Transformers for railway applications
CONVERTER CHOKES

Main Characteristics

Converter transformers are used within the passengers cars power supply converter. Four different operations:

- Converter Input Chokes (Line chockes): to suppress the harmonic generated by the converter.
- Battery charger chokes: to dampen the ripple on the charger output voltage, which is used to charge the batteries for suppling the passenger car during power cuts.
- DC Link Chokes: to dampen the ripple on the DC Link voltage.
- Converter Output Chokes (sinus filters): to dampen the PWM ripple of the output inverter. They also protect the semiconductors in the inverter circuit.

Construction and materials

- Highly permeable iron core, low losses.
- High quality copper or aluminium windings.
- Low losses, high efficiency.
- Vacuum impregnated varnish to ensure silent and moisture-immune operation.

Upon request

RTR´s technical team offers the possibility of manufacturing equipment according to customer application need.

Standards

- IEC 60310
- UNE-EN 60310

Technical Characteristics	
Operating voltage	24V-1500V
Operating frequency	DC-100Hz
Switching frequency	2kHz-8kHz
Ripple	%30
Nominal current	10A-2000A
Isolation class	F (155ºC)
Isolation voltage	6000V
Ambient Temperature	-40ºC/ +60ºC