Permissible service current $I_r$, as a function of current transformer length ($L_6$), the surrounding oil and bus duct air temperature (acc. to dimension sheet 1ZCD061816)

### Abbreviation:

- **Type of insulation**: RIP, Resign Impregnated Paper (Temp. class E)
- **$T_{\text{air}}$ [°C]**: Air temperature inside the bus duct (daily mean)
- **$T_{\text{oil}}$ [°C]**: Oil temperature (daily mean)
- **$I_r$ [kA]**: Permissible operating current
- **f [Hz]**: 60

- **Bus conductor temperature max. 20 K above air temperature**
- **Transformer lead temperature max. 10 K above oil temperature**