

AutoDRIVE

VARIABLE FREQUENCY DRIVE

115V / 230V | Single Phase Output
 1/3 HP to 2 HP | 2 Wire & 3 Wire Motors
 Pressure Switch | Pressure Transducer

230V | Three Phase Output
 2 HP, 3 HP, & 5 HP



American Made & Built To Last

Constant Pressure

- Reduced tank size
- Quick & simple installation

Easy Setup

- Setup constant pressure in 5 steps or less

Large Graphic Display

- Bright backlit screen
- Visible in direct sunlight

Rugged & Compact

- NEMA 3R steel enclosure
- Rated to 122°F, (104°F for SD3-5HP2)

Feature Set | Power Behind The Pump

- Feature set provides complete control capability for all pumping applications

4" Motors & Controls

Breaker Recommendations

| Fuse/Breaker Recommendations Single Phase | | | Fuse/Breaker Recommendations Three Phase | | |
|---|---------------|--------------|--|---------------|--------------|
| Motor HP | Input Current | Fuse/Breaker | Motor HP | Input Current | Fuse/Breaker |
| 115V | | | 230V | | |
| 1/3 | 8 A | 10 A | 2 | 20 A | 25 A |
| 1/2 | 14 A | 20 A | 3 | 30 A | 40 A |
| 1 | 28 A | 35 A | 5 | 42 A | 55 A |
| 230V | | | | | |
| 1/2 | 6 A | 10 A | | | |
| 3/4 | 9 A | 15 A | | | |
| 1 | 14 A | 20 A | | | |
| 1 1/2 | 18 A | 25 A | | | |
| 2 | 28 A | 35 A | | | |

Accommodated Wire Size

| Connecting Load - Accommodated Wire Sizes | |
|---|------------|
| Power Terminal | 14 – 6 AWG |
| Minimum Torque | 10.5 in-lb |

AutoDRIVE

Enclosure Overview



Technical Specifications - Single Phase

| Physical / Environmental | |
|-----------------------------|--|
| Operating Temperature Range | 1/3 HP to 2 HP -20°C to 50°C (-4 F to 122°F) |
| Storage Temperature Range | -30°C to 60°C (-22°F to 140°F) |
| Enclosure | NEMA Type 3R: Outdoor Rainproof |
| Altitude | Derate by 5 °C every 2000 ft over 5500 ft of elevation |
| Dimensions | 12.25 in x 9.25 in x 4.68 in |
| Weight | 13 lbs |
| Specifications | |
| Model Number | SD1-2HP2PS SD1-2HP2 |
| Horsepower | 1/3 HP to 2 HP |
| Motor Style | 2-Wire or 3-Wire |
| Rated Current | |
| Rated Input Current | Max: 28 A |
| Rated Output Current | Max: 16 A |
| Input Power | |
| Input Phase | Single Phase |
| Input Voltage | 115 / 230 VAC |
| Input Voltage Range | 90V to 160V 180V to 260V |
| Input Frequency | 60 Hz |

| Output Power | |
|--------------------------------|---|
| Output Phase | Single Phase |
| Output Voltage | Equal to input |
| Output Frequency | 5 Hz to 120 Hz |
| Horsepower | 1/3 HP to 2 HP |
| Switching Frequency | 2 kHz to 8 kHz |
| Output | V/f control |
| Electrical | |
| Short Circuit Withstand Rating | 5 kA RMS Symmetrical Amps |
| Efficiency | 95% |
| Startup Ramp Time | 0 to 120 s |
| Shutdown Ramp Time | 0 to 120 s or Coast To Stop |
| Overload Capacity | 150% for 2 s |
| | <i>Rated output current for 2 HP model based on typical full load current for submersible motors.</i> |
| Digital Inputs | |
| Quantity | Two Programmable |
| Ratings | <15 V 7 mA Galvanically Isolated |
| Analog Inputs | |
| Quantity | Two Programmable |
| Current Reference | 4-20 mA One Input |
| Voltage Reference | 0 to 5 VDC One Input |
| Terminal Block Size | 24 to 16 AWG |

AutoDRIVE

Enclosure Overview



Technical Specifications - Three Phase

| Physical / Environmental | |
|-----------------------------|--|
| Operating Temperature Range | -20°C to 50°C (-4°F to 122°F) -20°C to 40°C (-4°F to 104°F) |
| Storage Temperature Range | -30°C to 60°C (-22°F to 140°F) |
| Enclosure | NEMA Type 3R: Outdoor Rainproof |
| Altitude | Derate by 5 °C every 2000 ft over 5500 ft of elevation |
| Dimensions | 12.25 in x 9.25 in x 4.68 in |
| Weight | 13 lbs |

| Specifications | |
|----------------|--------------------------------|
| Model Number | SD3-2HP2 SD3-3HP2 SD3-5HP2 |
| Horsepower | 2 HP, 3 HP, 5 HP |
| Motor Style | 3-Wire |

| Rated Current | |
|----------------------|-----------------------|
| Rated Input Current | Max: 20 A, 30 A, 42 A |
| Rated Output Current | Max: 11 A, 13 A, 22 A |

| Input Power | |
|---------------------|--------------|
| Input Phase | Single Phase |
| Input Voltage | 230 VAC |
| Input Voltage Range | 190V to 275V |
| Input Frequency | 60 Hz |

| Output Power | |
|----------------------|----------------|
| Output Phase | Three Phase |
| Output Voltage | 230V |
| Output Voltage Range | 190V - 275V |
| Output Frequency | 5 Hz to 300 Hz |
| Horsepower | 2 HP to 5 HP |
| Switching Frequency | 2 kHz to 8 kHz |
| Output | V/f control |

| Electrical | |
|--------------------------------|-----------------------------|
| Short Circuit Withstand Rating | 5 kA RMS Symmetrical Amps |
| Efficiency | 95% |
| Startup Ramp Time | 1 to 120 s |
| Shutdown Ramp Time | 1 to 120 s or Coast To Stop |
| Overload Capacity | 120% for 60 s |

| Analog Inputs | |
|---------------------|----------------------|
| Quantity | Two Programmable |
| Current Reference | 4-20 mA Two Input |
| Voltage Reference | 0 to 5 VDC One Input |
| Terminal Block Size | 24 to 16 AWG |