

# SMART DRIVES FOR ELECTRICAL COMMERCIAL VEHICLES



## eAir COMPRESSORS FOR MOBILE APPLICATIONS

eAir V60

- variable speed permanent magnet motor
- compact design & low weight
- low noise & vibration due to screw compressor technology
- high power density & efficiency
- liquid cooled (water/glycol)
- long life expectancy, little maintenance requirements & costs
- developed for on-/off-road application

# MAXIMUM POWER IN SMALLEST DIMENSIONS



MOTEG air compressors have been developed specifically for use in mobile applications. They offer the best solution between power, size, weight, noise, efficiency and costs. In combination with the MOTEG MMA-Series electric motors, that have been especially designed for use in mobile applications, they offer for electric commercial vehicles with both high air demand (max 490l/min @ 10 bar) and high pressure (max 15 bar) the optimum solution.

- operation with HV-frequency inverter, no DC/DC-converter necessary
- suitable battery supply voltage (DC): 300 V - 800 V
- available motor voltages (AC): 230 V<sub>RMS</sub> & 400 V<sub>RMS</sub>
- optional with rotor-position-sensor (sin/cos-encoder)
- automatic compressor temperature & dehumidification management  
→ large duty cycle (0-100%)
- On-Demand control software (optional)  
→ noise reduction
- connection to the CAN-Bus via J1939 und UDS (optional)
- IP67 protection class
- customizable coolant connectors



Type	Pressure [bar]	Flow Rate* [l/min]	Nominal Speed (speed range) [min <sup>-1</sup> ]	Noise** [db(A)]	Motor Voltage [VAC]	Motor Power*** [kW]	Dimensions (l x w x h) [mm]	Weight [kg]
eAir-V60-AA1	12,5	270/325	3000 (1000-3500)	68	400	3,6	500 x 320 x 350	28,8
eAir-V60-AC1	12,5	270/325	3000 (1000-3500)	68	230	3,6	500 x 320 x 350	28,8
eAir-EV01-AA1	15	430/490	3300 (2800-3800)	68	230/400	5,2	500 x 371 x 408	58

\* @3000 min<sup>-1</sup> @ 10 bar / 3500 min<sup>-1</sup> @ 10 bar (eAir V60)  
 \* @3300 min<sup>-1</sup> @ 12,5 bar / 3800 min<sup>-1</sup> @ 10 bar (eAir EVO1)  
 \*\* @ 2500 min<sup>-1</sup> @ 10 bar (eAir V60)  
 \*\* @ 3300 min<sup>-1</sup> @ 10 bar (eAir EVO1)  
 \*\*\* @ 3000 min<sup>-1</sup> @ 12,5 bar (eAir V60)  
 \*\*\* @ 3750 min<sup>-1</sup> @ 15 bar (eAir V60)