Description

The 1336 SPIDER AC Drive is a microprocessor based drive that provides a PWM adjustable frequency and voltage output for exceptional control of motor speed and torque. The output can be tuned to provide optimum performance under a wide variety of load conditions.

The 1336 SPIDER is rated in terms of peak output amps for use with synchronous reluctance and permanent magnet synchronous motors. The drive is available in peak (synchronizing) current ratings from 21.6A to 60.0A at 200-240VAC and from 9.9A to 33.0A at 380-480VAC. Drive mounting is available as IP20 (Open Type). There is a limited offering of factory mounted options along with several option kits for user installation. The 1336 SPIDER Drive can also be used with DriveTools32™ Suite, a family of software products that let you program, monitor, and troubleshoot the drive.

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Conformity to Standards

The 1336 SPIDER conforms to the following standards:

Standard	Approved
UL Listed	Pending
CSA Certified (C-UL)	Pending
CE	✔

Catalog Number Explanation

The diagram below describes the 1336 SPIDER catalog numbering scheme.

1336Z – P A 022 – N – GM1

First Position
Bulletin Number

Second Position
Drive Types

Letter	Type
P	Programmable Controller Control
S	Stand-Alone Control

Third Position
Voltage

Letter	Voltages
A	200-240V AC or 310V DC
B	380-480V AC or 513-620V DC

Fourth Position
Peak Current Rating

Code	Peak Current
022	21.6A
036	36.0A
060	60.0A
010	9.9A
017	16.5A
033	33.0A

Fifth Position
Enclosure Type

Code	Type
N	IP 20 (Open Type) with Line Choke
AE	IP 20 (Open Type) with EMC Filter

Sixth Position
Options❶

Code	Description

Communication Options

GM1	Single Point Remote I/O
GM2	RS-232/422/485, DF1 & DH485
GM5	DeviceNet™
GM6	Enhanced DeviceNet

Product Selection

1336 SPIDER PLC Drive

Voltage Rating	Current Rating❷ Peak	Current Rating❷ Continuous	IP 20 (Open Type) with Line Choke Code	✳	IP 20 (Open Type) with EMC Filter Code	✳
200-240V AC or 310V DC	21.6A	9.0A	PA022-N		PA022-AE	
	36.0A	15.0A	PA036-N		PA036-AE	
	60.0A	30.0A	PA060-N		PA060-AE	
380-480V AC or 513-620V DC	9.9A	8.5A	PB010-N		PB010-AE	
	16.5A	10.0A	PB017-N		PB017-AE	
	33.0A	17.0A	PB033-N		PB033-AE	

1336 SPIDER Stand-Alone Drive

Voltage Rating	Current Rating❷ Peak	Current Rating❷ Continuous	IP 20 (Open Type) with Line Choke Code	✳	IP 20 (Open Type) with EMC Filter Code	✳
200-240V AC or 310V DC	21.6A	9.0A	SA022-N		SA022-AE	
	36.0A	15.0A	SA036-N		SA036-AE	
	60.0A	30.0A	SA060-N		SA060-AE	
380-480V AC or 513-620V DC	9.9A	8.5A	SB010-N		SB010-AE	
	16.5A	10.0A	SB017-N		SB017-AE	
	33.0A	17.0A	SB033-N		SB033-AE	

1336 SPIDER User Manuals

Used with . . .	Language	Catalog Number	✳
All Drives	English	1336Z-UM-EN	
	German❸	1336Z-UM-DE	
	Spanish❸	1336Z-UM-ES	
	Italian❸	1336Z-UM-IT	
	Portuguese❸	1336Z-UM-PT	
	Chinese❸	1336Z-UM-ZH	

❶ At least one HIM or Communication Board Option will be required to make the drive functional. The chosen option(s) may be ordered factory installed (if available) or as a User Installed Option.
❷ 50 degree C. ambient, 2kHz carrier frequency.
❸ Not available at time of printing.

Factory Installed Options

Communication and Interface Options

Description	Used With . . .	Option Code	✻
Communication Options – Drive Main Control Board Mounted			
Single Point RI0	All Drives	-GM1❶	
RS232/422/485, DF1 & DH485 Protocol		-GM2❶	
DeviceNet		-GM5❶	
Enhanced DeviceNet		-GM6❶	

User Installed Options

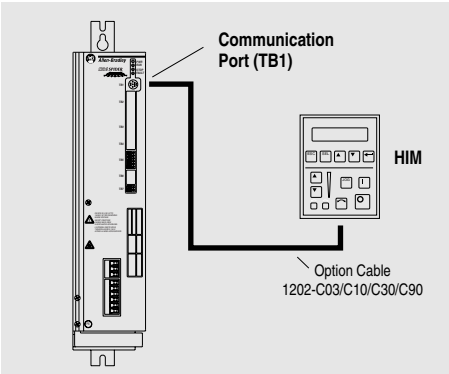
Analog Interface Kits — Stand-Alone Drives Only

Description❷	Used with . . .	Catalog Number *(Loose Kit)*	✻
Single-ended, Non-isolated Configurable (including Pot) Input & 2 Single-ended, Non-isolated Outputs (1 - Configurable, 1 - 20mA)	Slot B on All Stand-alone Drives *(Choose One)*	1336F-LA1	
Two Isolated Configurable Outputs		1336F-LA3	
One Isolated Configurable Input & Output		1336F-LA4	
One Isolated Pulse Input, One Non-isolated Pulse Output and One Single-ended, Non-isolated Configurable Output		1336F-LA5	
Two Isolated Configurable Inputs	Slot A on All Stand-alone Drives *(Choose One)*	1336F-LA2	
One Isolated Bi-polar Input (±10V or ±20mA) and One Isolated Thermistor Input		1336F-LA6	
One Isolated Bi-polar Input (±10V or ±20mA) and One Isolated Configurable Input		1336F-LA7	

DriveTools32™ Suite

Description	
DriveTools32 Software	See A-B publication 9303-3.0 for ordering/pricing information

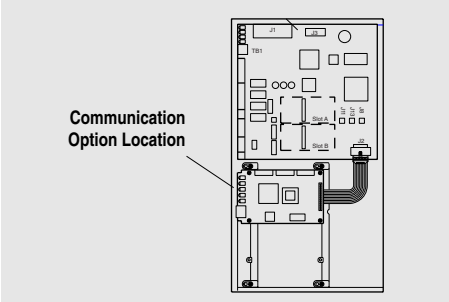
Human Interface Module (HIM) Kits



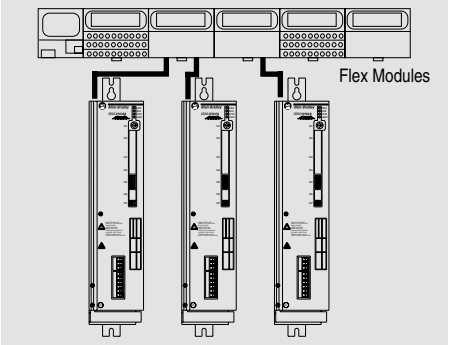
Description	Used with . . .	Catalog Number *(Loose Kit)*	✻
IP 20 (NEMA Type 1) HIM, Hand-Held	All Drives		
Requires Cable Below			
Programmer Only		1201-HAP	
Programmer/Controller w/Analog Speed Pot.		1201-HA1	
Programmer/Controller w/Digital Speed Pot.		1201-HA2	

❶ A maximum of 1 communication option may be ordered factory installed.
❷ Configurable Inputs and Outputs are 10V or 20mA.

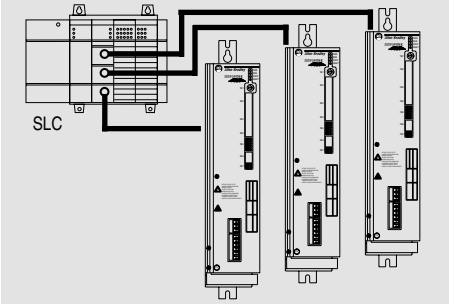
Communication Option Kits



GM1/GM2, GM5/GM6 – Typical Configuration



FB1 and FM1 – Typical Configuration



SM1 – Typical Configuration

Description	Used with . . .	Catalog Number *(Loose Kit)*	✳
Drive Mounted and Drive Powered) Single Point RIO RS232/422/485, DF1 and DH485 Protocol DeviceNet Enhanced DeviceNet	All Drives	 1336-GM1 1336-GM2 1336-GM5 1336-GM6	
Flex™ I/O SCANport Module ❶ Flex I/O Terminal Base Flex I/O Module Each FM1/FB1 combination provides a connection for up to 2 drive products.	All Drive Ratings	 1203-FB1 ❶ 1203-FM1 ❶❷	
SLC™ Communication Module (SLC 500 to SCANport Module) Provides a connection for up to 3 drive products.	All Drive Ratings	1203-SM1 ❷	
Communication Option Cable Kit 0.33 Meters (1.1 Feet) 1 Meter (3.3 Feet) 3 Meter (9.8 Feet) 9 Meter (29.5 Feet)	All HIMs and External Communication Options Listed	 1202-C03 1202-C10 1202-C30 1202-C90	
SCANport™ Expander Option One to Two Port Expander Module One to Four Port Expander Module One to Two Port Splitter Cable	All Drives	 1203-SG2 1203-SG4 1203-S03	

❶ Each Flex I/O SCANport Module requires (1) 1203-FB1 and (1) 1203-FM1.
❷ Requires a Communication Option Cable (1202-C03/C10/C30/C90) to be functional.

Encompass Partner Products

The following Encompass Partner Products **are not** Allen-Bradley products and **cannot** be ordered through **PASSPORT**.

Resistor assemblies listed are manufactured by IPC Power Resistors Int'l, Inc. and have been tested with the 1336 SPIDER Drive. Equivalent resistor packages may be used if they conform to the ratings shown.

Available resistor assembly options include an overtemperature switch, auxiliary terminal blocks and custom enclosures.

Brake Selection

Voltage Rating	Drive Catalog No.	Dynamic Brake Current ❶	IPC Catalog Number ❷	Brake Resistor	
				Resistance	Power
200-240V	A022	15A	556-1	25 Ohms	1850 Watts
	A036	15A	556-1	25 Ohms	1850 Watts
	A060	23A	556-2	16 Ohms	2790 Watts
380-480V	B010	10A	556-3	75 Ohms	2475 Watts
	B017	14A	556-4	53 Ohms	3428 Watts
	B033	17A	556-5	43 Ohms	4100 Watts

❶ The dynamic braking current is only defined by the external resistor. There is no internal current control nor short circuit protection. Respective measures as bimetal relay, klixon etc. have to be taken externally.
❷ 100% braking torque at 20% duty cycle.

For further information, contact:

IPC Power Resistors Int'l, Inc.
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Florence, Kentucky 41042-7453
Tel. (606) 282-2900 Fax. (606) 282-2904