

# ENCLOSED OPTIDRIVE IP55 / NEMA 12

## Wash Down 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.

AVAILABLE IN SWITCHED OR NON-SWITCHED ENCLOSURES

### Key Benefits >>

- Wash down 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 Isolator
- Local Potentiometer for speed control
- Drive Fwd/Rev 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 E2 IP55 Electrical Data in kW

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

| 200 - 240V<br>1 Phase | Motor Power<br>(kW) | Output Current<br>(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<br>3 Phase | Motor Power<br>(kW) | Output Current<br>(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<br>3 Phase | Motor Power<br>(kW) | Output Current<br>(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

PLEASE NOTE: For IP55 drives the # is substituted for I55 = Non-Switched or I55S = Switched

| 200 - 240V<br>1 Phase | Motor Power<br>(kW) | Output Current<br>(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<br>3 Phase | Motor Power<br>(kW) | Output Current<br>(A) | Frame Size |
|-----------------------|---------------------|-----------------------|------------|
| ODP3-22150-IN-#       | 1.5                 | 7                     | 2          |
| ODP3-22220-IN-#       | 2.2                 | 10.5                  | 2          |

| 380 - 480V<br>3 Phase | Motor Power<br>(kW) | Output Current<br>(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<br>3 Phase | Motor Power<br>(kW) | Output Current<br>(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 IP55 Dimensions

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

### OPTIDRIVE E2 IP55 Electrical Data in HP

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

| 110 - 115V<br>1 Phase | Motor Power<br>(HP) | Output Current<br>(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<br>1 Phase | Motor Power<br>(HP) | Output Current<br>(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<br>3 Phase | Motor Power<br>(HP) | Output Current<br>(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<br>3 Phase | Motor Power<br>(HP) | Output Current<br>(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

PLEASE NOTE: For IP55 drives the # is substituted for I55 = Non-Switched or I55S = Switched

| 200 - 240V<br>1 Phase | Motor Power<br>(HP) | Output Current<br>(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<br>3 Phase | Motor Power<br>(HP) | Output Current<br>(A) | Frame Size |
|-----------------------|---------------------|-----------------------|------------|
| ODP3-22020-USA-#      | 2                   | 7                     | 2          |
| ODP3-22030-USA-#      | 3                   | 10.5                  | 2          |

| 380 - 480V<br>3 Phase | Motor Power<br>(HP) | Output Current<br>(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<br>3 Phase | Motor Power<br>(HP) | Output Current<br>(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