

Stand Alone Torque Control

1336 IMPACT™ AC Drive



Power Range

The **1336 IMPACT** drive is available in frame sizes capable of delivering between 0.37 and 597 kW (0.5 - 800 HP) in three voltage ranges: 200-240V AC, 380-480V AC and 500-600V AC.

Product Highlights

- Force Technology™ for demanding speed and torque performance with or without an encoder
- Patented current regulator for true control of motor torque, delivering full torque at zero speed
- Simple start-up for fast commissioning and quick auto-tuning of speed and torque using motor nameplate data
- 16-step speed profiling feature for changing speed based on time, encoder counts or hardware inputs through the L-option card
- Encoderless Switchover allows the drive to continue operation if encoder feedback signal is lost, minimizing downtime
- SCANport™ protocol provides common interface for programming devices
- Internal Process Trim Controller for integration with tension transducer devices
- Common power platform of 1336 PLUS II and 1336 FORCE™ family of drives
- Motor Temperature Compensation for matching actual torque output to the desired torque without using costly motor temperature sensors
- Basic Function Block Programming for specific applications adding flexibility to the drive

Communications

The **1336 IMPACT** drive is designed with integrated communications in mind. Key internally or externally mounted communications options include:

- ControlNet™
- DeviceNet™
- DriveTools32™ Software
- Flex™ I/O
- RS232/422/485 DF1, DH-485
- Remote I/O
- SLC 500™
- Other



*The **1336 IMPACT AC** drive with Force Technology provides the precise motor speed and torque control necessary to handle some of the most demanding drive applications, including many that are typically reserved for DC drives. Force Technology, an Allen-Bradley patented Field-Oriented Control method, has a proven and unique ability to separate and independently control motor flux and torque allowing the **1336 IMPACT** drive to deliver full torque down to zero speed.*



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Application Logic

- Internal process trim regulator
- Selectable speed/torque regulator modes
- 7 basic function blocks available
- UL-approved speed sensitive electronic overload
- Internal MOP
- Bus regulator
- Speed profiling, 16 programmable steps

Operator Interface

- Programmable analog and digital I/O
- SCANport communication interface
- 2-Line x 16-Character LCD Human Interface Module (HIM)

Standards

- UL Listed
- CSA Certified
- CE-Emissions, Immunity, Low Voltage
- Designed to Meet International Standards

Drive Protection

- Under and Over Voltage
- Overcurrent
- Output Phase-to-Phase & Phase-to-Ground Shorts
- Power logic control ride through

Input Specifications

Frequency	50/60 Hz ($\pm 3\%$)
Power Ride Through	15mS at full load
Control Ride Through	2.0 Sec (Typical / 0.5 Sec minimum)
Three-Phase Voltage	200-240V AC/380-480V AC/500-600V AC

Output Specifications

Voltage	Fully Programmable - 0 to Nominal Input Voltage
Frequency Range	0-250 Hz
Continuous Current	To 100% of Rated Current
Instantaneous Over Current Trip	200% of rated output current
Speed Regulation	Encoder 0.001% of top speed over a 100:1 speed range Encoderless 0.5% of top speed over a 120:1 speed range

Drive Adjustments

Speed/Torque Mode	5 options for selecting the drive torque reference
7 Speed References, 2 Jog Speeds	0 to ± 8 times base speed
Motor Frequency	1 to 250 Hz
Adjustable Current Limit	Programmable to 400% of rated current, not to exceed inverter rating
Motor Overload	150% to 400%
Process Trim PI Loop	Programmable to trim speed or torque
Bus/Brake Options	Choice of options for the bus filter reference, precharge/ride through conditions and braking

Ambient Operating Temperatures

Without Enclosure (IP00; Open Style)	0° to 50° C
With Enclosure (IP20; NEMA Type 1), (IP65; NEMA Type 4)	0° to 40° C

Dimensions in mm (inches) (380-480V) IP 20 (NEMA Type 1)

	Height	Width	Depth
.37-3.7kW (0.5-5 HP)	290.0 (11.42)	215.9 (8.50)	207.0 (8.15)
5.5-7.5kW (7.5-10 HP)	350.0 (13.78)	260.0 (10.24)	212.0 (8.35)
11-22kW (15-30 HP)	476.3 (18.75)	276.4 (10.88)	225.0 (8.86)
30-45kW (40-60 HP)	701.0 (27.60)	301.8 (11.88)	225.0 (8.86)
45-112kW (60-150 HP)	1240.0 (48.82)	381.5 (15.02)	270.8 (10.66)
112-187kW (150-250 HP)	1498.6 (59.00)	511.0 (20.12)	635.0 (25.00)
224-336kW (300-450 HP)	2286.0 (90.00)	762.1 (30.00)	424.4 (16.71)
224-597kW (300-800 HP)	2324.1 (91.50)	762.1 (30.00)	635.0 (25.00)

1336 IMPACT, Force Technology, SCANport, 1336 FORCE, Flex, PLC, and SLC are trademarks of Allen-Bradley Co., Inc. DeviceNet is a trademark of the Open DeviceNet Vendor Association. ControlNet is a trademark of ControlNet International, Ltd.

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Americas Headquarters, 1201 South Second Street, Milwaukee, WI 53204, USA, Tel: (1) 414 382-2000, Fax: (1) 414 382-4444
European Headquarters SA/NV, avenue Herrmann Debroux, 46, 1160 Brussels, Belgium, Tel: (32) 2 663 06 00, Fax: (32) 2 663 06 40
Asia Pacific Headquarters, 27/F Citicorp Centre, 18 Whitfield Road, Causeway Bay, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846

