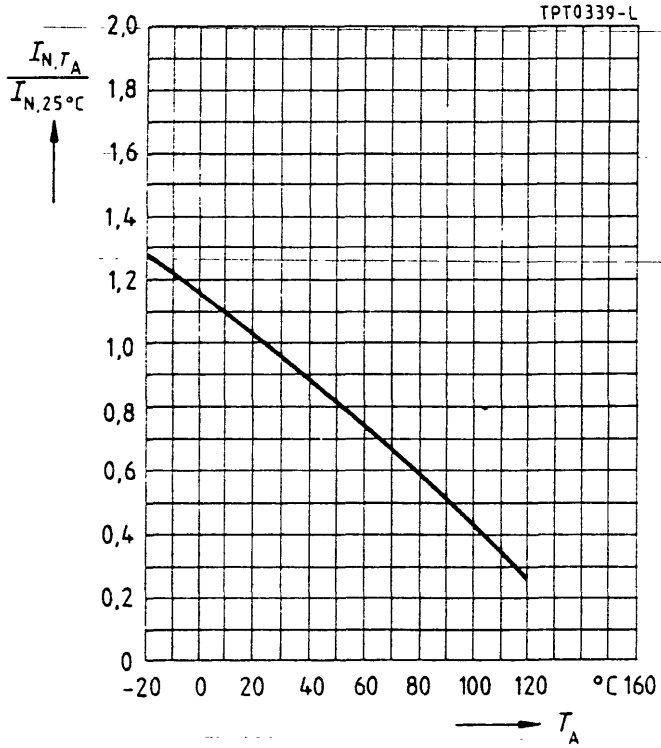

PTC current $I_{PTC}$ versus PTC voltage $V_{PTC}$
(measured at 25 °C in still air)




Switching time $t_S$ versus switching current $I_S$
(measured at 25 °C in still air)

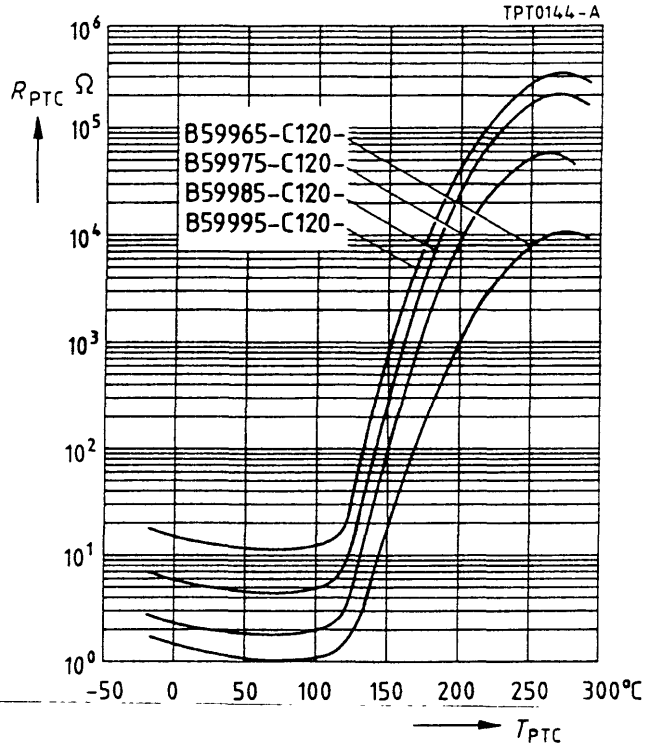



Rated current $I_N$ versus ambient temperature $T_A$
(measured in still air)

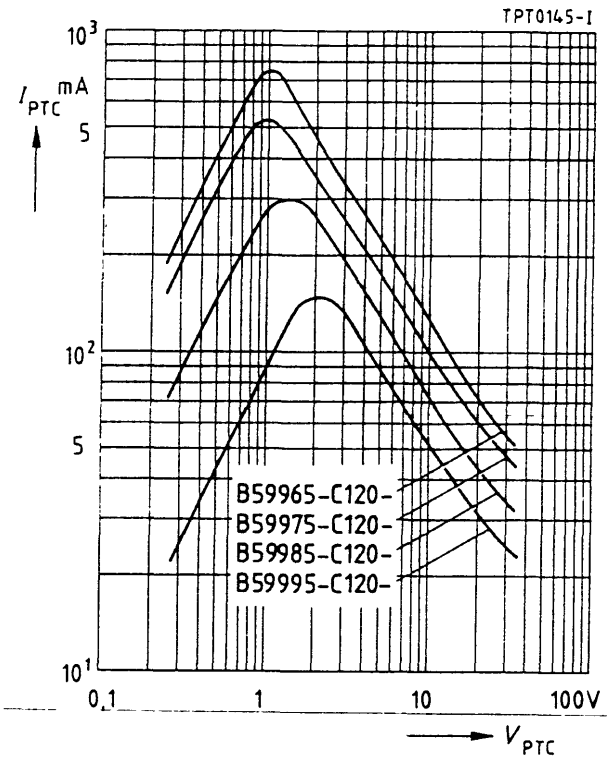


## Characteristics (typical)

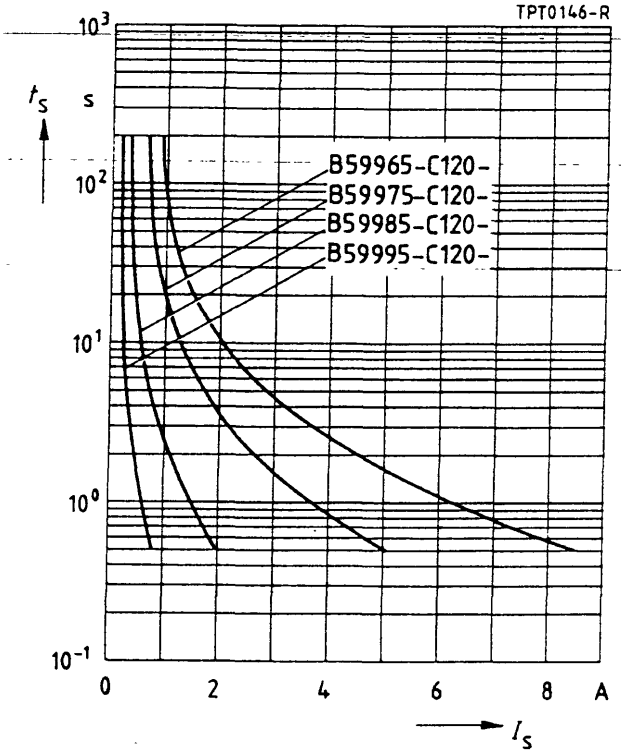
PTC resistance $R_{PTC}$ versus
PTC temperature $T_{PTC}$
(measured at low signal voltage)




PTC current $I_{PTC}$ versus PTC voltage $V_{PTC}$
(measured at 25 °C in still air)




Switching time $t_S$ versus switching current $I_S$
(measured at 25 °C in still air)




Rated current $I_N$ versus ambient temperature $T_A$
(measured in still air)