

# ODE-3-320153-1042

## Optidrive E3 VFD Datasheet

**4 kW (5 HP), 15.3 A, 200-240 V, 1-3PH**  
IP20 Variable Frequency Drive



### Input Ratings

Supply Voltage	200-240 V
Input Phases	1
Supply Current Continuous	29.2 A
Supply Fuse or MCB (Type B)	40 A

### Output Ratings

Motor Output Rating	4 kW (5 HP)
Output Voltage	0 – Supply Voltage
Output Current	15.3 A

### Cable Information

Max Supply Cable Size	8 mm <sup>2</sup> (0.01 sq in)
Max Motor Cable Size	8 mm <sup>2</sup> (0.01 sq in)
Max Motor Cable Length	100 m (328 ft)

### Factory Build Options

EMC Filter	No Internal EMC Filter
Brake Transistor	Internal Brake Transistor
Enclosure	IP20
Display	LED
PCB Coating	-


### Dimensions

Size	3
Height	261 mm (10.28 in)
Width	131 mm (5.16 in)
Depth	175 mm (6.89 in)
Weight	3.2 kg (7.05 lbs)
Fixings	4 x M5

### Packaged Dimensions

Height	254 mm (10 in)
Width	162 mm (6.38 in)
Depth	315 mm (12.4 in)
Weight	3.5 kg (7.72 lbs)



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Find your local sales partner on  
[inverterkdrives.com](http://inverterkdrives.com)



# OPTIDRIVE™

AC Variable Speed Drive

**General Purpose Drive**  
Easy control for all motor types

Easy to Use



0.37kW–37kW / 0.5HP–50HP  
**110–480V** Single & 3 Phase Input

**IP20**

**IP66**

## Easy to Use

### General Purpose Drive

Focused on ease of use, **Optidrive E3** provides unrivalled simplicity of installation, connection and commissioning, allowing the user to benefit from precise motor control and energy savings within minutes.



#### Simple Commissioning

With just 14 basic parameters and application macro functions providing rapid set up, Optidrive E3 minimises start-up time.



#### Intuitive Keypad Control

Precise digital control at the touch of a button.



#### Application Macros

Switch between **Industrial, Pump & Fan** modes to optimise Optidrive E3 for your application.

Industrial | Pump | Fan

See **Page 6**

## IP20

### Up to 37kW

- ✓ Easy to use
- ✓ Compact & robust

See **Page 4**



### Take a closer look at the stunning Optidrive E3



[www.invertekdrives.com/optidrive-e3](http://www.invertekdrives.com/optidrive-e3)

### Sensorless Vector Control for all Motor Types

#### IM

IE2 & IE3  
Induction  
Motors

#### PM

AC Permanent  
Magnet Motors

#### BLDC

Brushless DC  
Motors

#### SynRM

Synchronous  
Reluctance  
Motors

Precise and reliable control for  
**IE2, IE3 & IE4 motors**

**IP66**

**Up to 22kW**

- ✓ Outdoor rated
- ✓ Dust-tight
- ✓ Washdown ready

See **Page 5**



### Key Features

- ✓ Internal Category C1 EMC filter
- ✓ Internal PI control
- ✓ Internal brake chopper
- ✓ Dual analogue inputs
- ✓ Operates up to 50°C
- ✓ Bluetooth connectivity
- ✓ Option for control of single phase motors (see **Page 8**)

**Modbus RTU**  
**CAN**

on-board as standard

### Internal Category C1 EMC Filter

An internal filter in every Optidrive E3 saves cost and time for installation.

Cat C1 according to EN61800-3:2004



# OPTIDRIVE™

**IP20**

**Up to 37kW**

Compact, robust and reliable general purpose drive for panel mounting

## Simple Installation

DIN rail and keyhole mounting options

## Fast Connection

5mm rising clamp terminals with captive screws

## Quick Reference


Integrated help card

Operates up to 50°C

## Modbus RTU CAN

on-board as standard

## Incredibly Easy to Use

- ✓ Built in PI control, EMC filter (C1) & brake chopper
- ✓ Application macros for industrial, fan and pump operation
- ✓  Bluetooth® connectivity

## Optistick Smart

Rapid commissioning tool

See Page 10



Dual analogue inputs

Motor supply connects at base

## Controls Multiple Motor Types

- ✓ IE2, 3 & 4
- ✓ IM, PM, BLDC and SynRM

## Simply Power Up

Optidrive E3 provides precise motor control and energy savings using the factory default settings. Simply power up and the drive can immediately deliver energy savings.

14 basic parameters allow simple adjustment for your application if required, with up to 50 parameters available in total for a highly flexible performance.

5 sizes cover global supply ratings





# OPTIDRIVE™ E<sup>3</sup>

**IP66 Outdoor**

**Up to 22kW**

**Coated Heatsink as Standard**

Ideal for hygiene based operations requiring washdown — such as food and beverage

Outdoor rated enclosed drives for direct machine mounting, dust tight and ready for washdown duty



**Locally customisable**

Flat front to terminal cover with mounting points for switches and an internal PCB.



IP66 / NEMA 4X



Switched or non-switched

Conformal coating as standard



- 1** 2 x RJ45 ports  
eliminate the need for a splitter.
- 2** Easily accessible EMC disconnect
- 3** Easy to wire  
due to the large, accessible chamber and removeable gland plate.

**IP66/Nema 4X outdoor rated**

Built with tough polycarbonate plastics specifically chosen to withstand degradation by ultra violet (UV), greases, oils and acids. Also robust enough not to be brittle at -20°C.

**Dust-Tight Design**

Install directly on your processing equipment and be sure of protection from dust and contaminants.

**Washdown Ready**

With a sealed ABS enclosure and corrosion resistant heatsink, the Optidrive E3 IP66 is ideal for high-pressure washdown applications.

**Switched models**

Simply wire up the drive, turn the inbuilt potentiometer and the motor will start running – allowing immediate energy savings.

Saving energy cannot be easier than this!

For ultimate ease of use

- Local Speed Potentiometer
- Run Reverse / Off / Run Forward Switch
- Lockable Mains Disconnect / Isolator



# Application Macros

Switch modes at the touch of a button to optimise Optidrive E3 for your application

Single parameter application macro selection



## Industrial Mode

**Industrial Mode** optimises Optidrive E3 for load characteristics of typical industrial applications.

**Applications include:**

- ✓ Conveyors
- ✓ Mixers
- ✓ Treadmills

**Sensorless Vector** provides high starting torque and excellent speed regulation

**IP20** panel mount units or **IP66** for direct machine mounting

Rapid parameter cloning using **OPTISTICK** Smart

## Pump Mode

**Pump Mode** makes energy efficient pump control easier than ever.

**Applications include:**

- ✓ Dosing Pumps
- ✓ Borehole Pumps
- ✓ Transfer Pumps
- ✓ Swimming Pools
- ✓ Spas
- ✓ Fountains

- Constant or variable torque
- Internal PI control

## Fan Mode

**Fan Mode** (inc. fire operation) makes air handling a breeze, ideal for simple HVAC systems.

**Applications include:**

- ✓ Air Handling Units
- ✓ Ventilation Fans
- ✓ Circulating Fans
- ✓ Air Curtains
- ✓ Kitchen Extract

High efficiency **variable torque** motor control

- Flying start capability
- Mains loss ride through
- PI control

**Instant Power Savings**

The graph below shows the incredible efficiency of Optidrive E3 for controlling airflow compared to traditional damper control methods.

Air Volume (%)	Outlet Damper (kW)	Inlet Damper (kW)	Optidrive E3 (kW)
0	0	0	0
20	55	35	5
40	75	50	15
60	90	65	30
80	95	80	50
100	100	100	100



## Modbus RTU CAN

on-board as standard

## How much energy could you save?

Estimate potential energy savings, CO<sub>2</sub> emissions and financial savings for your application with the Inverter Drives Energy Savings Calculator app.



[www.invertekdrives.com/calculator](http://www.invertekdrives.com/calculator)

	kW	HP	Amps	Frame	Model Code	Product Family	Generation	Frame Size	Voltage Code	Output Current x 10	Supply Phases	EMC Filter	Brake Transistor	Enclosure Option
110–115V ± 10% 1 Phase Input	0.37	0.5	2.3	1	ODE - 3 - 1 1 0023 - 1	0	1	#						
	0.75	1	4.3	1	ODE - 3 - 1 1 0043 - 1	0	1	#						
	1.1	1.5	5.8	2	ODE - 3 - 2 1 0058 - 1	0	4	#						
200–240V ± 10% 1 Phase Input	0.37	0.5	2.3	1	ODE - 3 - 1 2 0023 - 1	#	1	#						
	0.75	1	4.3	1	ODE - 3 - 1 2 0043 - 1	#	1	#						
	1.5	2	7	1	ODE - 3 - 1 2 0070 - 1	#	1	#						
	1.5	2	7	2	ODE - 3 - 2 2 0070 - 1	#	4	#						
	2.2	3	10.5	2	ODE - 3 - 2 2 0105 - 1	#	4	#						
	4	5	15.3	3	ODE - 3 - 3 2 0153 - 1	0	4	#						
200–240V ± 10% 3 Phase Input	0.37	0.5	2.3	1	ODE - 3 - 1 2 0023 - 3	0	1	#						
	0.75	1	4.3	1	ODE - 3 - 1 2 0043 - 3	0	1	#						
	1.5	2	7	1	ODE - 3 - 1 2 0070 - 3	0	1	#						
	1.5	2	7	2	ODE - 3 - 2 2 0070 - 3	#	4	#						
	2.2	3	10.5	2	ODE - 3 - 2 2 0105 - 3	#	4	#						
	4	5	18	3	ODE - 3 - 3 2 0180 - 3	#	4	#						
	5.5	7.5	24	3	ODE - 3 - 3 2 0240 - 3	#	4	#						
	7.5	10	30	4	ODE - 3 - 4 2 0300 - 3	#	4	#						
	11	15	46	4	ODE - 3 - 4 2 0460 - 3	#	4	#						
	15	20	61	5	ODE - 3 - 5 2 0610 - 3	F	4	2						
18.5	25	72	5	ODE - 3 - 5 2 0720 - 3	F	4	2							
380–480V ± 10% 3 Phase Input	0.75	1	2.2	1	ODE - 3 - 1 4 0022 - 3	#	1	#						
	1.5	2	4.1	1	ODE - 3 - 1 4 0041 - 3	#	1	#						
	1.5	2	4.1	2	ODE - 3 - 2 4 0041 - 3	#	4	#						
	2.2	3	5.8	2	ODE - 3 - 2 4 0058 - 3	#	4	#						
	4	5	9.5	2	ODE - 3 - 2 4 0095 - 3	#	4	#						
	5.5	7.5	14	3	ODE - 3 - 3 4 0140 - 3	#	4	#						
	7.5	10	18	3	ODE - 3 - 3 4 0180 - 3	#	4	#						
	11	15	24	3	ODE - 3 - 3 4 0240 - 3	#	4	#						
	15	20	30	4	ODE - 3 - 4 4 0300 - 3	#	4	#						
	18.5	25	39	4	ODE - 3 - 4 4 0390 - 3	#	4	#						
	22	30	46	4	ODE - 3 - 4 4 0460 - 3	#	4	#						
	30	40	61	5	ODE - 3 - 5 4 0610 - 3	F	4	2						
37	50	72	5	ODE - 3 - 5 4 0720 - 3	F	4	2							

Replace # in model code with colour-coded option

### Enclosure Types

**A** **IP66 Outdoor Use Non-switched**

**B** **IP66 Outdoor Use Switched**

**2** **IP20**

### EMC Filter

**F** Internal EMC Filter

**0** No Internal EMC Filter

### IP20

Size	1	2	3	4	5
mm Height	173	221	261	420	486
mm Width	83	110	131	171	222
mm Depth	123	150	175	212	226
kg Weight	1.0	1.7	3.2	9.1	18.1
Fixings	4xM5	4xM5	4xM5	4xM8	4xM8

### IP66

Size	1	2	3	4
mm Height	232	257	310	360
mm Width	161	188	211	240
mm Depth	162	182	235	271
kg Weight	2.3	3.5	6.6	9.5
Fixings	4xM4	4xM4	4xM4	4xM4

## Drive Specification

Input Ratings	Supply Voltage	110 – 115V ± 10% 200 – 240V ± 10% 380 – 480V ± 10%	Programming	Keypad	Built-in keypad as standard Optional remote mountable keypad	I/O Specification	Power Supply	24 Volt DC, 100mA, Short Circuit Protected 10 Volt DC, 10mA for Potentiometer	
	Supply Frequency	48 – 62Hz		Display	7 Segment LED		Programmable Inputs	4 Total 2 Digital 2 Analog / Digital selectable	
	Displacement Power Factor	> 0.98		PC	OptiTools Studio		Digital Inputs	8 – 30 Volt DC, internal or external supply Response time < 4ms	
	Phase Imbalance	3% Maximum allowed		Control Specification	Control Method		Sensorless Vector Speed Control PM Vector Control BLDC Control Synchronous Reluctance	Analog Inputs	Resolution: 12 bits Response time: < 4ms Accuracy: ± 2% full scale Parameter adjustable scaling and offset
	Inrush Current	< rated current			PWM Frequency		4–32kHz Effective	Programmable Outputs	2 Total 1 Analog / Digital 1 Relay
	Power Cycles	120 per hour maximum, evenly spaced			Stopping Mode		Ramp to stop: User Adjustable 0.1–600 secs Coast to stop	Relay Outputs	Maximum Voltage: 250 VAC, 30 VDC Switching Current Capacity: 6A AC, 5A DC
Output Ratings	Output Power	110V 1 Ph Input: 0.5–1.5HP (230V 3 Ph Output) 230V 1 Ph Input: 0.37–4kW (0.5–5HP) 230V 3 Ph Input: 0.37–18.5kW (0.5–25HP) 400V 3 Ph Input: 0.75–37kW 460V 3 Ph Input: 1–50HP	Braking		Motor Flux Braking Built-in braking transistor (not frame size 1)	Analog Outputs	0 to 10 Volt		
	Overload Capacity	150% for 60 Seconds 175% for 2.5 seconds	Skip Frequency	Single point, user adjustable	Application Features	PI Control	Internal PI Controller Standby / Sleep Function		
	Output Frequency	0 – 500Hz, 0.1Hz resolution	Setpoint Control	Analog Signal		0 to 10 Volts 10 to 0 Volts 0 to 20mA 20 to 0mA 4 to 20mA 20 to 4mA	Fire Mode	Bidirectional Selectable Speed Setpoint (Fixed / PI / Analog / Fieldbus)	
	Acceleration Time	0.01 – 600 seconds		Digital	Motorised Potentiometer (Keypad) Modbus RTU CANopen EtherNet/IP	Maintenance & Diagnostics	Fault Memory	Last 4 Trips stored with time stamp	
	Deceleration Time	0.01 – 600 seconds		Fieldbus	Built-in		CANopen 125–1000 kbps Modbus RTU 9.6–115.2 kbps selectable	Data Logging	Logging of data prior to trip for diagnostic purposes: Output Current Drive Temperature DC Bus Voltage
	Typical Efficiency	> 98%	Ambient Conditions		Temperature	Storage: –40 to 60°C Operating: –20 to 50°C	Monitoring	Hours Run Meter	
Enclosure	Ingress Protection	IP20, IP66		Altitude		Up to 1000m ASL without derating Up to 2000m maximum UL approved Up to 4000m maximum (non UL)	Standards Compliance	Low Voltage Directive	Adjustable speed electrical power drive systems. EMC requirements
				Humidity		95% Max, non condensing		EMC Directive	2014/30/EU Cat C1 according to EN61800-3:2004
			Vibration	Conforms to EN61800-5-1	Machinery Directive	2006/42/EC			
Enclosure	Ingress Protection	IP20, IP66	Temperature	Storage: –40 to 60°C Operating: –20 to 50°C	Conformance	CE, UL, RCM			
					Environmental Class	Conformal Coated PCBs. Suitable for use in the following environments: IP20: 3C2, 3S2 IP66: 3C3, 3S3			



# OPTIDRIVE™



For Single Phase Motors

IP20

IP66

Up to 1.1kW

Single Phase Motor Control for PSC & Shaded-Pole Motors

## Key Features

- ✓ 110–115V and 200–240V models
- ✓ Small mechanical envelope
- ✓ Rugged industrial operation
- ✓ Fast setup, and simple operation with 14 basic parameters
- ✓ Unique motor control strategy optimised for single phase motors
- ✓ Motor current and rpm indication
- ✓ Built in PI control, EMC filter (C1) & brake chopper
- ✓ Application macros for industrial, fan and pump operation
- ✓ Bluetooth® connectivity

**Modbus RTU**  
**CAN**

on-board as standard

150% overload for 60 secs  
(175% for 2 secs)



Pump control in swimming pools & spas



Simple airflow control

## Dedicated to Single Phase Motor Control

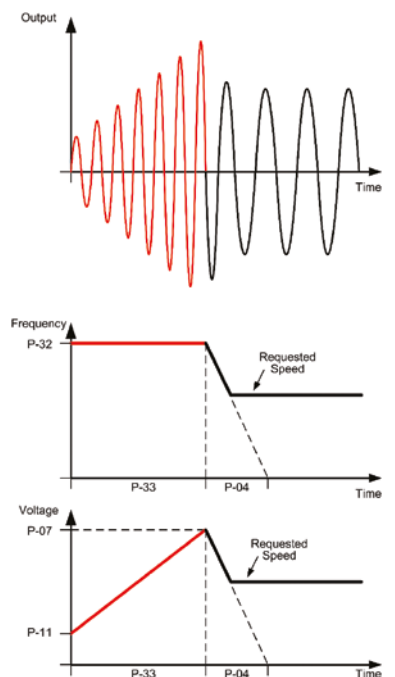
Designed to be cost effective and easy to use, the Optidrive E3 for Single Phase Motors is for use with PSC (Permanent Split Capacitor) or Shaded-Pole Single Phase induction motors.

Optidrive E3 for Single Phase Motors uses a revolutionary motor control strategy to achieve reliable intelligent starting of single phase motors.

- Removes the need for 3 phase supply wiring
- Provides the same performance features as the 3 phase Optidrive E3
- The ideal energy saving solution where high starting torque is not required — typically including fans, blowers, centrifugal pumps, fume extractors and air flow controllers

## Special Boost Phase

To ensure reliable starting of single phase motors, the drive initially ramps the motor voltage up to rated voltage whilst maintaining a fixed starting frequency, before reducing the frequency and voltage to the desired operating point.



# OPTIDRIVE™ E<sup>3</sup>

For Single Phase Motors

Model Code	Product Family	Generation	Frame Size	Voltage Code	Capacity	Supply Phases	EMC Filter	Brake Transistor	Enclosure Type	Single Phase Output
110-115V ± 10% 1 Phase Input	0.37	0.5	7	1	ODE - 3 - 1 1 0070 - 1	# 1	# -	01		
	0.55	0.75	10.5	2	ODE - 3 - 2 1 0105 - 1	# 4	# -	01		
200-240V ± 10% 1 Phase Input	0.37	0.5	4.3	1	ODE - 3 - 1 2 0043 - 1	# 1	# -	01		
	0.75	1	7	1	ODE - 3 - 1 2 0070 - 1	# 1	# -	01		
	1.1	1.5	10.5	2	ODE - 3 - 2 2 0105 - 1	# 4	# -	01		

Replace # in model code with colour-coded option

### Enclosure Types



### IP20

Size	1	2
mm Height	173	221
mm Width	83	110
mm Depth	123	150
kg Weight	1.0	1.7
Fixings	4xM5	4xM5

### IP66

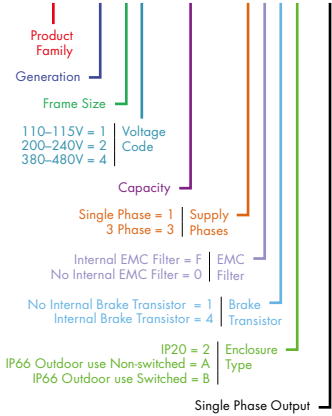
Size	1	2
mm Height	232	257
mm Width	161	188
mm Depth	162	182
kg Weight	2.3	3.5
Fixings	4xM4	4xM4

### EMC Filter

F	Internal EMC Filter
0	No Internal EMC Filter

### Model Code Guide:

ODE-3-120043-3F12-01



## Drive Specification

Input Ratings	Supply Voltage	110 – 115V ± 10% 200 – 240V ± 10%	Control Specification	Control Method	V/F Voltage Energy Optimised V/F	Application Features	PI Control	Internal PI Controller Standby / Sleep Function	
	Supply Frequency	48 – 62Hz		PWM Frequency	4–32kHz Effective		Fire Mode	Selectable Speed Setpoint (Fixed / PI / Analog / Fieldbus)	
	Displacement Power Factor	> 0.98		Stopping Mode	Ramp to stop: User Adjustable 0.1–600 secs Coast to stop		Maintenance & Diagnostics	Fault Memory	Last 4 Trips stored with time stamp
	Phase Imbalance	3% Maximum allowed		Braking	Motor Flux Braking Built-in braking transistor (frame size 2)			Data Logging	Logging of data prior to trip for diagnostic purposes: Output Current Drive Temperature DC Bus Voltage
	Inrush Current	< rated current		Skip Frequency	Single point, user adjustable		Monitoring	Hours Run Meter	
	Power Cycles	120 per hour maximum, evenly spaced		Setpoint Control	Analog Signal		0 to 10 Volts 10 to 0 Volts 0 to 20mA 20 to 0mA 4 to 20mA 20 to 4mA	Standards Compliance	Low Voltage Directive
Output Ratings	Output Power	110V 1 Ph Input: 0.5–0.75HP 230V 1 Ph Input: 0.37–1.1kW (0.5–1.5HP)	Digital		Motorised Potentiometer (Keypad) Modbus RTU CANopen EtherNet/IP	EMC Directive	2014/30/EU 230V 1Ph, Filtered Units : Cat C1 according to EN61800-3:2004		
	Overload Capacity	150% for 60 Seconds 175% for 2.5 seconds	Fieldbus		Built-in	CANopen	125–1000 kbps		
	Output Frequency	0 – 500Hz, 0.1Hz resolution				Modbus RTU	9.6–115.2 kbps selectable		
	Acceleration Time	0.01 – 600 seconds	I/O Specification	Power Supply	24 Volt DC, 100mA, Short Circuit Protected 10 Volt DC, 10mA for Potentiometer	Machinery Directive	2006/42/EC		
	Deceleration Time	0.01 – 600 seconds		Programmable Inputs	4 Total 2 Digital 2 Analog / Digital selectable	Conformance	CE, UL, RCM		
Typical Efficiency	> 98%	Digital Inputs	8 – 30 Volt DC, internal or external supply Response time < 4ms	Relay Outputs	Environmental Class	Conformal Coated PCBs. Suitable for use in the following environments: IP20: 3C2, 3S2 IP66: 3C3, 3S3			
Ambient Conditions	Temperature	Storage: –40 to 60°C Operating: –20 to 50°C	Analog Inputs		Resolution: 12 bits Response time: < 4ms Accuracy: ± 2% full scale Parameter adjustable scaling and offset	Programmable Outputs	2 Total 1 Analog / Digital 1 Relay		
	Altitude	Up to 1000m ASL without derating Up to 2000m maximum UL approved Up to 4000m maximum (non UL)	Relay Outputs		Maximum Voltage: 250 VAC, 30 VDC Switching Current Capacity: 6A AC, 5A DC				
	Humidity	95% Max, non condensing		Analog Outputs	0 to 10 Volt				
Enclosure	Ingress Protection	IP20, IP66	Programming	Keypad	Built-in keypad as standard Optional remote mountable keypad				
	Programming	Keypad		7 Segment LED					
Display		OptiTools Studio							

# Options & Accessories

## Optistick Smart



**Optistick Smart**      **OPT-3-STICK-IN**  
Rapid Commissioning Tool

- Allows copying, backup and restore of drive parameters
- Provides Bluetooth interface to a PC running OptiTools Studio or the OptiTools Mobile app on a smartphone
- Onboard NFC (Near Field Communication) for rapid data transfer

## Remote Keypads



**Optipad**      **OPT-3-OPPAD-IN**  
Remote Keypad & TFT Display

**Optiport 2**      **OPT-2-OPORT-IN**  
Remote Keypad & LED Display

## RJ45 Accessories



Ideal for simple and fast connection of Modbus RTU/CAN networks

- OPT-J4505-IN**      RJ45 Cable 0.5m
- OPT-J4510-IN**      RJ45 Cable 1.0m
- OPT-J4530-IN**      RJ45 Cable 3.0m
- OPT-J455P-IN**      RS485 3 Way Data Cable Splitter RJ45

## EtherNet Module



**EtherNet Module**      **OPT-2-ETHEG-IN**

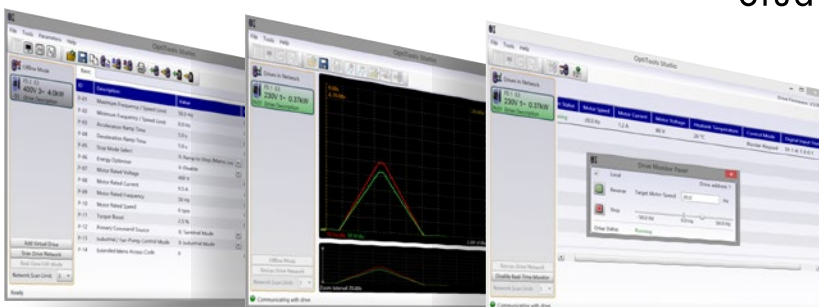
- ODVA compliant EtherNet/IP Modbus Translator Device
- Compatible with all drive platforms: P2, E3 & Eco
- Integrated network switch: simplifying network architecture
- Compatible with RSLogix and CoDeSys PLCs

## External EMC Filters, Input Chokes & Output Filters are available

See [www.invertekdrives.com](http://www.invertekdrives.com) for details



## OptiTools Studio



Drive commissioning and parameter backup

- Real-time parameter editing
- Drive network communication
- Parameter upload, download and storage
- Simple PLC function programming
- Real-time scope function and data logging
- Real-time data monitoring

**Compatible with:**  
Windows Vista & Windows 7, Windows 8, Windows 8.1 & Windows 10

# Proven Worldwide in Low Power Applications



Cooling loop for solar energy research  
**Solar Tech Lab, Italy**

Chain wax development for Team Sky cycling team  
**Muc-Off, UK**

Business-critical climate control for commercial horticulturist  
**Hatziminas Flowers, Greece**

Chilled water pump control predicted to save AED 12385 per year  
**Al Jahili Fort, UAE**

Efficient water circulation gives energy savings of 60% per annum  
**Leisure World, Australia**

Pallet handling in **UK**

Olive oil decanting in **Greece**

Seed processing in **Netherlands**

Pizza making in **Belgium**

Chamfering machines in **Italy**

Machine tool OEM in **UK**

Chemical fume removal in **Singapore**

Sawmill optimisation in **UK**

Precision polishing in **Switzerland**

See [www.inverterdrives.com/solutions](http://www.inverterdrives.com/solutions) for full case studies





## Optidrive E3

### ✓ Low Power Applications

Dedicated to low power applications, Optidrive E3 combines innovative technology, reliability, robustness and ease of use in a range of compact IP20 & IP66 enclosures.

### ✓ Simple Commissioning

14 parameter basic setup. Default settings suitable for most applications. Contactor style connection for simple wiring.

### ✓ Optidrive E3 IP66

Environmentally protected, IP66 rated models can be mounted directly on your processing equipment.



### ✓ Washdown Ready

With a sealed ABS enclosure and corrosion resistant heatsink, Optidrive E3 IP66 models are ideal for high-pressure washdown applications.

### ✓ On-drive Control

IP66 models feature optional, convenient controls for speed control, REV/OFF/FWD and Power ON/OFF, complete with safety lock.

### ✓ Single Phase Motor Control

Optidrive E3 for Single Phase Motors provides accurate speed control of single phase PSC or shaded pole motors. Special boost phase ensures reliable starting, initially ramping the motor voltage up to rated voltage whilst maintaining a fixed starting frequency, before reducing the frequency and voltage to the desired operating point.



## About Invertek Drives

- ✓ Sales, service & application support in over 80 countries
- ✓ World-class production, innovation & training facilities at UK headquarters
- ✓ Global assembly cells controlled by cloud-based manufacturing database
- ✓ ISO 14001 environmental & ISO 9001 quality management systems



[www.invertekdrives.com/optidrive-e3](http://www.invertekdrives.com/optidrive-e3)

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