

LOW VOLTAGE DRIVES

## ABB NEMA 3R drives

ACS550, 15 to 200 hp



Easy to use drives that provide reliable pump and fan control are vital to the health of your bottom line. ABB drives help you protect your investment by safeguarding your system and enabling it to run efficiently to provide the value and dependability you demand.

Who you choose matters.

### System optimization

Whether you are saving energy or converting power, your system requires optimized control. In the event of a system failure, minimizing downtime is imperative. ABB manufactures drives in the U.S. for quick delivery and makes technical support available to you every day – because your investment is our priority, too.

### Inherent cost savings

Keeping costs under control is important in any industry. Approximately 60% of industrial electrical loads are centrifugal pumps and fans. For these applications Variable Frequency Drives (VFDs) enable you to reduce speed and inherently save energy. For example, on centrifugal pump applications, the power requirement of the pump varies by the cube of the speed. This means when you reduce the pump flow by 20% using a Variable Frequency Drive (VFD), rather than a bypass or valve flow control, you will typically cut energy costs in half. Additionally, VFDs can use either three-phase or single-phase input to control three-phase submersible or vertical motors, which is more cost effective and minimizes inrush current to help decrease wear and tear on your pump and piping systems.

### Enclosures rated for outdoor use

We understand how important it is for you to have control of your process where and when you need it. You need equipment that can stand up to the elements. ABB's outdoor NEMA/UL Type 3R rated enclosure eliminates the need for solar shielding, and includes a thermostatically controlled heater to protect against condensation and a surge suppressor to safeguard against transient lightning strikes.

### Expertise

Regional application expertise is available to help ensure the success of your project. When the drive is commissioned by an ABB Certified Start-Up Technician, you also benefit from an extended drive warranty and the peace of mind that your investment was properly commissioned.

## Product highlights

- Available from 15 to 200 hp
- Single phase 240 VAC, 15 to 50 hp
- Three phase 240 VAC, 25 to 100 hp
- Three phase 480 VAC, 40 to 200 hp
- Outdoor rated, NEMA 3R / UL certified enclosure
  - Outdoor protection against falling rain, sleet, snow, and external ice formation
  - 14-gauge sheet metal (1.5mm)
  - White powder-coat painted
- Padlockable enclosure on the main door and control door
- 100 kAIC SCCR rated
- Ambient temperature (-20 to 40 °C)
- Included in the ABB 3R package
  - ABB ACS550 base drive
  - Advanced drive keypad
  - 4 pole service entrance rated disconnect with fuses
  - Surge/lightning protection
  - Condensation heater
  - Hand/Off/Auto selector switch
  - Speed potentiometer
  - Pilot lights for drive ready, run and fault
  - Control power transformer with an extra 100va for customer use
  - Embedded Modbus RTU (RS485) protocol (additional communication protocols available)
- Quick installation and setup
- Wall and pole mounting to fit your requirements
- Foot mounting kit available
- Stock available on 460V versions

Type code UL type 3R (NEMA 3R)	Normal duty (110% I <sub>2n</sub> )		Weight* lb	Height in	Width in	Depth in
	I <sub>2n</sub> A	P <sub>N</sub> HP				
Single phase supply voltage 200, 208 or 230 V. The power ratings are valid at nominal voltage, 208 V						
ACS550-PD-088A-2+C192	44	15	310	49.00	32.36	22.88
ACS550-PD-114A-2+C192	57	20	320	49.00	32.36	22.88
ACS550-PD-143A-2+C192	75	25	330	49.00	32.36	22.88
ACS550-PD-178A-2+C192	89	30	340	49.00	32.36	22.88
ACS550-PD-221A-2+C192	110	40	345	49.00	32.36	22.88
ACS550-PD-248A-2+C192	128	50	350	49.00	32.36	22.88
Three phase supply voltage 200, 208 or 230 V. The power ratings are valid at nominal voltage, 208 V						
ACS550-PD-075A-2+C192	74.8	25	305	49.00	32.36	22.88
ACS550-PD-088A-2+C192	88	30	310	49.00	32.36	22.88
ACS550-PD-114A-2+C192	114	40	320	49.00	32.36	22.88
ACS550-PD-143A-2+C192	143	50	330	49.00	32.36	22.88
ACS550-PD-178A-2+C192	178	60	340	49.00	32.36	22.88
ACS550-PD-221A-2+C192	221	75	345	49.00	32.36	22.88
ACS550-PD-248A-2+C192	248	100	350	49.00	32.36	22.88
Three phase supply voltage 460 or 480 V. The power ratings are valid at nominal voltage, 480 V						
ACS550-PD-059A-4+C192	59	40	300	49.00	32.36	22.88
ACS550-PD-072A-4+C192	72	50	305	49.00	32.36	22.88
ACS550-PD-078A-4+C192	77	60	310	49.00	32.36	22.88
ACS550-PD-097A-4+C192	96	75	320	49.00	32.36	22.88
ACS550-PD-125A-4+C192	125	100	330	49.00	32.36	22.88
ACS550-PD-157A-4+C192	157	125	340	49.00	32.36	22.88
ACS550-PD-180A-4+C192	180	150	345	49.00	32.36	22.88
ACS550-PD-246A-4+C192	246	200	350	49.00	32.36	22.88

\* Product Weight does not include shipping packaging add approx 170 lbs for shipping weight

