

400kVA converter

DC/AC 400kVA on-board railway converter

Transforms the 750V_{DC} direct voltage of the railway electrical network into three-phase 400V_{AC} 50Hz for:

- Power supply of a vacuum cleaner train for track cleaning
- Ignition of vacuum cleaner motor: 2x170kVA

MAIN ADVANTAGES

- 400V three-phase network supply
- Asynchronous motor ignition
- Desk control
- Historization and storage of defects and failures which can be downloaded on PC
- Air cooling
- Power supply by third track 750V_{DC}
- Insulation between input and output
- Output voltages and current monitoring
- Monitoring of the noticeable voltage
- Monitoring of the input voltage
- Withstanding to untimely and repeated outages of the power supply voltage
- Monitoring of the internal components temperature



SPECIFICATIONS

MECHANICAL

Transformer dimensions	H=1657mm; W=1205mm; D=782mm
Transformer weight	1420kg
Converter cabinet dimensions	H=1600mm; W=2000mm; D=800mm
Converter cabinet weight	1230kg

ELECTRICAL

Power	400kVA
Input voltage	$U_{EN}=750V_{DC}, 550V_{DC} \leq U_E < 900V_{DC}$
Output voltage distortion	Overall THD <5%
Efficiency	90%
Output voltage	$U_s=400V_{AC}$ 50Hz three-phase

PROTECTION

Electrical	Against input voltage shocks Against short-circuits Against over and under voltage Against inrush currents Against electrical overload Against polarity inversion EMC
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ENVIRONMENTAL

IP53

THERMAL

Protected power bridge

Data are given by way of illustration and are liable to be modified without notice