

Simple, Flexible and Performance-Rich



Bulletin 1305 AC Drive

Horsepower Range

The Bulletin 1305 drive is available in packages capable of delivering between 0.37 and 4.0 kW (0.5 - 5 HP) with a 380-460V AC input voltage and between 0.5 and 3 horsepower with a 200-230V AC input voltage.

Product Highlights

- The 1305 AC drive is capable of producing high torque across a wide speed range
- Compact packaging
- Fast acceleration times mean more cycles per minute which translates to increased revenue
- Easy-access power and control wiring through a hinged front panel
- Hybrid current limit function utilizes both firmware and hardware control to minimize the possibility of trips during shock loads, fast accelerations, constant speed operation and deceleration
- Electronic motor overload protection and other built-in protective features save panel space and reduce installation costs
- IR compensation function increases power to the motor when it is needed most
- Inherent dynamic braking for faster stopping
- Slip compensation provides tighter speed control during load changes
- Intelligent power modules using IGBT technology

Communications

The Bulletin 1305 drive offers the ideal combination of programming simplicity and sophisticated communications. Key programming and communications features include:

- Detachable human interface module that features intuitive programming commands and easy-to-read status messages
- SCANport™ communications to support multiple-component communication over a single network
- Digital programming through a local human interface module, Allen-Bradley PLC®, SLC™ or through a serial communications port using Allen-Bradley DriveTools™ software
- Configurable I/O that allows simple connection to preferred control schemes



Bulletin 1305

The Bulletin 1305 AC drive is designed to control the speed of three-phase AC induction motors in a variety of demanding applications where flexibility, performance and ease of use are essential. Featuring an unbeatable combination of space-efficient packaging, reliability, and diagnostic data, the Bulletin 1305 drive is the ideal solution for demanding applications.

AB PLCs

Performance Features	<ul style="list-style-type: none"> • Compact packaging • Capable of producing high torque across a wide speed range • Easy-access power and control wiring through a hinged front panel • Readily configurable for either two- or three-wire control • Inherent dynamic braking for faster stopping • IR compensation function increases power to the motor when it is needed most 	<ul style="list-style-type: none"> • Fast acceleration times mean more cycles per minute, and translate into increased revenue • Built-in protective features that save panel space and reduce installation costs • The hybrid current limit function utilizes both firmware and hardware control to minimize the possibility of trips during shock loads, fast accelerations, constant speed operation and deceleration • Intelligent power modules using IGBT technology 				
Application Logic	<ul style="list-style-type: none"> • Software configurable inputs • S-Curve acceleration and deceleration 	<ul style="list-style-type: none"> • Slip compensation 				
Operator Interface	<ul style="list-style-type: none"> • Programming and/or Operation • Optional Human Interface Module 	<ul style="list-style-type: none"> • 2-Line x 16-Character LCD • Multi-Language Support 				
Standards	<ul style="list-style-type: none"> • UL Listed • CSA Certified 	<ul style="list-style-type: none"> • CE-Emissions, Immunity, Low Voltage • Designed to Meet International Standards 				
Nominal Ratings	0.37-4.0kW (1/2-5 HP)					
Input Specifications	Three-Phase Voltage Frequency Power Ride Through Control Ride Through	200/230V, 380/460V AC ± 10% 47-63 Hz 15mS Minimum 0.5 Sec. Minimum (2.0 Sec. Typical)				
Output Specifications	Voltage Frequency Range Frequency Resolution Continuous Current Intermittent Current Instantaneous Current Trip Speed Regulation	Adjustable from 0 Volts to Nominal Input Voltage 0-400 Hz, Programmable 0.01 Hz To 100% of Rated Current To 150% for 60 Seconds At 200% to 270% 1%				
Drive Adjustments	Accel/Decel Frequency Stop Mode Adjustable Current Limit Motor Overload Motor Control Preset Speeds Jog Input	0.0-3600 Seconds in 0.1-second Increments Independently set (2 Accel, 2 Decel) 0 to 120 Hz Minimum; 40 to 400 Maximum Ramp to Stop/Coast/DC Brake to Stop/S-Curve Stop 20 to 150% 20 to 115% V/Hz 0-400 Hz, 7 Selections, Independently Set 0 to 400 Hz				
Ambient Operating Temperatures	Without Enclosure With Enclosure	0° to 50° C 0° to 40° C				
Dimensions mm (inches)	200/230V frames .37-.55kW (0.5-.75 HP) .75kW (1 HP) 1.5kW (2 HP) 2.2kW (3 HP)	380/460V frames .37-2.2kW (0.5-3 HP) 4.0kW (5 HP)	Height 195 (7.68) 195 (7.68) 195 (7.68) 195 (7.68)	Width 120 (4.72) 120 (4.72) 170 (6.69) 210 (8.27)	Depth w/o Pot. 122 (4.80) 140 (5.51) 179 (7.05) 179 (7.05)	Depth w/Pot. 127.1 (5.00) 145.1 (5.71) 184.1 (7.25) 184.1 (7.25)

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Allen-Bradley, a Rockwell Automation Business, has been helping its customers improve productivity and quality for more than 90 years. We design, manufacture and support a broad range of automation products worldwide. They include logic processors, power and motion control devices, operator interfaces, sensors and a variety of software. Rockwell is one of the world's leading technology companies.

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