

195DCDC13TX750 - AUXILIARY POWER CONVERTER

MSc Traction Auxiliary Power Converter produces both AC- and DC- output power for different auxiliary power needs of the metro car.



***Under frame mounted Auxiliary Converter
(The picture does not show exactly the
specified unit and its cooling arrangement.)***

TECHNICAL DATA

Type: 195DCDC13TX750

Input Characteristics:

- Nominal input voltage: 750 V_{DC}

Output Characteristics:

- Output voltage $U_{1OUTN} = 3 \times 220 \text{ V}_{rms}$)
- Output current $I_{1OUTN} = 13 \text{ A}$
- Output frequency $f_N = 60 \text{ Hz}$
- Output power $P_{1N} = 5,0 \text{ kVA}$
- Output voltage $U_{2OUTN} = 72 \text{ V}_{DC}$
- Output current $I_{2OUTN} = 195 \text{ A}$
- Output power $P_{2N} = 14,0 \text{ kW}$
- Overload capability
1.5x I_{AN}: at +45°C 5 s/10 min

Protections

- over current protection
- over voltage protection
- under voltage protection
- earth-fault protection
- output phase supervision
- short-circuit protection
- motor thermal protection
- over and under temperature protection

Application:

- Auxiliary power needs of the vehicle
- Battery charging

Mechanical Data

Input		General	
Nominal input voltage	750 V _{DC}	Efficiency	> 92 %
Operating range	500 V – 900 V _{DC}	Temperature range	-10...+45°C
AC-output	3x2200V _{AC} (± 5%) 60 Hz	Humidity	Less than 95%
DC-output	72 V _{dc}	Cooling	Forced-Air/Convection cooled
Continuous power		Dimensions (WxLxH) in mm	566x1100x668 + 697x850x372
AC-output	5,0 kVA	Weight	220 kg + 250 kg
DC-output	14,0 kW	Mounting	Under frame
Max. output power/ +45°C/5s/10 min	7,5 kVA/3x220 VAC	Housing	IP 65
Max. output power/ +45°C/5s/10 min	16 kW/72 Vdc		

Complying standards

Electrical particles	EN 50207, Railway applications – Electronic power converters for rolling stock
Vibration shock etc.	EN 50155, Railway applications – Electronic equipment used on rolling stock
EMC	EN 50121-3-2, EMC on board rolling stock

Block diagram

