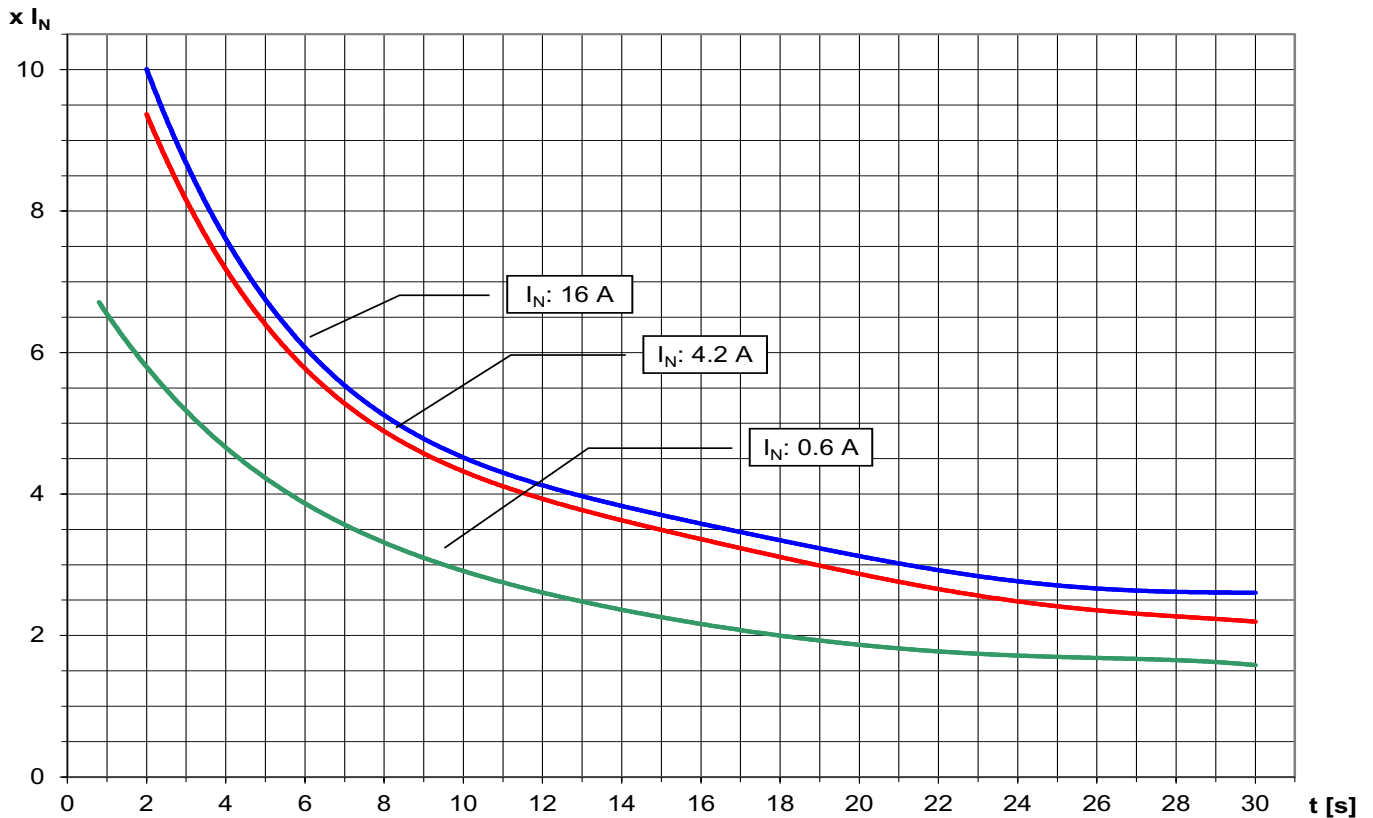


Wire-wound tubular resistors type FW

Overload diagrams



Our wire-wound tubular resistors type FW can be highly overloaded for a short time. This overload behaviour is shown in the curves above. The overload factor in function of the time is shown for three different nominal currents I_N . The intermediate values of the nominal currents can be interpolated or extrapolated. The curves show standard values without high accuracy.

Important !

The curves are only valid by a turn on temperature of 20 °C. For intermittent charge, a cooling time from min. 15 minutes must be considered.

The curves are measured at natural convection cooling in a horizontal position. With an additional cooling (for example ventilator, relative wind etc.) the cooling time will be reduced considerably.

For special applications and in case of doubt, an exact calculation or the experiment is authoritative.

Example:

Wire-wound tubular resistors type FW 30-100, nominal current $I_N = 4.2 \text{ A}$, ohmic value $R = 2R9$

The following four examples show how the curves can be used:

Overload current 42 A during 1 second or
30 A during 4 seconds or
17 A during 10 seconds or
10 A during 20 seconds