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.



Performance Features	 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 			 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	 Software configurable inputs S-Curve acceleration and deceleration 			Slip compensation			
Operator Interface	Programming and/or OperationOptional Human Interface Module			 2-Line x 16-Character LCD Multi-Language Support			
Standards	• UL Listed • CSA Certified			CE-Emissions, Immunity, Low VoltageDesigned 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 to120 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 .3755kW (0.575 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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