

INVERTER DRIVES

OPTIDRIVE™ COOLVERT

SPECIFICALLY DESIGNED FOR BLDC COMPRESSORS



This high performance inverter drive is specially designed for BLDC compressors, heat pumps and condensing units, offering full functionality from simple programs to advanced features.

Designed for ease of use, the OptiDrive Coolvert is approved for use with Hitachi vertical and horizontal scroll compressors as well as scroll and rotary compressors from SCI. This includes A2L, HFHC and HC refrigerants, such as R290.

Meets recognised international design standards for CE (Europe) and cUL (USA and Canada).

About Inverter Drives : *Inverter Drives has been manufacturing AC variable speed drives since 1998. During this time, the company's brushless permanent magnet control technology has been successfully used on hundreds of different AC motor designs. All of the company's operations, including innovation, are accredited to the exacting customer focused ISO 9001 quality standard.*

FEATURES

- Open connectivity for seamless connection with any application controller
- Easy commissioning with external TFT keypad available and drive status LEDs
- Built in RS485 Modbus RTU
- Bluetooth connectivity available
- Compact design with through panel mounting, allowing the drive power electronics to be cooled by the chilled air
- Wide operating temperature -20°C to 60°C
- IP20 rated front enclosure, IP55 at the rear

SUPPLY VOLTAGES & OUTPUT CURRENT RANGE

- Single phase input (200-240V) :
7A, 12A, 16A, 20A
- Three phase input (380-480V) :
14A, 18A, 24A



TO TALK TO OUR EXPERT TEAM,
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MODEL	kW	HP	Amps	Size
200-240V = 10% 1 Phase Input	1.5	2	7.0	2
	3	4	12	2
	4	5.5	16	2
	5.5	7.5	20	2
380-480V = 10% 3 Phase Input	5.5	7.5	14	2
	7.5	10	18	2
	11	15	24	2

SELECTABLE MOTOR TYPES

Sensorless vector control for all motor types including

- AC Induction (IM)
- AC Permanent Magnet (PM)
- Brushless DC (BLDC)
- Synchronous Reluctance (SynRM)
- Line Start Permanent Magnet (LSPM)

CONTROL TERMINALS

- Pluggable control and communication terminals
- STO SIL3 Safe Torque Off for system protection, TUV approved
- Programmable, predefined input and output functions:
 - Start / Stop (enable/disable)
 - PTC motor thermal protection (0-10V, 4-20mA)
 - Relay (drive healthy/trip)

ENVIRONMENTAL COMPLIANCE

- Coated PCBs meet class 3C2 in accordance with EN60713-303
- Built-in EMC filter class C1 in accordance with EN61800-3-2004
- Low harmonic design compliant with EN61000-3-2 (1 phase 200-230V input) and EN61000-3-12 (3 phase 380-480V input)