

VORTX INVERTER 3.5 kW

HIGH EFFICIENCY & WORKS IN ANY GRID



HVAC/R

HOME APPLIANCES

PROFESSIONAL APPLIANCES

With the new Vortx Inverter series, we are expanding our portfolio with pre-developed, ready-to-use electronic solutions for heat pumps and cooling units. The series is aimed particularly at small and medium-sized manufacturers who want to benefit from modern inverter technology without having to accept long development times or high entry barriers.

Highlights:

- > High energy efficiency thanks to coordinated electronics and software
- > Layout prepared for silicon carbide technology (SiC)
- > Compact design for flexible integration
- > Dual inverter – second motor output (e.g. fan/pump)
- > Integrated EMC protection for system security
- > Active PFC for ultra-low harmonics
- > High resilience to mains voltage fluctuations
- > Predefined platform for short time-to-market
- > Can be used worldwide: variants for 240 V and 400 V grids
- > Environmentally friendly operation with A2L refrigerant

TECHNICAL DATA

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Power range	3.5 kW
Operating voltage (full power)	230VAC +10%/-15% 50/60Hz 1 phase
Input current	15,5A
Output current	12A (Main Output), 0,8A (Fan/Pump Output)
EMC mains filter (Active PFC)	Integrated compliant EN/IEC 61000-3-2, PF>0.98
Supported motors	3-phase permanent magnet synchronous motors, 3-phase induction motors
Motor speed control	0 - 400 Hz sensorless (Encoderless)
Functional safety	Motor protection, (Locked rotor and loss of phase) Compatible with A2L, A3 flammable refrigerant systems
Temperature range	-20 °C up to 65 °C
Interfaces	STO; Modbus
Software	Diehl Controls software platform (7th generation).
Software Safety	Class B functions
Adaption	Optimum match with compressor for highest efficiency

Subject to change

CONTACT



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www.diehl.com/controls