NEW

OPTIDRIVE™ E3

NEMA 4X / IP66 Outdoor Rated

Enclosed Drives

4 Frame Sizes

↑ 30HP

Machine Mountable

No additional cabinet protection required

Clean Operation

None of the wear or debris associated with gearboxes and belts

Conformal Coating

Enhanced protection and reliability for arduous environments to 3C3 class

- ✓ Dual internal RJ45 ports
- ✓ Built in EtherNet as a factory fit option
- ✓ Withstands UV exposure
- ✓ Washdown ready
- ✓ Dust-tight
- ✓ Easy set up and operation
- ✓ EtherNet/IP, CANopen, Modbus RTU

Now available

EtherNet/IP™

Factory fit, built-in dual port EtherNet/IP interface

Invertek Drives.com

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OPTIDRIVE™ E3

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HP	Amps	Frame	Model Code	Product Family	Generation	Frame Size	Voltage Code	Output Current x 10	Supply Phases	EMC Filter	Brake Transistor	Enclosure Option	List Price Keypad only - Enclosure Type A	List Price Switched Package - Enclosure Type B	EtherNet/IP To order add +EIP to the end of existing part number	List Price Keypad only - Enclosure Type A with factory fit, built-in dual port EtherNet/IP interface	List Price Switched Package - Enclosure Type B with factory fit, built-in dual port EtherNet/IP interface
110 – 115V ± 10% 1 Phase Input																	
0.5	2.3	1	ODE - 3 - 1 1 0023 - 1						0	1	#	$820.00	$1,050.00	+EIP	$1,025.00	$1,255.00
1	4.3	1	ODE - 3 - 1 1 0043 - 1						0	1	#	$915.00	$1,145.00	+EIP	$1,120.00	$1,350.00
1.5	5.8	2	ODE - 3 - 2 1 0058 - 1						0	4	#	$1,200.00	$1,420.00	+EIP	$1,405.00	$1,625.00
200 – 240V ± 10% 1 Phase Input																	
0.5	2.3	1	ODE - 3 - 1 2 0023 - 1						F	1	#	$695.00	$990.00	+EIP	$900.00	$1,195.00
1	4.3	1	ODE - 3 - 1 2 0043 - 1						F	1	#	$780.00	$1,060.00	+EIP	$985.00	$1,265.00
2	7	1	ODE - 3 - 1 2 0070 - 1						F	1	#	$920.00	$1,210.00	+EIP	$1,125.00	$1,415.00
2	7	2	ODE - 3 - 2 2 0070 - 1						F	4	#	$1,050.00	$1,380.00	+EIP	$1,255.00	$1,585.00
3	10.5	2	ODE - 3 - 2 2 0105 - 1						F	4	#	$1,190.00	$1,520.00	+EIP	$1,395.00	$1,725.00
5	15.3	3	ODE - 3 - 3 2 0153 - 1						0	4	#	$2,075.00	$2,585.00	+EIP	$2,280.00	$2,790.00
200 – 240V ± 10% 3 Phase Input																	
0.5	2.3	1	ODE - 3 - 1 2 0023 - 3						0	1	#	$730.00	$910.00	+EIP	$935.00	$1,115.00
1	4.3	1	ODE - 3 - 1 2 0043 - 3						0	1	#	$780.00	$945.00	+EIP	$985.00	$1,150.00
2	7	1	ODE - 3 - 1 2 0070 - 3						0	1	#	$920.00	$1,115.00	+EIP	$1,125.00	$1,320.00
2	7	2	ODE - 3 - 2 2 0070 - 3						F	4	#	$1,100.00	$1,280.00	+EIP	$1,305.00	$1,485.00
3	10.5	2	ODE - 3 - 2 2 0105 - 3						F	4	#	$1,190.00	$1,480.00	+EIP	$1,395.00	$1,685.00
5	18	3	ODE - 3 - 3 2 0180 - 3						F	4	#	$1,480.00	$1,860.00	+EIP	$1,685.00	$2,065.00
7.5	24	3	ODE - 3 - 3 2 0240 - 3						F	4	#	$2,000.00	$2,390.00	+EIP	$2,205.00	$2,595.00
10	30	4	ODE - 3 - 4 2 0300 - 3						F	4	#	$2,510.00	$2,900.00	+EIP	$2,715.00	$3,105.00
15	46	4	ODE - 3 - 4 2 0460 - 3						F	4	#	$3,620.00	$4,440.00	+EIP	$3,825.00	$4,645.00
380 – 480V ± 10% 3 Phase Input																	
0.5	1.2	1	ODE - 3 - 1 4 0012 - 3						F	1	#	$870.00	$1,140.00	+EIP	$1,075.00	$1,345.00
1	2.2	1	ODE - 3 - 1 4 0022 - 3						F	1	#	$930.00	$1,200.00	+EIP	$1,135.00	$1,405.00
2	4.1	1	ODE - 3 - 1 4 0041 - 3						F	1	#	$1,010.00	$1,310.00	+EIP	$1,215.00	$1,515.00
2	4.1	2	ODE - 3 - 2 4 0041 - 3						F	4	#	$1,240.00	$1,470.00	+EIP	$1,445.00	$1,675.00
3	5.8	2	ODE - 3 - 2 4 0058 - 3						F	4	#	$1,250.00	$1,550.00	+EIP	$1,455.00	$1,755.00
5	9.5	2	ODE - 3 - 2 4 0095 - 3						F	4	#	$1,570.00	$1,940.00	+EIP	$1,775.00	$2,145.00
7.5	14	3	ODE - 3 - 3 4 0140 - 3						F	4	#	$1.960.00	$2,340.00	+EIP	$2,165.00	$2,545.00
10	18	3	ODE - 3 - 3 4 0180 - 3						F	4	#	$2,340.00	$2,730.00	+EIP	$2,545.00	$2,935.00
15	24	3	ODE - 3 - 3 4 0240 - 3						F	4	#	$3,520.00	$3,750.00	+EIP	$3,725.00	$3,955.00
20	30	4	ODE - 3 - 4 4 0300 - 3						F	4	#	$4,320.00	$4,810.00	+EIP	$4,525.00	$5,015.00
25	39	4	ODE - 3 - 4 4 0390 - 3						F	4	#	$5,070.00	$5,560.00	+EIP	$5,275.00	$5,765.00
30	46	4	ODE - 3 - 4 4 0460 - 3						F	4	#	$5,810.00	$6,300.00	+EIP	$6,015.00	$6,505.00

Replace # in model code with colour-coded option

Enclosure Types

A
NEMA 4X / IP66 Outdoor Use
Keypad only

B
NEMA 4X / IP66 Outdoor Use
Switched package

F	Internal EMC Filter
0	No Internal EMC Filter
1	No Brake Transistor
4	Brake Transistor Included

NEMA 4X / IP66

Size		1	2	3	4
in	**Height**	9.1	10.1	12.2	14.2
in	**Width**	6.3	7.4	8.3	9.5
in	**Depth**	6.4	7.2	9.4	10.8
lb	**Weight**	5.5	7.7	15.4	20.9
	Fixings	4 x M4	4 x M4	4 x M4	4 x M4

Drive Specification

Input Ratings	Supply Voltage	110 – 115V ± 10% 200 – 240V ± 10% 380 – 480V ± 10%
	Supply Frequency	48 – 62Hz
	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: 0.5–1.5HP (230V 3 Ph Output) 230V 1 Ph Input: 0.5–5HP 230V 3 Ph Input: 0.5–15HP 400V 3 Ph Input: 1–30HP 460V 3 Ph Input: 1–30HP
	Overload Capacity	150% for 60 Seconds 175% for 2.5 seconds
	Output Frequency	0 – 500Hz, 0.1Hz resolution
	Typical Efficiency	> 98%
Ambient Conditions	Temperature	Storage: -40 to 140°F (-40 to 60°C) Operating: -4 to 122°F (-20 to 50°C)
	Altitude	Up to 3280.84ft ASL without derating Up to 6561.68ft maximum UL approved Up to 13123.36ft maximum (non UL)
	Conformal Coating	3C3 class
	Humidity	95% Max, non condensing
	Vibration	Conforms to EN61800-5-1
Enclosure	Ingress Protection	NEMA 4X / IP66
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 Rated at 8kHz
	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
	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
Fieldbus	Built-in	CANopen	125–1000 kbps
		Modbus RTU	9.6–115.2 kbps selectable
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
	Relay Outputs		Maximum Voltage: 250 VAC, 30 VDC Switching Current Capacity: 6A AC, 5A DC
	Analog Outputs		0 to 10 Volt

Application Features	PI Control	Internal PI Controller Standby / Sleep Function
	Fire Mode	Bidirectional Selectable Speed Setpoint (Fixed / PI / Analog / Fieldbus)
Maintenance & Diagnostics	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
Standards	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, C-Tick
	Environmental Class	3C3/3S3 conformal coated PCBs
New Feature	Optional Built-in	Dual internal RJ45 ports EtherNet as a factory fit option

Contact us to discuss availability & pricing

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