

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/NEMA 4X

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 50HP/37kW/46A

- ✓ Easy to use
- ✓ Compact & robust

See **Page 4**



Take a closer look at the stunning Optidrive E3



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/NEMA 4X

Up to 30HP/22kW/46A

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

See Page 5

Now Available

Single Phase Input
Up to 10HP/7.5kW/30A



Key Features

- ✓ Internal Category C1 EMC filter
- ✓ Internal PI control
- ✓ Internal brake chopper
- ✓ Dual analogue inputs
- ✓ Operates up to 122°F/50°C
- ✓ Bluetooth® connectivity
- ✓ Option for control of single phase motors (see Page 8)

Modbus RTU
CAN

On-board as standard

EtherNet/IP™
Modbus TCP

Internal option available on
NEMA 4X units only

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



IP20

Up to 50HP/37kW/46A

Suitable for mounting
in a cabinet

Compact, robust
and reliable general
purpose drive

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 122°F/50°C

Modbus RTU CAN

On-board as standard
Optional external
Ethernet IP or Modbus TCP Modules
available

Incredibly Easy to Use

- ✓ Built in PI control, EMC filter (C1)
& brake chopper (Size 2~4)
- ✓ Application macros for industrial,
fan and pump operation
- ✓  Bluetooth® connectivity

OPTISTICK

Rapid parameter
cloning and
Bluetooth PC
interface

See Page 10

Dual analogue inputs

Motor supply
connects at base

Controls Multiple Motor Types

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

5 sizes cover global
supply ratings

Simply Power Up

Optidrive E3 provides precise motor control
and energy savings using the factory
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.



OPTIDRIVE™ E³

IP66/NEMA 4X Outdoor

Up to 30HP/22kW/46A

Coated Heatsink as Standard

Ideal for 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.

Conformal coating as standard

Switched or non-switched

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 -4°F (-20°C).

Dust-Tight Design

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

Washdown Ready Polycarbonate

With a sealed polycarbonate enclosure and corrosion resistant heatsink, the Optidrive E3 IP66/NEMA 4X 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:

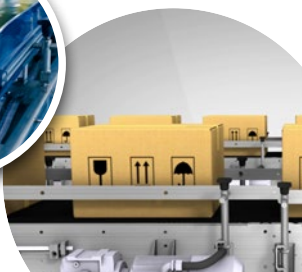
- ✓ Conveyors
- ✓ Mixers
- ✓ Treadmills

Sensorless Vector provides high starting torque and excellent speed regulation

IP20 panel mount units or **IP66/NEMA 4X** for direct machine mounting



Rapid parameter cloning using **OPTISTICK**



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:

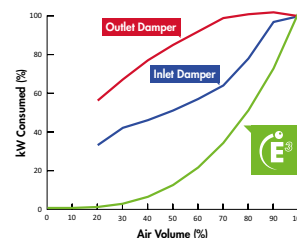
- ✓ Air Handling Units
- ✓ Ventilation Fans
- ✓ Circulating Fans
- ✓ Air Curtains
- ✓ Kitchen Extract



- 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.



Modbus RTU
CAN

On-board as standard

EtherNet/IP™
Modbus TCP

Internal option available on NEMA 4X units only

How much energy could you save?

Estimate potential energy savings, CO₂ emissions and financial savings for your application with the Invertek Drives **Energy Savings Calculator** app.



www.invertekdrives.com/calculator



				Model Code	Product Family	Generation	Frame Size	Voltage Code	Capacity	Supply Phases	EMC Filter	Brake Transistor	Enclosure Type
Input 1Ø 110-115V+/-10% Output (Motor) 3Ø 200-240V	kW	HP	Amps	Size	ODE - 3 - 1 1 0023 - 1	0	1	#					
	0.37	0.5	2.3	1	ODE - 3 - 1 1 0043 - 1	0	1	#					
	0.75	1	4.3	1	ODE - 3 - 2 1 0058 - 1	0	4	#					
Input 1Ø 200-240V+/-10% Output (Motor) 3Ø 200-240V	0.37	0.5	2.3	1	ODE - 3 - 1 2 0023 - 1	F	1	#					
	0.75	1	4.3	1	ODE - 3 - 1 2 0043 - 1	F	1	#					
	1.5	2	7	1	ODE - 3 - 1 2 0070 - 1	F	1	#					
	1.5	2	7	2	ODE - 3 - 2 2 0070 - 1	F	4	#					
	2.2	3	10.5	2	ODE - 3 - 2 2 0105 - 1	F	4	#					
	4	5	15.3	3	ODE - 3 - 3 2 0153 - 1	F	4	#					
	4	5	15.3	3	ODE - 3 - 3 2 0153 - 1	O	4	2					
	5.5	7.5	24	4	ODE - 3 - 4 2 0240 - 1	O	4	#					
Input 3Ø 200-240V+/-10% Output (Motor) 3Ø 200-240V	0.37	0.5	2.3	1	ODE - 3 - 1 2 0023 - 3	O	1	#					
	0.75	1	4.3	1	ODE - 3 - 1 2 0043 - 3	O	1	#					
	1.5	2	7	1	ODE - 3 - 1 2 0070 - 3	O	1	#					
	1.5	2	7	2	ODE - 3 - 2 2 0070 - 3	F	4	#					
	2.2	3	10.5	2	ODE - 3 - 2 2 0105 - 3	F	4	#					
	4	5	18	3	ODE - 3 - 3 2 0180 - 3	F	4	#					
	5.5	7.5	24	3	ODE - 3 - 3 2 0240 - 3	F	4	#					
	7.5	10	30	4	ODE - 3 - 4 2 0300 - 3	F	4	#					
Input 3Ø 380-480V+/-10% Output (Motor) 3Ø 380-480V	0.37	0.5	1.2	1	ODE - 3 - 1 4 0012 - 3	F	1	#					
	0.75	1	2.2	1	ODE - 3 - 1 4 0022 - 3	F	1	#					
	1.5	2	4.1	1	ODE - 3 - 1 4 0041 - 3	F	1	#					
	1.5	2	4.1	2	ODE - 3 - 2 4 0041 - 3	F	4	#					
	2.2	3	5.8	2	ODE - 3 - 2 4 0058 - 3	F	4	#					
	4	5	9.5	2	ODE - 3 - 2 4 0095 - 3	F	4	#					
	5.5	7.5	14	3	ODE - 3 - 3 4 0140 - 3	F	4	#					
	7.5	10	18	3	ODE - 3 - 3 4 0180 - 3	F	4	#					
Input 3Ø 380-480V+/-10% Output (Motor) 3Ø 380-480V	11	15	24	3	ODE - 3 - 3 4 0240 - 3	F	4	#					
	15	20	30	4	ODE - 3 - 4 4 0300 - 3	F	4	#					
	18.5	25	39	4	ODE - 3 - 4 4 0390 - 3	F	4	#					
	22	30	46	4	ODE - 3 - 4 4 0460 - 3	F	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					
					ODE - 3 - 5 4 0720 - 3	F	4	2					
					ODE - 3 - 5 4 0720 - 3	F	4	2					

Replace # in model code with colour-coded option:

Enclosure Types



IP66/NEMA 4X
Outdoor
Non-switched



IP66/NEMA 4X
Outdoor
Switched



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	1.7	3.2	9.1	18.1
Fixings	4xM5	4xM5	4xM5	4xM8	4xM8

IP66/NEMA 4X Outdoor

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	6xM4

Drive Specification

Input Ratings	Supply Voltage	110 – 115V ± 10% 200 – 240V ± 10% 380 – 480V ± 10%
	Supply Frequency	48 – 62Hz
	Displacement Power Factor	> 0.98
Output Ratings	Phase Imbalance	3% Maximum allowed
	Inrush Current	< rated current
	Power Cycles	120 per hour maximum, evenly spaced
	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: 0.37–11kW (0.5–15HP) 400V 3 Ph Input: 0.75–22kW 460V 3 Ph Input: 1–30HP
	Overload Capacity	150% for 60 Seconds 175% for 2.5 seconds
Ambient Conditions	Output Frequency	0 – 500Hz, 0.1Hz resolution
	Acceleration Time	0.01 – 600 seconds
	Deceleration Time	0.01 – 600 seconds
	Typical Efficiency	> 98%
	Temperature	Storage: –40 to 60°C Operating: –10 to 50°C (14 to 122°F) IP20 –20 to 40°C (–14 to 104°F) IP66
Enclosure	Altitude	Up to 1000m ASL without derating Up to 2000m maximum UL approved Up to 4000m maximum (non UL)
	Humidity	95% Max, non condensing
	Vibration	Conforms to EN61800-5-1
Ingress Protection	IP20, IP66/NEMA 4X	
Programming	Keypad	Built-in keypad as standard Optional remote mountable keypad
	Display	7 Segment LED
	PC	OptiTools Studio
Control Specification	Control Method	Sensorless Vector Speed Control PM Vector Control BLDC Control Synchronous Reluctance
	PWM Frequency	4–32kHz Effective
	Stopping Mode	Ramp to stop: User Adjustable 0.1–600 secs Coast to stop
	Braking	Motor Flux Braking Built-in braking transistor (not frame size 1)
	Skip Frequency	Single point, user adjustable
Fieldbus	Setpoint Control	Analog Signal 0 to 10 Volts 10 to 0 Volts 0 to 20mA 20 to 0mA 4 to 20mA 20 to 4mA
	Digital	Motorised Potentiometer (Keypad) Modbus RTU CANopen EtherNet/IP
	Built-in	CANopen 125–1000 kbps Modbus RTU 9.6–115.2 kbps selectable
Standards Compliance	Optional Built-in Modules IP66/NEMA4X Only	Ethernet IP (factory fit, consult factory for details) Modbus TCP (factory fit, consult factory for details)
	Optional External Modules IP20 Only (see page 10)	Ethernet IP Modbus TCP
I/O Specification	Power Supply	24 Volt DC, 100mA, Short Circuit Protected 10 Volt DC, 10mA for Potentiometer
	Programmable Inputs	4 Total 2 Digital 2 Analog / Digital selectable
	Digital Inputs	8 – 30 Volt DC, internal or external supply Response time < 4ms
	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
Application Features	Relay Outputs	Maximum Voltage: 250 VAC, 30 VDC Switching Current Capacity: 6A AC, 5A DC
	Analog Outputs	0 to 10 Volt
	PI Control	Internal PI Controller Standby / Sleep Function
Maintenance & Diagnostics	Fire Mode	Bidirectional Selectable Speed Setpoint (Fixed / PI / Analog / Fieldbus)
	Fault Memory	Last 4 Trips stored with time stamp
	Data Logging	Logging of data prior to trip for diagnostic purposes: Output Current Drive Temperature DC Bus Voltage
Monitoring	Hours Run Meter	
Low Voltage Directive	Adjustable speed electrical power drive systems. EMC requirements	
EMC Directive	2014/30/EU Cat C1 according to EN61800-3:2004	
Machinery Directive	2006/42/EC	
Conformance	CE, UL, RCM	

Single Phase Motor Control for Permanent Split Capacitor & Shaded-Pole Motors

IP20

IP66/NEMA 4X

Up to 1.5HP/1.1kW

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)



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.

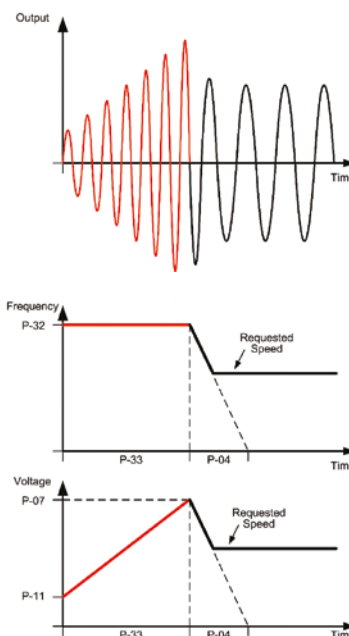
- Removes the need for 3 phase supply wiring
- Provides the same performance features as the 3 phase Optidrive E3
- The ideal energy saving solution where high starting torque is not required — typically including fans, blowers, centrifugal pumps, fume extractors and air flow controllers

Pump control in
swimming pools & spas



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™ E³

For Single Phase Motors

	kW	HP	Amps	Size	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/Output	0.37 0.55	0.5 0.75	7 10.5	1 2	ODE - 3 - 1 1 0070 - 1	#	1	#	-01	ODE - 3 - 2 1 0105 - 1	#	4	#	-01	
200–240V ± 10% 1 Phase Input/Output	0.37 0.75 1.1	0.5 1 1.5	4.3 7 10.5	1 1 2	ODE - 3 - 1 2 0043 - 1	#	1	#	-01	ODE - 3 - 1 2 0070 - 1	#	1	#	-01	
					ODE - 3 - 2 2 0105 - 1	#	4	#	-01						

Replace # in model code with colour-coded option:

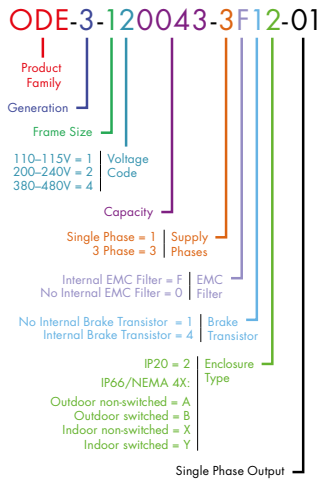
Enclosure Types



EMC Filter

F Internal EMC Filter	0 No Internal EMC Filter
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Model Code Guide:



Size	1	2
mm Height	173	221
mm Width	83	110
mm Depth	123	150
kg Weight	1	1.7
Fixings	4 x M5	4 x M5

Size	1	2
mm Height	232	257
mm Width	161	188
mm Depth	162	182
kg Weight	2.3	3.5
Fixings	4 x M4	4 x M4

Size	1	2
mm Height	232	257
mm Width	161	188
mm Depth	179	187
kg Weight	3.1	4.1
Fixings	4 x M4	4 x M4

Drive Specification

Input Ratings	Supply Voltage	110 – 115V ± 10% 200 – 240V ± 10%
	Supply Frequency	48 – 62Hz
Output Ratings	Displacement Power Factor	> 0.98
	Phase Imbalance	3% Maximum allowed
	Inrush Current	< rated current
	Power Cycles	120 per hour maximum, evenly spaced
Output Ratings	Output Power	110V 1 Ph Input: 0.5–0.75HP 230V 1 Ph Input: 0.37–1.1kW (0.5–1.5HP)
	Overload Capacity	150% for 60 Seconds 175% for 2.5 seconds
	Output Frequency	0 – 500Hz, 0.1Hz resolution
	Acceleration Time	0.01 – 600 seconds
	Deceleration Time	0.01 – 600 seconds
	Typical Efficiency	> 98%
	Ambient Conditions	Storage: –40 to 60°C Operating: –10 to 50°C (14 to 122°F) IP20 –20 to 40°C (–14 to 104°F) IP66
	Altitude	Up to 1000m ASL without derating Up to 2000m maximum UL approved Up to 4000m maximum (non UL)
Enclosure	Humidity	95% Max, non condensing
	Vibration	Conforms to EN61800-5-1
Ingress Protection	IP20, IP66/NEMA 4X	
Programming	Keypad	Built-in keypad as standard Optional remote mountable keypad
	Display	7 Segment LED
	PC	OptiTools Studio
Control Specification	Control Method	V/F Voltage Energy Optimised V/F
	PWM Frequency	4–32kHz Effective
	Ramp to stop: User Adjustable	0.1–600 secs Coast to stop
	Stopping Mode	Motor Flux Braking Built-in braking transistor (frame size 2)
	Braking	Single point, user adjustable
	Skip Frequency	
Fieldbus	Built-in	CANopen 125–1000 kbps Modbus RTU 9.6–115.2 kbps selectable
	Optional Built-in Modules	Ethernet IP (factory fit, consult factory for details) Modbus TCP (factory fit, consult factory for details)
	Optional External Modules	Ethernet IP Modbus TCP
I/O Specification	Power Supply	24 Volt DC, 100mA, Short Circuit Protected 10 Volt DC, 10mA for Potentiometer
	Programmable Inputs	4 Total 2 Digital 2 Analog / Digital selectable
	Digital Inputs	8 – 30 Volt DC, internal or external supply Response time < 4ms
	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
Application Features	Relay Outputs	Maximum Voltage: 250 VAC, 30 VDC Switching Current Capacity: 6A AC, 5A DC
	Analog Outputs	0 to 10 Volt
	PI Control	Internal PI Controller Standby / Sleep Function
Maintenance & Diagnostics	Fire Mode	Selectable Speed Setpoint (Fixed / PI / Analog / Fieldbus)
	Fault Memory	Last 4 Trips stored with time stamp
Standards Compliance	Data Logging	Logging of data prior to trip for diagnostic purposes: Output Current Drive Temperature DC Bus Voltage
	Monitoring	Hours Run Meter
Standards Compliance	Low Voltage Directive	Adjustable speed electrical power drive systems. EMC requirements
	EMC Directive	2014/30/EU 230V 1Ph, Filtered Units : Cat C1 according to EN61800-3:2004
	Machinery Directive	2006/42/EC
	Conformance	CE, UL, RCM

Options & Accessories

OPTISTICK Smart



Optistick

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



Optiport 2

OPT-2-OPORT-IN

Remote Keypad & LED Display

PC Connection Kit



OPT-2-USB-OBUS is a dedicated PC connection kit for all Optidrive models, allowing direct connection from the PC USB port to the drive RJ45 communication connection for use with Optitools studio software.

OPT-2-USB485-OBUS

EtherNet Module



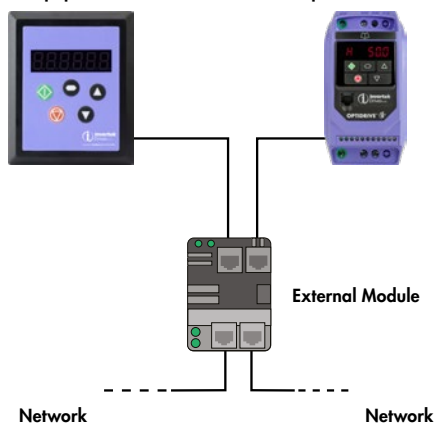
EtherNet Module

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

Optiport 2

Optidrive E3 IP20



Modbus TCP Module

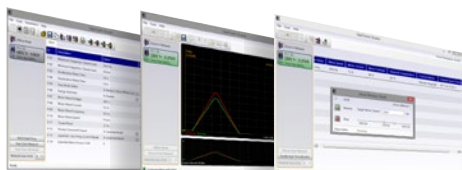


Modbus TCP Module

OPT-3-MTPEG-IN

- Compatible with all drive platforms: P2, E3 & Eco
- Integrated network switch: simplifying network architecture

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 XP, Windows Vista & Windows 7, Windows 8, Windows 8.1 & Windows 10

External EMC Filters, Input Chokes, Output Filters & Dynamic Braking Resistors are available



See www.invertekdrives.com for details

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**

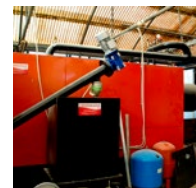
Machine tool OEM in **UK**

Chemical fume removal in
Singapore

Sawmill optimisation in **UK**

Precision polishing in **Switzerland**

See www.inverterdrives.com/solutions for full case studies



Optidrive E3

✓ Low Power Applications

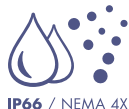
Dedicated to low power applications, Optidrive E3 combines innovative technology, reliability, robustness and ease of use in a range of compact IP20 & IP66/NEMA 4X enclosures.

✓ Simple Commissioning

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

✓ Optidrive E3 IP66/NEMA 4X

Environmentally protected, IP66/NEMA 4X rated models can be mounted directly on your processing equipment.



✓ Washdown Ready Polycarbonate

With a sealed polycarbonate enclosure and corrosion resistant heatsink, Optidrive E3 IP66/NEMA 4X models are ideal for high-pressure washdown applications.

✓ On-drive Control

IP66/NEMA 4X 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 Inverter 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.inverterdrives.com/optidrive-e3

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