



ACS550-US-00

ACS 550 Adjustable Speed AC Drive

Product Notes



The NEW ACS 550 Sensorless Vector AC Drive from ABB! For advanced speed control of 1 to 500 HP AC induction motors.

ACS 550 Adjustable Speed AC Drives

The ABB ACS 550 AC drive combines a sophisticated microprocessor with an advanced IGBT power switching technology to deliver V/Hz, Closed Loop Flux Vector, and Sensorless Vector control of AC motors. Its Intuitive Control Panel offers numerous benefits making it the most user-friendly panel in the drives industry.

The extensive library of pre-programmed application macros maximizes convenience and minimizes start-up time.

This drive can handle the most demanding industrial applications in an efficient, dependable and economic manner.

A new Control Panel, included as standard, provides a real-time clock and full graphic display as well as a dedicated help button.

Features Include:

- Control Panel with
 - Start-Up, Maintenance and Diagnostic Assistants
 - Support for 15 Languages
 - Full Graphic Display
 - "Help" Button
- Numerous internally mountable fieldbus adapters for serial communications
- Patent Pending Swinging Choke for Superior Harmonic Mitigation
- Internal Option Slots for additional I/O
- RS-485 Modbus Included as Standard
- Extensive Library of Pre-Programmed Application Macros
- Integral EMC Filter for 1st Environment, Restricted Distribution (30 m motor cable)
- UL, cUL and CE Approved
- Integral Braking Chopper up to 15 HP (480 VAC)

Easily Integrated:

- Sinking or Sourcing Input Device Logic
- Galvanically Isolated Digital I/O





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ACS 550 Technical Data

Input Connection

Voltage: 3-Phase
200 to 480 VAC
+/- 10% permitted tolerance

Frequency: 48 ... 63 Hz
+/- 2 Hz

Output Connection

Voltage: 0 to max
Frequency: 0 to 500 Hz

Environmental Limits

Ambient Operating Temperature: 0° to 40°C

Enclosure

Type: NEMA 1, NEMA 12

Standard Control Connection

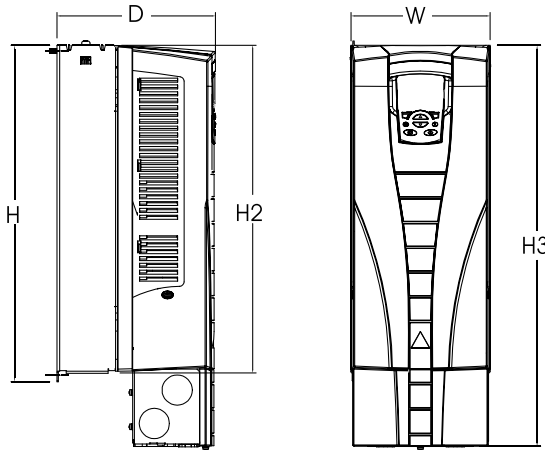
- 2 Programmable Analog Inputs (voltage or current)
- 6 Programmable Digital Inputs
- 2 Programmable Analog Outputs
- 3 Programmable Relay Outputs

Options

- External Braking Units (R3 - R8)
- DriveWindow Light Programming and Diagnostic Software
- Fieldbus Adapter Modules: DeviceNet, Profibus, ControlNet, CANopen

Protection

- Overcurrent
- **Ground Fault**
- Overtemperature
- Auxiliary Voltage Short Circuit Protection
- Electronic Motor Overload (UL508C - I²t)
- Overvoltage
- Undervoltage
- Microprocessor Fault
- Motor Stall
- Underload



Frame	NEMA 1 Enclosure															
	R1		R2		R3		R4		R5		R6		R7		R8	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
W	125	4.9	125	4.9	203	8.0	203	8.0	265	10.4	300	11.8	609	23.9	800	31.5
H	330	13.0	430	16.9	490	19.3	596	23.4	N/A	N/A	N/A	N/A	1503	59.2	2130	83.9
H2	315	12.4	415	16.3	478	18.8	583	23.0	602	23.7	700	27.6	N/A	N/A	N/A	N/A
H3	369	14.5	469	18.5	583	23.0	689	27.1	739	29.1	880	34.6	N/A	N/A	N/A	N/A
D	212	8.3	222	8.7	231	9.1	262	10.3	286	11.3	400	15.8	495	19.5	585	23.0
Weight	6.17 kg	13.6 lb	8.85 kg	19.5 lb	19.2kg	42.4 lb	22.5kg	49.5 lb	29.9kg	66 lb	59.9kg	132 lb	195kg	430 lb	375kg	827 lb
230V HP	1 - 5		7.5 - 10		15 - 20		25 - 40		50		60 - 100		-		-	
480V HP	1.5 - 7.5		10 - 15		20 - 25		30 - 50		60 - 75		100 - 150		150 - 250		300 - 550	

N/A = Information not available at time of printing
Drawing is not for engineering purposes.



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