Life Is On Schneider

Altivar Outdoor

The Oil & Gas and Irrigation pumping solution from Schneider Electric



altivardrives.com

Contents



Altivar 630/930 variable speed drives

| • | Introduction | .4 |
|---|----------------|-----|
| • | Applications | . 5 |
| • | Features | . 6 |
| • | Specifications | .7 |
| • | Diagrams | . 8 |

Introduction

Altivar[™] Outdoor is a UL Type 3R rated drive designed for pumping solutions in outdoor environments, especially for Oil & Gas and Irrigation

Outdoor installations add a new set of environmental and thermal challenges to operations. You must consider lightning and surge protection as well as the changes in temperature–both hot and cold–which can adversely impact performance.

Altivar Outdoor is designed for these environments, with a wide array of power and automation options from 20 hp to 250 hp to meet your application needs. Schneider Electric offers solutions engineered specifically for you and your pumping needs.



Other hp ranges available upon request as Engineered To Order

Easily configured to your application needs

Altivar Outdoor offers a field-proven UL Type 3R outdoor platform for the following applications:



Applications

A drive that consistently delivers performance and value



Key benefits

- Easy-to-use graphic terminal display
- Door-on-door for easy access to keypad
- Dependable, durable, and a complete packaged offering
- Flexible for application requirements to meet customer needs
- Validated and documented control architecture designed to reduce cost, space, and start-up time
- 50 °C temperature evaluated to meet those high-temperature environments
- Comprehensive engineering and design support
- Four-week delivery for standard featured package



Uncompromising design with advanced features



Options

- 5% impedance
- 30 mm heavy-duty operators
- Bypass
- Type 2 SPD/HWA surge arrestors
- · Passive harmonic filter
- · Floor stand kit
- -25 °C (cold weather option)
- · E-stop, pushbutton
- · Ag/Irrigation (PID ready)

Standard features

- 14 to 122 °F (-10 to 50 °C) range
- Door-on-door arrangement
- 3% impedance
- Cabinet heater
- UL508A listed
- Nonbypass
- Surge protection
- Assembled in the U.S.
- UL Type 3R enclosures
- · Thermostatically controlled cooled fans
- Service entrance rated
- 120 V control power transformer
- · Hand-off-auto switch manual speed pot
- 22 mm pilot lights
- Power on, tripped, AFC run lights
- · Forced ventilation with washable filter
- Additional enclosure space for end user

Altivar Outdoor Dimensions

| HP | Volts | Height | Width | Depth | | |
|------------------|---------|--------|-------|-------|--|--|
| Normal Duty (ND) | | | | | | |
| 20 - 60 | 460 VAC | 58.9" | 36" | 26.8" | | |
| 75 - 125 | 460 VAC | 70.8" | 36" | 26.8" | | |
| 150 - 250* | 460 VAC | 93.9" | 40" | 41.3" | | |
| Heavy Duty (HD) | | | | | | |
| 20 - 50 | 460 VAC | 58.9" | 36" | 26.8" | | |
| 60 - 100 | 460 VAC | 70.8" | 36" | 26.8" | | |
| 125 - 200* | 460 VAC | 93.9" | 40" | 41.3" | | |

*Welded feet standard

Uncompromising design with advanced features

Altivar Outdoor specifications

| Input | | | | | |
|--|--|--|--|--|--|
| Rated voltage Un | 460 Vac +- 10% | | | | |
| Rated frequency fn | 50 / 60 Hz ±5% | | | | |
| Output | | | | | |
| Control method | Asynchronous motor: Constant load torque standard, variable load torque standard Synchronous motor: load-depending mode PM (permanent magnet) motor | | | | |
| Voltage | 3 AC 0100 % mains voltage | | | | |
| Overload | Normal Duty (ND): 120% for 60 s per 10 minutes Heavy Duty (HD): 150% for 60 s per 10 minutes | | | | |
| Switching frequency | Selectable from .5-8kHz. Factory setting: 2.5kHz | | | | |
| Output frequency range of power converter | 0.1500 Hz | | | | |
| Short-circuit protection | 65kA | | | | |
| Mechanical strength | | | | | |
| Operational test vibration | According to IEC/EN 60068-2-6 1.5 mm at 310 Hz 0.6 g at 10200 Hz (3M3 according to IEC/EN 60721-3-3) | | | | |
| Mechanical shock | According to IEC/EN 60068-2-27 4 g for 11 ms (3M3 according to IEC/EN 60721-3-3) | | | | |
| Ambient conditions | | | | | |
| Operating temperature | -10+50 °C (below 0 °C with additional enclosure heating) | | | | |
| Storage / Transport temperature | -25+65 °C | | | | |
| Protection degree | UL Type 3R | | | | |
| Environmental Specifications | | | | | |

continued on next page >

Uncompromising design with advanced features

Altivar Outdoor specifications (continued)

| Altitude | 3,300 ft. (1000 m), without derating, derating of the current by 1% for each additional 330 ft (100m) up to 9,842 ft (3000m) maximum | | | |
|--------------------------------|---|--|--|--|
| Pollution degree | Pollution degree 2 | | | |
| Functional safety | | | | |
| Functional safety of the drive | The function "Safe Torque Off" (STO) allows a controlled shut-down as well as switch-off of the power supply when standstill. It also helps to prevent any unintended start of the motor according to ISO 13849-1, performance level PL e, according to IEC/EN 61508 safety integrity level SIL 3 and IEC/EN 61800-5-2. | | | |
| Response time | ≤ 100 ms at STO (Safe Torque Off) | | | |
| Standards | | | | |
| Codes and standards | UL Listed per UL 508A IEEE519 compliant (passive harmonic filter required) Conforms to applicable NEMA ICS, NFPA, and IEC Manufactured under ISO 9001 standards | | | |
| Operational shock | Conforming to IEC/EN 60068-2-27 4g for 11ms 3M3 conforming to IEC/EN 60721-3-3 | | | |
| Transit shock test | Conforming to National Safe Transit Association and International Safe Transit Association test for packages | | | |
| Operational test vibration | Conforming to IEC/EN 60068-2-6 1.5 mm at 3-10 Hz, .6g at 10-200Hz 3M3 conforming to IEC/EN 60721-3-3 | | | |

Diagrams

Ratings at 460 V

- 20 60 ND with or without Bypass
- 20 50 HD with or without Bypass
- 20 50 ND/HD Harmonic Filter with or without Bypass



APPROXIMATE WEIGHT: 550 - 950 LBS.



Diagrams

Ratings at 460 V

- 75 125 ND with or without Bypass
- 60 100 HD with or without Bypass
- 60 100 ND/HD Harmonic Filter with or without Bypass



APPROXIMATE WEIGHT: 750 - 1100 LBS.



SHOWN WITH OPTIONAL FLOOR STAND KIT

Diagrams

Ratings at 460 V

- 150 250 ND
- 125 200 HD
- 125 250 ND Harmonic Filter
- 125 200 HD Harmonic Filter
- 150 200 ND/HD with Bypass



APPROXIMATE WEIGHT: 900 - 1500 LBS.





For more information on Altivar Outdoor, contact your local field office or visit altivardrives.com

Schneider Electric USA, Inc.

8001 Knightdale Blvd. Knightdale, NC 27545

USA Customer Care Center Tel: 888-778-2733 The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

© 2016 Schneider Electric. All Rights Reserved. Schneider Electric, Altivar, and Life Is On Schneider Electric are trademarks and the property of Schneider Electric SE, its subsidiaries and affiliated companies. All other trademarks are the property of their respective owners. 998-19615749_US Design: Schneider Electric Photos: Schneider Electric