



OPTIDRIVE E2

AC Variable Speed Drive
0.5HP -1.5HP

110/120V single phase input
230V Three phase output

General purpose drive with modbus communication

Innovative and compact the Optidrive E2 range combines good looks with robustness, reliability and easy to use performance.

The product is dedicated to low power applications where total costs are ultra-competitive, including:

- Low installation costs
- Low commissioning costs
- Low technical support costs



Optidrive E2 has only 14 standard parameters to adjust in its basic form. They could not be easier or quicker to get started with.

Key Benefits >>

- Small mechanical envelope
- Rugged industrial 50 C ambient rating for hot and tough applications
- Simple mechanical & electrical installation
- Simple operation, powerful features easy to use
- Fast setup, factory default settings ok for most applications, only 14 basic parameters
- Motor current and rpm indication
- 150% overload for 60 secs (175% for 2 secs)
- Keypad control

OPTISTICK

For fast accurate repeat drive programming

Simply insert Optistick into the RJ45 slot on the face of the Optidrive E2:

- Upload/Download buttons allow for fast copying of parameters between drives
- Infa red communications capability provides remote control convenience
- Can be programmed with PDA or Smart phone

EMC and Varistor disconnect



Specification		OPTIDRIVE E2
Output ratings	Overload Capacity	150% for 60 secs 175% for 2 secs
	Frequency	0...500Hz
Input Ratings	Frequency	48 - 62Hz
	Voltage	110 - 115 + / - 10% 1 Phase (0.5 - 1.5HP)
Ambient Conditions	Temperature	Operating: -10 to 50°C Max; Storage : -40 to +60°C
	Altitude	0 - 200m, derate 1% per 100m above 1000m
	Ingress Protection	IP 20 / Optional IP55
Programming	Keypad	Yes
	PC	Yes
	PDA	Yes
	Smartphone	Yes
Control Specification	Control Method	Voltage Vector
	PWM Frequency	4...32kHz (effective)
	V/Hz ratio	Linear
	Boost	Yes
	Stop Mode	Coast / Ramp / DC Brake
	Capacity	100% Drive Rated Power continuously
	Skip Frequency	One Point, adjustable frequency band
	Frequency setpoint control	0...10 VDC 20...4mA / 4...20mA / 0...20mA Digital - Keypad ModBus
	Pre-set speeds	4
	PI Control	Yes
	Spin Start	Yes
	Acceleration	0..600 sec
	Deceleration	(2ramps) 0..600 sec
Programmable I/O	Input 1	Programmable Digital Input
	Input 2	Programmable Digital Input
	Input 3	User Selectable Analog / Digital Input
	Input 4	User Selectable Analog / Digital Input
	Output 1	Programmable Analog / Digital Output
	Relay 1	Relay Output (30 Vdc 5A, 250 VAC, 6A)
Keypad Display	Operating Display	Output Frequency, Current, Rpm and User Scalable values
	Remote mount	Optional Optiport E2 remote mounting keypad
Protective Functions	Inverter Trip	Over Volatage, Over Current, Under voltage External trip, Motor Overload, Over Temperature Short Circuited, Earth Fault, Under voltage
	Memory	Last 4 Trips stored
Bus communication	Modbus	Yes
	Profibus DP	Via Gateway
	DeviceNet	Via Gateway
	Rs485 (Optibus)	Standard
Compliance with	EN 61800-3:2004	Adjustable speed electrical power drive systems. EMC requirements

Size 1



Size 2



Size	Height (in)	Width (in)	Depth (in)	Weight (lbs)
1	6.82	3.23	4.85	2.43
2	8.71	4.1	5.91	5.73

110-120V	HP	Output Current (A)	Frame Size
ODE-2-11005-1H012	0.5	2.3	1
ODE-2-11010-1H012	1	4.3	1
ODE-2-21015-1H012	1.5	5.8	2