



# SmartMove INVERTERS

for AC induction motors

## Target applications:

- HVAC pumps
- Fans & ventilators
- Domestic appliances
- High-efficiency AC induction motor applications

## Options

- Field weakening for speed increase
- Serial communication
- Possibility to customize for on-motor integration
- Power factor correction (PFC)

## Key features

- Microcontroller based
- OPEN or CLOSED LOOP speed control
- FIELD WEAKENING up to 350 Hz
- V/f or SLIP CONTROL algorithm
- UL approved
- Soft-start
- bidirectional 4Q driving
- Fast or controlled braking
- Fast hardware current limit
- Standard serial link for parameters setting, software download and monitoring
- Overtemperature, overcurrent, locked rotor, over and under voltage protections
- Fast mechanical customisation including thermal analyses
- Possibility to add customized logic and safety functions through software adaptation
- kit for fast & easy motor evaluation (PC software and hardware interface)

## Overview

ATech has available a family of high-efficiency INVERTERS for AC induction motor driving.

With several models optimised for most common power levels ATech's customers have available a technically superior, compact and reliable inverter, that can exactly match their application needs.

From small fans and ventilators to large HVAC pumps ATech inverters offer accurate speed control at highest efficiency levels.

DISCLAIMER: "Information contained in this publication regarding device applications and the like is provided only for your convenience and may be superseded by updates. It is your responsibility to ensure that your application meets with your specifications. Atech makes no representation or warranties of any kind whether express or implied, written or oral, statutory or otherwise, related to the information, including but not limited to its condition, quality, performance, merchantability or fitness for purpose. Atech disclaims all liability arising from this information and its use. No licenses are conveyed, implicitly or otherwise, under any Atech intellectual property rights."

**INVERTERS FOR AC INDUCTION MOTORS**

efficiency	Up to 85%
SUPPLY VOLTAGE	85-270 VAC @ 50-60Hz
SPEED RANGE	From 200 to 18.000rpm / 2 pole motor
SPEED SET INPUT	0 to 5V or 0 to power supply
DRIVING ALGORITHMS	Bidirectional, closed loop 4Q driving mode

**Models**

	IAC-150	IAC-300	IAC-800	IAC-1.500
power	150W	300W	800W	1.500 W
Dimension in mm (length/width/height)	40/60/20	60/75/30	90/103/41	90/140/50
FEATURES	SPEED LOOP TORQUE LOOP	SPEED LOOP TORQUE LOOP	SPEED LOOP TORQUE LOOP	SPEED LOOP TORQUE LOOP