



## OPTIDRIVE IP55 / NEMA 12

### Wash Down Duty

AC Variable Speed Drive  
1HP & 2HP

575V Three phase input  
575V Three phase output

### The ultimate drive for harsh environments

**Keypad controls with:**

- Manual or Digital Speed Control
- FWD / REV Switch
- On/Off power switch with locking feature



### Key Benefits >>

- Wash down duty IP55/NEMA 12
- Wall mountable
- Rugged industrial 40°C ambient rating for hot and tough applications
- Resists low-pressure water, dust, dirt and chemicals
- Conduit cable entry
- Infra red capability
- Keypad control
- Small mechanical size

#### Industry Sectors

- Food Processing
- Bottling
- Pumping
- Chemical
- Waste Water
- HVAC
- Conveyors



## OPTISTICK

### For fast accurate repeat drive programming

Simply insert Optistick into the RJ45 slot on the inside panel of the Optidrive I55:

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



Specification		OPTIDRIVE I55
Output ratings	Overload Capacity	150% for 60 secs 175% for 2 secs
	Frequency	0...500Hz
Input Ratings	Frequency	48 - 62Hz
	Voltage	575 + / - 10% 1 Phase (0.5 - 1.5HP)
Ambient Conditions	Temperature	Operating: -10 to 40°C Max; Storage : -40 to +60°C
	Altitude	0 - 200m, derate 1% per 100m above 1000m
	Ingress Protection	Ip55 / Nema 12
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 RTU
	Pre-set speeds	4
	PI Control	Yes
	Spin Start	Yes
	Acceleration	0..600 sec
	Deceleration	(2ramps) 0..600 sec
	Programmable I/O	Input 1
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	6-digit LED showing: 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, Phase Loss, Under Temperature
	Memory	Last 4 Trips stored
Bus communication	Modbus RTU	Standard
	Profibus DP	Via Gateway
	DeviceNet	Via Gateway
	Rs485 (Optibus)	Standard

Size 1



Size	Height (in)	Width (in)	Depth (in)	Weight (lbs)
1	7.87	5.51	6.38	5.3
2	12.2	6.46	6.93	10.1

### Ratings Explained:

#### IP55

The Ip55 rating means this unit has a protection level of five against solid-body ingress, and a protection level of five against the ingress of water. Five is the second-highest protection level against solid bodies, meaning the unit is protected against dust ingress to the point of disallowing harmful deposits. Protection against water ingress goes up to level eight, and a five means this unit will be protected against the effect of low-pressure jets of water from any direction

#### NEMA 12

Type 12 enclosures are intended for industrial indoor use primarily to provide a degree of protection against dust, falling dirt, and dripping liquids.

575V	HP	Output Current (A)	Frame Size
ODP-25010-USA-155S	1	1.7	2
ODP-25020-USA-155S	2	3.1	2