



KHPM 140-5

MAIN AND AUXILIARY CONVERTER
FOR ELECTRIC VEHICLES



Provides feeding liquid-cooled asynchronous traction motor



Charging traction battery



Modular system

The container of main and auxiliary converter KHPM 140-5 includes electrical equipment of electric-powered bus or other electric vehicle. It provides feeding liquid-cooled asynchronous traction motor, feeding auxiliary drives and charging traction battery.

Basic parameters: As an integrated unit KHPM 140-5 provides the following functions of electrical equipment of electric-powered bus.

- Control torque of water-cooled asynchronous traction electromotor in drive, brake and run modes including recuperative braking.
- Feeding vehicles on-board system, charging of connected accumulators
- Charging of traction accumulators from distribution main 3 x 400 V AC, 50 Hz, 3 x 32 A.

Design concept: Container of main and auxiliary converter KHPM 140-5 features a frame construction made by welded profiles. The dimensions of frame construction are 1143 x 330 x 580 mm. In front part are placed tilt lockable door, opened downwards with angle of opening 110°.

Supply of power section:

Supply voltage	556,8 V DC
Output voltage	3 x 0 to 400V
Frequency	0 to 200 Hz
Modulation frequency	2,5 kHz
Output nominal current	200 A
Output overload current	350 A / 10 s
Load	asynchronous traction motor
Engine output	up to 120 kW

On-board traction batteries charger:

Input voltage	3 x 400 V AC, 50 Hz
Input current	3 x 32 AAC
Output voltage	556,8 V DC
Output current	0 to 39 A

Vehicle battery charger:

Input voltage	556,8 V DC
Output voltage	2 x 14 V
Output current (total)	170 A
Output current	10A

Other data:

Covering	IP 65
Cooling	liquid
Outline dimensions (w x h x d)	1143 x 330 x 580 mm
A sound pressure level	< 65 dB
Weight	119 kg