

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
- Patented current regulator provides true control of motor torque, can deliver full torque at zero speed
- Simple Start-Up feature provides for fast commissioning and quick auto-tuning of speed and torque loops using motor nameplate data
- Encoderless Field-Oriented Control
- SCANport™ protocol provides common interface for programming devices
- Internal Process Trim Controller
- Common power platform of 1336 PLUS and 1336 FORCE™ family of drives
- Motor Temperature Compensation to help assure actual torque output matches the desired torque without using costly motor temperature sensors
- Basic Function Block Programming adds flexibility to the drive and provides basic functions to program for specific applications
- Each Configurable Relay Output can indicate one of 36 functions in the drive

Communications

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

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



1336 IMPACT

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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AB Parts

Application Logic	<ul style="list-style-type: none"> • Internal process trim regulator • Selectable speed/torque regulator modes • 7 basic function blocks available 	<ul style="list-style-type: none"> • UL-approved speed sensitive electronic overload • Internal MOP • Bus regulator
Operator Interface	<ul style="list-style-type: none"> • Programmable analog and digital I/O • SCANport communication interface 	<ul style="list-style-type: none"> • 2-Line x 16-Character LCD Human Interface Module (HIM)
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
Drive Protection	<ul style="list-style-type: none"> • Under and Over Voltage • Overcurrent 	<ul style="list-style-type: none"> • Output Phase-to-Phase & Phase-to-Ground Shorts • Power logic control ride through
Input Specifications	Frequency Power Ride Through Control Ride Through Three-Phase Voltage	50/60 Hz ($\pm 3\%$) 15mS at full load 2.0 Sec (Typical / 0.5 Sec minimum) 200-240V AC/380-480V AC/500-600V AC
Output Specifications	Voltage Frequency Range Continuous Current Instantaneous Over Current Trip Speed Regulation	Fully Programmable - 0 to Nominal Input Voltage 0-250 Hz To 100% of Rated Current 200% of rated output current 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 7 Speed References, 2 Jog Speeds Motor Frequency Adjustable Current Limit Motor Overload Process Trim PI Loop Bus/Brake Options	5 options for selecting the drive torque reference 0 to ± 8 times base speed 1 to 250 Hz Programmable to 400% of rated current, not to exceed inverter rating 150% to 400% Programmable to trim speed or torque Choice of options for the bus filter reference, precharge/ride through conditions and braking
Ambient Operating Temperatures	Without Enclosure (IP00; Open Style) With Enclosure (IP20; NEMA Type 1), (IP65; NEMA Type 4)	0° to 50°C 0° to 40°C

Dimensions - mm (inches) (380-480V) IP20 (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 (40-60HP)	701.0 (27.60)	301.8 (11.88)	225.0 (8.86)
45-112kW (60-150HP)	1240.0 (48.82)	381.5 (15.02)	270.8 (10.66)
112-187kW (150-250HP)	1498.6 (59.00)	511.0 (20.12)	635.0 (25.00)
224-336kW (300-450HP)	2286.0 (90.00)	762.1 (30.00)	424.4 (16.71)
224-597kW (300-800HP)	2324.1 (91.50)	762.1 (30.00)	635.0 (25.00)

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