

# ENCLOSED OPTIDRIVE IP55 / NEMA 12

## Washdown Duty

AC Variable Speed Drive  
0.37kW – 7.5kW (0.5 – 10HP)  
110 – 600V

The ultimate drive for harsh environments. The IP55 / NEMA 12 enclosure drive has been designed to expand the success of the Optidrive E2 and Optidrive Plus 3<sup>GV</sup> product range

### Key Benefits

- Washdown duty IP55 / NEMA 12
- Wall mountable
- Resists low-pressure water, dust, dirt and chemicals
- Rugged industrial 40°C ambient rating for hot and tough applications
- Conduit cable entry
- Switched or non switched
- Infra red capability
- Keypad Control
- Integral RFI filter option
- Small mechanical size

### Switched Units

- Local Power Isolater
- Local Potentiometer for speed control
- Drive REV/OFF/FWD switch

### 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 effects 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 noncorrosive liquids.



### Industry Sectors

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



Size 1  
Non-Switched



Size 2  
Switched



Size 3  
Switched



### OPTIDRIVE IP55 Dimensions

Size	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)	Fixings
1	200	140	162	2.4	2 x M4
2	310	164	176	4.6	4 x M4
3	310	210.5	243	7.4	4 x M4

### OPTIDRIVE E2 IP55 Electrical Data in kW

Note: For IP55 drives the # is substituted for N = Non-Switched or S = Switched

200–240V 1 Phase	Motor Power (kW)	Output Current (A)	Frame Size
ODE-2-12037-1KB1#	0.37	2.3	1
ODE-2-12075-1KB1#	0.75	4.3	1
ODE-2-12150-1KB1#	1.5	7	1
ODE-2-22150-1KB4#	1.5	7	2
ODE-2-22220-1KB4#	2.2	10.5	2

200–240V 3 Phase	Motor Power (kW)	Output Current (A)	Frame Size
ODE-2-12037-3K01#	0.37	2.3	1*
ODE-2-12075-3K01#	0.75	4.3	1*
ODE-2-12150-3K01#	1.5	7	1*
ODE-2-22150-3KB4#	1.5	7	2
ODE-2-22220-3KB4#	2.2	10.5	2
ODE-2-32040-3KB4#	4	18	3

Note: Suitable for use on single phase supply with 50% derating

\* Size 1 drives are not available with internal rfi filter

380–480V 3 Phase	Motor Power (kW)	Output Current (A)	Frame Size
ODE-2-14075-3KA1#	0.75	2.2	1
ODE-2-14150-3KA1#	1.5	4.1	1
ODE-2-24150-3KA4#	1.5	4.1	2
ODE-2-24220-3KA4#	2.2	5.8	2
ODE-2-24400-3KA4#	4	9.5	2
ODE-2-34055-3KA4#	5.5	14	3
ODE-2-34075-3KA4#	7.5	18	3

### OPTIDRIVE 3<sup>GV</sup> IP55 Electrical Data in kW

Note: For IP55 drives the # is substituted for N = Non-Switched or S = Switched

200–240V 1 Phase	Motor Power (kW)	Output Current (A)	Frame Size
ODP-12037-IN-#	0.37	2.3	1
ODP-12075-IN-#	0.75	4.3	1
ODP-12150-IN-#	1.5	7	1
ODP-22150-IN-#	1.5	7	2
ODP-22220-IN-#	2.2	10.5	2

200–240V 3 Phase	Motor Power (kW)	Output Current (A)	Frame Size
ODP3-22150-IN-#	1.5	7	2
ODP3-22220-IN-#	2.2	10.5	2

380–480V 3 Phase	Motor Power (kW)	Output Current (A)	Frame Size
ODP-24075-IN-#	0.75	2.2	2
ODP-24150-IN-#	1.5	4.1	2
ODP-24220-IN-#	2.2	5.8	2
ODP-24400-IN-#	4	9.5	2

500–600V 3 Phase	Motor Power (kW)	Output Current (A)	Frame Size
ODP-25075-IN-#*	0.75	1.7	2
ODP-25150-IN-#*	1.5	3.1	2
ODP-25220-IN-#*	2.2	4.1	2
ODP-25370-IN-#*	3.7	6.1	2
ODP-25550-IN-#*	5.5	9	2

\* Requires Input Choke

### OPTIDRIVE E2 IP55 Electrical Data in HP

Note: For IP55 drives the # is substituted for N = Non-Switched or S = Switched

110–115V 1 Phase	Motor Power (HP)	Output Current (A)	Frame Size
ODE-2-11005-1H01#	0.5	2.3	1
ODE-2-11010-1H01#	1	4.3	1
ODE-2-21015-1H04#	1.5	5.8	2

Note: 230V, 3 phase output (Voltage Doubler)

200–240V 1 Phase	Motor Power (HP)	Output Current (A)	Frame Size
ODE-2-12005-1H01#	0.5	2.3	1
ODE-2-12010-1H01#	1	4.3	1
ODE-2-12020-1H01#	2	7	1
ODE-2-22020-1H04#	2	7	2
ODE-2-22030-1H04#	3	10.5	2

200–240V 3 Phase	Motor Power (HP)	Output Current (A)	Frame Size
ODE-2-12005-3H01#	0.5	2.3	1
ODE-2-12010-3H01#	1	4.3	1
ODE-2-12020-3H01#	2	7	1
ODE-2-22020-3H04#	2	7	2
ODE-2-22030-3H04#	3	10.5	2
ODE-2-32050-3H04#	5	18	3

Note: Suitable for use on single phase supply with 50% derating

380–480V 3 Phase	Motor Power (HP)	Output Current (A)	Frame Size
ODE-2-14010-3H01#	1	2.2	1
ODE-2-14020-3H01#	2	4.1	1
ODE-2-24020-3H04#	2	4.1	2
ODE-2-24030-3H04#	3	5.8	2
ODE-2-24050-3H04#	5	9.5	2
ODE-2-34075-3H04#	7.5	14	3
ODE-2-34100-3H04#	10	18	3

### OPTIDRIVE 3<sup>GV</sup> IP55 Electrical Data in HP

Note: For IP55 drives the # is substituted for N = Non-Switched or S = Switched

200–240V 1 Phase	Motor Power (HP)	Output Current (A)	Frame Size
ODP-12005-USA-#	0.5	2.3	1
ODP-12010-USA-#	1	4.3	1
ODP-12020-USA-#	2	7	1
ODP-22020-USA-#	2	7	2
ODP-22030-USA-#	3	10.5	2

200–240V 3 Phase	Motor Power (HP)	Output Current (A)	Frame Size
ODP3-22020-USA-#	2	7	2
ODP3-22030-USA-#	3	10.5	2

380–480V 3 Phase	Motor Power (HP)	Output Current (A)	Frame Size
ODP-24010-USA-#	1	2.2	2
ODP-24020-USA-#	2	4.1	2
ODP-24030-USA-#	3	5.8	2
ODP-24050-USA-#	5	9.5	2

500–600V 3 Phase	Motor Power (HP)	Output Current (A)	Frame Size
ODP-25010-USA-#*	1	1.7	2
ODP-25020-USA-#*	2	3.1	2
ODP-25030-USA-#*	3	4.1	2
ODP-25050-USA-#*	5	6.1	2
ODP-25075-USA-#*	7.5	9	2

\* Requires Input Choke