

# OPTIDRIVE™



## The integrated drive solution

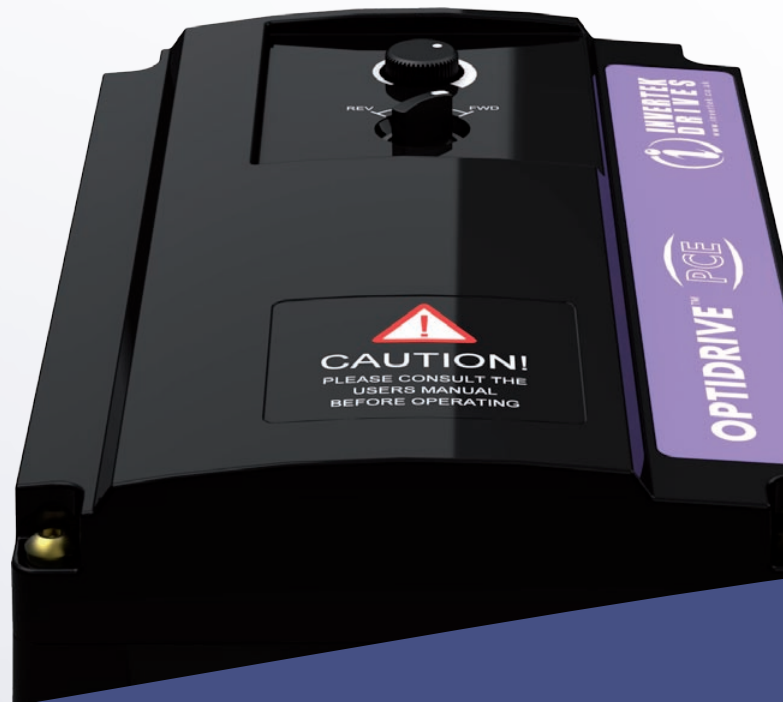
AC Variable Speed Drive

Up to 1.5kW / 2HP

**200–240V ± 10% 1 Phase Input**

**380–480V ± 10% 3 Phase Input**

- High performance integrated motor drive
- Sensorless vector control — up to 200% torque from zero speed
- IP55 enclosure protects against dust and fluid ingress
- Available with optional keypad or potentiometer
- Suitable for motor power ratings up to 1.5kW / 2HP
- Supplied with universal adaptor plate to suit most motors



## Model Reference

### 200–240V ± 10% 1 Phase Input, 3 Phase Output IP55 / NEMA 12

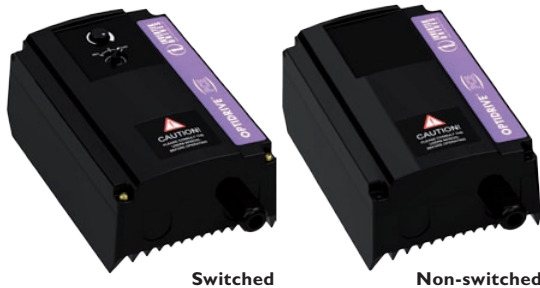
Switched Version		Non-switched Version		Output Current (A)
With Integrated EMC Filter	Without Filter	With Integrated EMC Filter	Without Filter	
OPC-I-12075-1KBIS	OPC-I-12075-1K0IS	OPC-I-12075-1KBIN	OPC-I-12075-1K0IN	4.5
OPC-I-12150-1KBIS	OPC-I-12150-1K0IS	OPC-I-12150-1KBIN	OPC-I-12150-1K0IN	7

### 380–480V ± 10% 3 Phase Input, 3 Phase Output IP55 / NEMA 12

Switched Version		Non-switched Version		Output Current (A)
With Integrated EMC Filter	Without Filter	With Integrated EMC Filter	Without Filter	
OPC-I-14075-3KBIS	OPC-I-14075-3K0IS	OPC-I-14075-3KBIN	OPC-I-14075-3K0IN	2.2
OPC-I-14150-3KBIS	OPC-I-14150-3K0IS	OPC-I-14150-3KBIN	OPC-I-14150-3K0IN	4.1

## Switched & Non-switched Units Available

- Local potentiometer for speed control
- Programmable switch:  
Drive REV/OFF/FWD  
or:  
Hand/OFF/Auto



## Universal Adaptor Plates

Supplied with adaptor plates for direct fitting on most motors.



**Deep adaptor plate**  
Part No: 66-PCEAP-02

**Shallow adaptor plate**  
Part No: 66-PCEAP-01

## Optional Keypad

Shown mounted in the enclosure:



## Drive Specification

Input Ratings	Supply Voltage	<b>230V:</b> 200 – 240V ± 10% <b>400V:</b> 380 – 480V ± 10%
	Supply Frequency	48–62Hz
Output Ratings	Output Power	Up to 1.5kW / 2HP
	Overload Capacity	150% for 60 secs; 175% for 2 secs
	Output Frequency	Up to 500Hz
Ambient Conditions	Temperature	<b>Ambient &amp; Heatsink Temperature:</b> -10 to 60°C
	Altitude	0–2000m (derate 1% / 100m above 1000m)
Enclosure	Ingress protection	IP55
Programming	Keypad	Optional External Keypad
	PC	Yes
	Pocket PC	Yes
	Preset speeds	8 user adjustable
	PID control	Internal
	Spin start	No
	Acceleration	0–3000 secs, 0.1 resolution
	Deceleration	<b>1<sup>st</sup> Ramp:</b> 0–3000 secs, 0.1 resolution <b>2<sup>nd</sup> Ramp:</b> 0–30 secs, 0.1 resolution
Control Specification	Control method	V/F Voltage Vector 3 <sup>rd</sup> Sensorless Vector
	Stopping mode	Coast Stop Ramp to Stop
	Skip frequency	Single point, user adjustable
	Setpoint control (internal)	0–10V 0–24V
		4–20mA 0–20mA Digital – Keypad Master / Slave (Optibus)
I/O Specification	Digital inputs	10–30V DC, internal or external supply, NPN Response time < 4ms
	Power supply	24V DC, 100mA, Short Circuit protected 10V DC, 10mA for Potentiometer
	Analog inputs	0–10V DC 0–24V DC 0/4–20mA 0/24V, 30V DC max Resolution: 12 bits + sign Response time < 4ms Accuracy: Better than 1% of full scale Parameter adjustable Scaling and Offset
		Relay outputs

