

NEW

OPTIDRIVE™ E³

IP66 / NEMA 4X Outdoor Rated Enclosed Drives



4 Frame Sizes

↑ 22kW

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



	kW	HP	Amps	Frame	Model Code	Product Family	Generation	Frame Size	Voltage Code	Output Current	Supply Phases	EMC Filter	Optical 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	#						
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	#						
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	#						

Replace # in model code with colour-coded option

Enclosure Types

A  **IP66 Outdoor Use Non-switched**

B  **IP66 Outdoor Use Switched**

EMC Filter

F Internal EMC Filter

O No Internal EMC Filter

IP66



Size	1	2	3	4
mm Height	232	257	310	380
mm Width	161	188	210.5	210.5
mm Depth	155	180	215	235
kg Weight	2.1	3	5	7
Fixings	4xM4	4xM4	4xM4	6xM4

Drive Specification

Input Ratings	Supply Voltage	110 – 115V ± 10% 200 – 240V ± 10% 380 – 480V ± 10%	Control Specification	Control Method	Sensorless Vector Speed Control PM Vector Control BLDC Control Synchronous Reluctance	Application Features	PI Control	Internal PI Controller Standby / Sleep Function			
	Supply Frequency	48 – 62Hz		PWM Frequency	4–32kHz Effective		Fire Mode	Bidirectional 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 (not frame size 1)		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		Fieldbus	Setpoint Control		Analog Signal	0 to 10 Volts 10 to 0 Volts 0 to 20mA 4 to 20mA 4 to 20mA 20 to 4mA	Standards	Low Voltage Directive	Adjustable speed electrical power drive systems. EMC requirements
Output Ratings	Output Power	110V 1 Ph Input: 0.5–1.5HP (230V 3 Ph Output)	Digital			Motorised Potentiometer (Keypad) Modbus RTU CANopen	EMC Directive	2014/30/EU Cat C1 according to EN618003:2004			
		230V 1 Ph Input: 0.37–4kW (0.5–5HP)	I/O Specification			Power Supply	24 Volt DC, 100mA, Short Circuit Protected	2014/30/EU			
		230V 3 Ph Input: 0.37–11kW (0.5–15HP)					10 Volt DC, 10mA for Potentiometer	Machinery Directive		2006/42/EC	
		400V 3 Ph Input: 0.75–22kW					Modbus RTU	9.6–115.2 kbps selectable		Conformance	CE, UL, C-Tick
		460V 3 Ph Input: 1–30HP					Relay Outputs	Analog Inputs		Resolution: 12 bits Response time: < 4ms Accuracy: ± 2% full scale Parameter adjustable scaling and offset	Environmental Class
Overload Capacity	150% for 60 Seconds 175% for 2.5 seconds	New Features		Built-in	Dual internal RJ45 ports EtherNet as a factory fit option						
Output Frequency	0 – 500Hz, 0.1Hz resolution										
Typical Efficiency	> 98%										
Ambient Conditions	Temperature		Storage: –40 to 60°C Operating: –20 to 50°C								
	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									
Enclosure	Ingress Protection	IP66									
	Programming	Keypad	Built-in keypad as standard Optional remote mountable keypad								
Display		7 Segment LED									
PC		OptTools Studio									

Contact us to discuss availability & pricing