

A Step Above the Rest

"Series C" 160 Smart Speed Controllers



Power Range

The **Bulletin 160** Smart Speed Controller is available in models rated between 0.37 to 4 kW (0.5 to 5 horsepower) with voltage ratings 200-240V and 380-460V three-phase input and 0.37 to 1.5 kW (0.5 to 2 horsepower) 200-240V single-phase input.

Product Highlights

- Exceptionally compact packaging saves panel space.
- Optional Program Keypad Module provides local control and easy access to all parameters through a simple 6-character LED display.
- DIN rail attachable design permits quick installation.
- Electronic motor overload protection eliminates the need for an external overload relay.
- Configurable control terminal block eliminates the need for external control logic.
- Analog model can be configured for PI control or preset speed control meeting a wider array of applications with one model.
- Relay precharge limits inrush current and simplifies selection of branch circuit protection devices.
- Integrated MOV's provide 6 KV transient voltage protection.
- Optional remote keypad and copycat keypad modules provide added application flexibility.

Diagnostics and Communications

The **Bulletin 160** can be used to provide network solutions and critical diagnostic capabilities. Key diagnostics and communication features include:

- Program Keypad Module provides diagnostic fault indication and storage.
- Plug-in DeviceNet™ and RS232 communication modules reduce installation time and save panel space.
- Self-generating EDS files simplify DeviceNet setup and configuration.
- RS232 communication module is compatible with DriveExplorer™ allowing upload and download capability.
- Programmable output (N.O./N.C. contact) provides feedback on drive/load conditions.



*When the **Bulletin 160 SSC™** was first introduced in the market, its innovative design helped set the standard for future microdrives. With the new Series C design, expanded power ratings (through 5 HP, 4 kW), increased functionality and an enhanced hardware design place the **Bulletin 160 SSC** a "Step Above the Rest" for small AC drive applications! (5 hp design shown)*



Bringing Together Leading Brands in Industrial Automation

Performance Features	<ul style="list-style-type: none"> Remarkably compact design Feed through power terminals DIN rail or panel mounting 	<ul style="list-style-type: none"> Hybrid current limit Relay precharge Integrated 6 kV transient protected 		
Application Logic	<ul style="list-style-type: none"> S-Curve acceleration/deceleration Configurable control terminal block 	<ul style="list-style-type: none"> Programmable output contact Auto boost and slip compensation 		
Operator Interface	<ul style="list-style-type: none"> Ready/Fault panel (standard) Program Keypad Module (optional) Remote Keypad Module (optional) 	<ul style="list-style-type: none"> Copycat Keypad Module (optional) DeviceNet Communication Module (optional) RS-232 Communication Module (optional) 		
Standards	<ul style="list-style-type: none"> UL Listed CE - Emissions, Immunity, Low Voltage 	<ul style="list-style-type: none"> Designed to meet international standards 		
Drive Protection	<ul style="list-style-type: none"> Under and Overvoltage Overcurrent Output phase-to-phase short circuit Ground fault protection in both start-up and run modes 	<ul style="list-style-type: none"> Output phase-to-ground short circuit Drive over temperature Built-in electronic overload protection (UL/IEC) 		
Nominal Ratings	0.37-4 kW (0.5-5 HP)			
Enclosure	<ul style="list-style-type: none"> IP20 Open Style IP20 Chassis Mount 	<ul style="list-style-type: none"> IP66 (NEMA 4 or 4X) Configured 		
Input Specifications	Single-Phase Voltage Three-Phase Voltage Frequency Faultless Ride Through Control Power Loss Ride Through	200-240V ± 10% 200-240V, 380-460V ±10% 47 to 63 Hz 100 mSec 2.0 Seconds (typical)		
Output Specifications	Voltage Frequency range Frequency resolution Continuous current Intermittent current Instantaneous current Speed regulation	Adjustable from 0V to nominal input voltage 0 to 240 Hz 0.1 Hz To 100% or rated current To 150% for 60 seconds To 300% 1%		
Drive Adjustments	Accel/Decel Frequency Stop Mode Current Limit Motor Overload Current Preset Speeds:	0.1 to 600 seconds in 0.1-second increments 1 to 240 Hz Ramp, Coast, DC Injection Braking 1 to 180% 1 to 200% <ul style="list-style-type: none"> 8 independently set preset speeds (Preset Model) 4 independently set preset speeds (Analog Model) 1 analog control and one preset speed (Analog Model) 		
Ambient Operating Temperatures	Standard IP20 (Open Style) Chassis Mount Nema 4/12/4X	0-50° C 0-50° C internal enclosure, 0-40° C external enclosure 0-40° C		
Dimensions in mm (inches)				
(Standard IP20 – Open Style)	.37 - 1.5 kW (.5-2 HP) 2.2 kW (3 HP) 4.0 kW (5 HP)	Height 152 (6.0") 152 (6.0") 193 (7.58")	Width 80 (3.15") 80 (3.15") 92 (3.62")	Depth 165 (6.51") 165 (6.51") 193 (7.61")

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