

OPTIDRIVE IP66 / NEMA 4X

High Pressure Wash Down Duty

AC Variable Speed Drive 0.5HP -1.5HP

110/120V single phase input 230V Three phase output

The ultimate drive for harsh environments

Ready for high-pressure washdown, the cost-effective Ip66 / Nema 4X Optidrives can be mounted directly on your processing equipment

Key Benefits >>

- Dust tight Ip66 / Nema 4X enclosure for protection in dusty and damp environments.
- · Innovative sealing system to resist frequent high pressure washdown.
- Coated heatsink resists corrosion and chemicals.
- · Simple parameter set for fast commissioning and start up.
- Modbus RTU onboard allows simple control and integration with a wide range of PLC's and MMI's.
- Keypad control with;
 - Manual or Digital speed control
 - FWD / REV Switch
 - On/Off power switch with locking feature

OPTISTICK

For fast accurate repeat drive programming

Simply insert Optistick into the Rj45 slot on the inside panel of the Optidrive Ip66:

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

Industry Sectors Food Processing Bottling Pumping Chemical Waste Water HVAC Conveoyors

| Specification | n | OPTIDRIVE 155 | |
|-----------------------|----------------------------|---|--|
| Output ratings | Overload Capacity | 150% for 60 secs 175% for 2 secs | |
| | Frequency | 0500Hz | |
| Input Ratings | Frequency | 48 - 62Hz | |
| | Voltage | 110 - 115 + / - 10% 1 Phase (0.5 - 1.5HP) | |
| Ambient Conditions | Temperature | Operating: -10 to 40°C Max; Storage: -40 to +60°c | |
| | Altitude | 0 - 2000m, derate 1% per 100m above 1000m | |
| | Ingress Protection | lp66 / Nema 4X | |
| Programming | Keypad | Yes | |
| | PC | Yes | |
| | PDA | Yes | |
| | Smartphone | Yes | |
| Control Specification | Control Method | Voltage Vector | |
| | PWM Frequency | 432kHz (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 | 010 VDC 204mA / 420mA Digital - Keypad ModBus | |
| | Pre-set speeds | 4 | |
| | PI Control | Yes | |
| | Spin Start | Yes | |
| | Acceleration | 0600 sec | |
| | Deceleration | (2ramps) 0600 sec | |
| Programmable I/O | Input 1 | Programmable Digital Input | |
| | 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 | 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 Temperatur Short Circuited, Earth fault. | |
| | Memory | Last 4 Trips stored | |
| Bus communication | Modbus RTU | Standard | |
| | Profibus DP | Via Gateway | |
| | DeviceNet | Via Gateway | |
| | Rs485 (Optibus) | Standard | |

Size 1



| Size | Length (in) | Width (in) | Depth (in) | Weight (lbs) |
|------|-------------|------------|------------|--------------|
| 1 | 9.13 | 6.34 | 6.89 | 6.2 |
| 2 | 10.1 | 7.40 | 7.36 | 10.1 |

Ratings Explained:

IP66

An IP number contains two numbers (i.e lp66) in most instances, which relates to the level of protection provided by an enclosure or housing

The first number related to protection from solids as follows:

6 - Dust tight.

The second number relates to the protection from liquids as follows:

6 - Protection against powerful jets of water

NEMA 4X

Enclosures constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, windblown dust, splashing water, and hose-directed water. Enclosure is protected against corrosion.

| 110-120V | HP | Output Current (A) | Frame Size |
|-------------------|-----|--------------------|------------|
| ODE-2-11005-1H01Y | 0.5 | 2.3 | 1 |
| ODE-2-11010-1H01Y | 1 | 4.3 | 1 |
| ODE-2-21015-1H04Y | 1.5 | 5.8 | 2 |

⋆575V available soon