

1336 PLUS II Selection Guide



Catalog Number Explanation

1336F	A007	AA	EN	LA6	HAS1	GM1
BULLETIN NO.	VOLTAGE/RATING	ENCLOSURE (MUST BE SPECIFIED)	LANGUAGE (MUST BE SPECIFIED) ¹	CONTROL INTERFACE (OPTIONAL) ²	HUMAN INTERFACE (OPTIONAL) ²	COMMUNICATION CARD (OPTIONAL) ²

¹ A Language Module must be specified with each drive.

² At least one of either a Control Interface, Human Interface or Communication Card Option will be required to make the drive functional. The chosen option(s) may be ordered factory installed or as add-on kits.

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Constant/Variable Torque Drives and Enclosures

200-240V

Drive Rating ¹ Constant Torque				Open IP00	NEMA Type 1 IP20	NEMA Type 4 IP65	NEMA Type 12 IP54
Amps	kW	CT HP	VT HP ²	No Enclosure	General Purpose	Resist Water, Dust	Industrial Use
2.3	0.37	0.5	0.5	AQF05 – AN	AQF05 – AA	AQF05 – AF	AQF05 – AJ
3.0	0.56	0.75	0.75	AQF07 – AN	AQF07 – AA	AQF07 – AF	AQF07 – AJ
4.5	0.75	1	1	AQF10 – AN	AQF10 – AA	AQF10 – AF	AQF10 – AJ
6.0	1.2	1.5	1.5	AQF15 – AN	AQF15 – AA	AQF15 – AF	AQF15 – AJ
8.0	1.5	2	2	AQF20 – AN	AQF20 – AA	AQF20 – AF	AQF20 – AJ
12	2.2	3	3	AQF30 – AN	AQF30 – AA	AQF30 – AF	AQF30 – AJ
18	4.0	5	5	AQF50 – AN	AQF50 – AA	AQF50 – AF	AQF50 – AJ
22	5.5	7.5	7.5	AQF75 – AN	AQF75 – AA	AQF75 – AF	AQF75 – AJ
22	5.5	7.5	7.5	A007 – AN	A007 – AA	A007 – AF	A007 – AJ
34	7.5	10	10	A010 – AN	A010 – AA	A010 – AF	A010 – AJ
48	11	15	15	A015 – AN	A015 – AA	A015 – AF	A015 – AJ
65	15	20	20	A020 – AN	A020 – AA	A020 – AF	A020 – AJ
77	18.5	25	25	A025 – AN	A025 – AA	A025 – AF	A025 – AJ
80	22	30	30	A030 – AN	A030 – AA	A030 – AF	A030 – AJ
120	30	40	40	A040 – AN	A040 – AA	3	3
150	37	50	50	A050 – AN	A050 – AA	3	3
180	45	60	60	A060 – AN	A060 – AA	3	3
240	56	75	75	A075 – AN	A075 – AA ⁹	3	3
291	75	100	100	A100 – AN	A100 – AA ⁹	3	3
325	93	125	125	A125 – AN	A125 – AA ⁹	3	3

380-480V

Drive Rating ¹ Constant Torque		Variable Torque		Drive Rating ¹ Constant Torque		Variable Torque		Open IP00	NEMA Type 1 IP20	NEMA Type 1 IP20	NEMA Type 4 IIP65	NEMA Type 12 IP54
Amps	HP	Amps	HP ²	Amps	kW	Amps	kW	No Enclosure	General Purpose	CE/C-tick Conformance	Resist Water, Dust	Industrial Use
1.1	0.5	1.2	0.5	1.1	0.37	1.2	0.37	BRF05 – AN	BRF05 – AA	BRF05 – AE	BRF05 – AF	BRF05 – AJ
1.6	0.75	1.7	0.75	1.6	0.56	1.7	0.56	BRF07 – AN	BRF07 – AA	BRF07 – AE	BRF07 – AF	BRF07 – AJ
2.1	1	2.3	1	2.1	0.75	2.3	0.75	BRF10 – AN	BRF10 – AA	BRF10 – AE	BRF10 – AF	BRF10 – AJ
2.8	1.5	3.0	1.5	2.8	1.2	3.0	1.2	BRF15 – AN	BRF15 – AA	BRF15 – AE	BRF15 – AF	BRF15 – AJ
3.8	2	4.0	2	3.8	1.5	4.0	1.5	BRF20 – AN	BRF20 – AA	BRF20 – AE	BRF20 – AF	BRF20 – AJ
5.3	3	6.0	3	5.3	2.2	6.0	2.2	BRF30 – AN	BRF30 – AA	BRF30 – AE	BRF30 – AF	BRF30 – AJ
8.4	5	9.0	5	8.4	3.7	9.0	3.7	BRF50 – AN	BRF50 – AA	BRF50 – AE	BRF50 – AF	BRF50 – AJ
13.3	7.5	15.4	10	13.3	5.5	15.4	7.5	BRF75 – AN	BRF75 – AA	BRF75 – AE	BRF75 – AF	BRF75 – AJ
16.1	10	22.0	15	16.1	7.5	22.0	11	BRF100 – AN	BRF100 – AA	BRF100 – AE	BRF100 – AF	BRF100 – AJ
24.0	15	24.0	15	24.0	11	24.0	11	BRF150 – AN	BRF150 – AA	BRF150 – AE	BRF150 – AF	BRF150 – AJ
27.0	20	27.0	20	27.0	15	27.0	15	BRF200 – AN	BRF200 – AA	BRF200 – AE	BRF200 – AF	BRF200 – AJ
24.2	15	27	20	24.2	11	27	15	B015 – AN	B015 – AA	B015 – AE	B015 – AF	B015 – AJ
31	20	34	25	31	15	34	18.5	B020 – AN	B020 – AA	B020 – AE	B020 – AF	B020 – AJ
39	25	42	30	39	18.5	42	22	B025 – AN	B025 – AA	B025 – AE	B025 – AF	B025 – AJ
45	30	48	30	45	22	48	22	B030 – AN	B030 – AA	B030 – AE	B030 – AF	B030 – AJ
59	40	59	40	59	30	59	30	BX040 – AN	BX040 – AA	BX040 – AE	BX040 – AF	BX040 – AJ
60	40	65	50	60	30	65	37	B040 – AN	B040 – AA	B040 – AE	B040 – AF	B040 – AJ
75	50	75	60	75	37	75	45	B050 – AN	B050 – AA	B050 – AE	B050 – AF	B050 – AJ
77	60	77	60	77	45	77	45	BX060 – AN ⁴	BX060 – AA ⁴	BX060 – AE ⁴	BX060 – AF ⁴	BX060 – AJ ⁴
85	60	96	75	85	45	96	56	B060 – AN	B060 – AA	B060 – AE	3	3
106	75	120	100	106	56	120	75	B075 – AN	B075 – AA	B075 – AE	3	3
138	100	150	125	138	75	150	93	B100 – AN	B100 – AA	B100 – AE	3	3
173	125	180	150	173	93	180	112	B125 – AN	B125 – AA	B125 – AE	3	3
180	150	180	150	180	112	180	112	BX150 – AN	BX150 – AA	BX150 – AE	3	3
199	150	240	200	199	112	240	149	B150 – AN	B150 – AA ⁹	B150 – AE ⁹	3	3
263	200	292	250	263	149	292	187	B200 – AN	B200 – AA ⁹	B200 – AE ⁹	3	3
325	250	325	250	325	187	325	187	B250 – AN	B250 – AA ⁹	B250 – AE ⁹	3	3
325	250	360	300	325	187	360	224	BP250 – AN ⁷	BP250 – AA ^{7,9}	–	3	3
								BPR250 – AN ⁷	–	BPR250A – AE ^{7,8,9}	–	–
325	250	360	300	325	187	360	224	BX250 – AN	BX250A – AA ⁹	BX250A – AE ^{8,9}	3	3
360	300	425	350	360	224	425	261	B300 – AN	B300A – AA ⁹	B300A – AE ^{8,9}	3	3
360	300	425	350	360	224	425	261	BP300 – AN ⁷	BP300 – AA ^{7,9}	–	3	3
								BPR300 – AN ⁷	–	BPR300A – AE ^{7,8,9}	–	–
425	350	475	400	425	261	475	298	B350 – AN	B350A – AA ⁹	B350A – AE ^{8,9}	3	3
425	350	475	400	425	261	475	298	BP350 – AN ⁷	BP350 – AA ^{7,9}	–	3	3
								BPR350 – AN ⁷	–	BPR350A – AE ^{7,8,9}	–	–
475	400	525	450	475	298	525	336	B400 – AN	B400A – AA ⁹	B400A – AE ^{8,9}	3	3
475	400	532	450	475	298	532	336	BP400 – AN ⁷	BP400 – AA ^{7,9}	–	3	3
								BPR400 – AN ⁷	–	BPR400A – AE ^{7,8,9}	–	–
525	450	590	500	525	336	590	373	B450 – AN	B450A – AA ⁹	B450A – AE ^{8,9}	3	3
532	450	532	450	532	336	532	336	BP450 – AN ⁷	BP450 – AA ^{7,9}	–	3	3
								BPR450 – AN ⁷	–	BPR450A – AE ^{7,8,9}	–	–
590	500	670	600	590	373	670	448	B500 – AN	B500A – AA ⁹	B500A – AE ^{8,9}	3	3
670	600	670	600	670	448	670	448	B600 – AN	B600A – AA ⁹	B600A – AE ^{8,9}	3	3

See page 65 for footnotes.

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Constant/Variable Torque Drives and Enclosures

500-600V

Drive Rating ¹		CT HP	VT HP	Open IP00	NEMA Type 1 IP20	NEMA Type 4 IP65	NEMA Type 12 IP54
Amps	kW			No Enclosure	General Purpose	Resist Water, Dust	Industrial Use
2.0	0.75	1	1	CWF10 – AN	CWF10 – AA	CWF10 – AF	CWF10 – AJ
4.0	1.5	2	2	CWF20 – AN	CWF20 – AA	CWF20 – AF	CWF20 – AJ
6.0	2.2	3	3	CWF30 – AN	CWF30 – AA	CWF30 – AF	CWF30 – AJ
8.0	3.7	5	5	CWF50 – AN	CWF50 – AA	CWF50 – AF	CWF50 – AJ
10	5.5	7.5	7.5	CWF75 – AN	CWF75 – AA	CWF75 – AF	CWF75 – AJ
12	7.5	10	10	CWF100 – AN	CWF100 – AA	CWF100 – AF	CWF100 – AJ
19	11	15	15	CWF150 – AN	CWF150 – AA	CWF150 – AF	CWF150 – AJ
24	15	20	20	CWF200 – AN	CWF200 – AA	CWF200 – AF	CWF200 – AJ
30	18.5	25	25	C025 – AN	C025 – AA	C025 – AF	C025 – AJ
35	22	30	30	C030 – AN	C030 – AA	C030 – AF	C030 – AJ
45	30	40	40	C040 – AN	C040 – AA	C040 – AF	C040 – AJ
57	37	50	50	C050 – AN	C050 – AA	C050 – AF	C050 – AJ
62	45	60	60	C060 – AN	C060 – AA	C060 – AF	C060 – AJ
85	56	75	75	C075 – AN	C075 – AA	3	3
109	75	100	100	C100 – AN	C100 – AA	3	3
138	93	125	125	C125 – AN	C125 – AA	3	3
158	112	150	150	C150 – AN	C150 – AA ⁹	3	3
252	149	200	200	C200 – AN	C200 – AA ⁹	3	3
284	187	250	250	C250 – AN	C250 – AA ⁹	3	3
300	224	300	300	CX300 – AN	CX300 – AA ⁹	3	3
350	261	350	350	CP350 – AN ⁷	CP350 – AA ^{7,9}	3	3
				CPR350 – AN ⁷	–	3	3
400	298	400	400	CP400 – AN ⁷	CP400 – AA ^{7,9}	3	3
				CPR400 – AN ⁷	–	3	3
300	224	300	300	C300 – AN	C300A – AA ⁹	3	3
350	261	350	350	C350 – AN	C350A – AA ⁹	3	3
400	298	400	400	C400 – AN	C400A – AA ⁹	3	3
450	336	450	450	C450 – AN	C450A – AA ⁹	3	3
500	373	500	500	C500 – AN	C500A – AA ⁹	3	3
600	448	600	600	C600 – AN	C600A – AA ⁹	3	3

Language Group

Description	Used With . . .	Option Code
Language ⁵	All Drives	
English		-EN
French		-FR
German		-DE
Italian		-IT
Japanese		-JP
Spanish		-ES

Dynamic Brake Kits

Description	Used With . . .	Catalog Number Complete Brake	Catalog Number Brake Chopper
for 200-240V AC Drives	0.37-3.7 kW (0.5-5 HP) ⁶	-KA005	-WA018
	5.5-7.5 kW (7.5-10 HP) ⁶	-KA010	-WA018
	11-22 kW (15-30 HP) ⁶	NA	-WA070
	30-56 kW (40-75 HP) ⁶	NA	-WA115
for 380-480V AC Drives	0.37-3.7 kW (0.5-5 HP) ⁶	-KB005	-WB009
	5.5-7.5 kW (7.5-10 HP) ⁶	-KB010	-WB009
	11-37 kW (15-50 HP) ⁶	*KB050	-WB035
	45-149 kW (60-200 HP) ⁶	NA	-WB110
for 500-600V AC Drives	0.37-3.7 kW (0.5-5 HP) ⁶	-KC005	-WC009
	5.5-7.5 kW (7.5-10 HP) ⁶	-KC010	-WC009
	11-30 kW (15-40 HP) ⁶	*KC050	-WC035
	37-149 kW (50-200 HP) ⁶	NA	-WC085

¹ Drive rating is based on nominal voltage and carrier frequency at altitudes of 1000 meters or less. Refer to the Derating Guidelines on Pages 57-61.

² VT /HP ratings are valid for 240V or 480V only.

³ Not available in this rating.

⁴ 480 Volts only.

⁵ A Language Group must be specified with each drive for User Manual.

⁶ Multiple kits may be utilized together to obtain higher ratings. Refer to the appropriate brake publication (1336-5.64 or 5.65) for further information.

⁷ A "Common Mode Choke" option (-CM) or "No Common Mode Choke" option (-NCM) must be specified with each F Frame Drive.

⁸ These units include as standard an integral EMC filter.

⁹ This drive will not accept a "Snap-In" HIM (HASP, HAS1, HAS2, HCSP, HCS1, HCS2).

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Factory Installed Options

Description	Used With . . .	Option Code (Installed)
Communication Options Single Point RIO RS232/422/485, DF1 & DH485 Protocol DeviceNet Enhanced DeviceNet	Frames B & Up (Adapter 6 Only)	-GM1 ³ -GM2 ³ -GM5 ³ -GM6 ³
Communication Options Single Point RIO with Snap-In Cradle RS232/422/485, DF1 & DH485 Protocol w/Snap-In Cradle DeviceNet Enhanced DeviceNet Snap-In Cradle/Blank Plate	All Frames (Adapter 1 Only)	-GMS1 ³ -GMS2 ³ -GMS5 ³ -GMS6 ³ -HASB ³
Control Interface Contact Closure +24V AC/DC 115V AC	All Drives	-L4 -L5 -L6
Control Interface with Encoder Feedback Contact Closure +24V AC/DC 115V AC	All Drives	-L4E -L5E -L6E
Control Interface with Encoder Feedback ⁵ Contact Closure +24V AC/DC 115V AC	All Drives	-L7E -L8E -L9E
Analog Interface – Port A (Choose One) Two Isolated Configurable Inputs One Isolated Bi-Polar Input (±10V) and One Isolated Thermistor Input One Isolated Bi-polar Input (±10V) and One Isolated Configurable Input	All Drives	-LA2 -LA6 -LA7
Analog Interface – Port B (Choose One) Single-ended, Non-isolated Input Configurable or Pot & 2 Single-ended, Non-isolated 0-20mA Outputs Two Isolated Configurable Outputs One Isolated Configurable Input & Output One Isolated Pulse Input & Non-isolated Output and One Single-ended, Non-isolated 0-10V Output	All Drives	-LA1 -LA3 -LA4 -LA5
Human Interface Module, Snap-In IP20 (NEMA Type 1) Snap-In Cradle/Blank Plate Programmer Only Programmer Only & Upload/Download Capability Programmer/Controller with Analog Pot Programmer/Controller with Analog Pot & Upload/Download Capability Programmer/Controller with Digital Pot Programmer/Controller with Digital Pot & Upload/Download Capability	IP00 (Open) A-G Frame & IP20 (NEMA Type 1) A-D Frame Drives	-HASB -HASP -HCSP -HAS1 -HCS1 -HAS2 -HCS2
Human Interface Module, IP20 (NEMA Type 1) Programmer Only Programmer/Controller with Analog Pot Programmer/Controller with Digital Pot	IP20 (NEMA Type 1) E-G Frame Enclosures	-HAP ² -HA1 ² -HA2 ²
Human Interface Module, IP66 ¹ Programmer/Display Only Programmer/Controller with Digital Pot	IP66 or IP54 (NEMA Type 12) Drives	-HJP -HJ2

¹ This option may be used on an IP65 or IP66 rated enclosure to meet watertight indoor applications.

² Requires a Communication Option Cable (1202-Cxx) to be functional.

³ A maximum of one Communication Option may be ordered factory installed on A Frame drives (2 for B Frame drives and up, limited to 1-Snap-in and 1-Main Control Board mount).

⁴ Each Flex I/O SCANport Module requires (1) 1203-FB1 and (1) 1203-FM1.

⁵ The encoder loss detection feature of the 1336 PLUS II requires the use of L7E, L8E or L9E.

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Field Installed Options

Description	Used With . . .	Catalog No. (Loose Kit)
Remote Mounted w/Integral 115V AC Power Supply Single Point RIO RS 232/422/485, DF1, DH485	All Drives	1203-GD1 ² 1203-GD2 ²
Remote Mounted for use with 24V DC Power Supply Single Point RIO RS232/422/485, DF1, DH485 DeviceNet Enhanced DeviceNet	All Drives	1203-GK1 ² 1203-GK2 ² 1203-GK5 ² 1203-GU6 ²
Drive Mounted and Drive Powered (with loose snap-in cradle/blank plate) Single Point RIO RS232/422/485, DF1, DH485 Protocol DeviceNet Enhanced DeviceNet	A Frame Drives – Adapter 1 w/Snap-in Cradle/Blank Plate B Frame & Up – Adapter 6 (or Adapter 1 w/Snap-in Cradle/Blank Plate)	1336-GM1 ³ 1336-GM2 ³ 1336-GM5 ³ 1336-GM6 ^{3,5}
Firmware Download Module Module allows firmware upgrade	All Drives	1336F-FDM
ControlNet™ to SCANport Adapter Remote Mounted (DIN Rail) - 24V DC Requires 24V DC power supply	All Drives	1203-CN1 ^{3,5}
Smart Serial to SCANport Adapter Includes 1203-SFC & 1202-C10 Cables	All Drives	1203-SSS
SCANport Expander Module One to Two One to Four	All Drives	1203-SG2 1203-SG4
Flex I/O SCANport Module ⁴ Flex I/O Terminal Base Flex I/O Module	All Drives	1336-FB1 1336-FM1
HIM, Snap-In, IP20 (NEMA Type 1) Snap-In Cradle/Blank Plate Programmer Only Programmer Only & Upload/Download Capability Programmer/Controller with Analog Pot Programmer/Controller with Analog Pot & Upload/Download Capability Programmer/Controller with Digital Pot Programmer/Controller with Digital Pot & Upload/Download Capability	IP00 (Open) A-G Frame & IP20 (NEMA Type 1) A-D Frame Drives	1201-HASB 1201-HASP 1201-HCSP 1201-HAS1 1201-HCS1 1201-HAS2 1201-HCS2
HIM, Hand-Held, IP20 (NEMA Type 1) Requires Cable Below Programmer Only Programmer/Controller w/Analog Speed Pot Programmer/Controller w/Digital Speed Pot	IP20 (NEMA Type 1) E-G Frame Enclosures	1201-HAP 1201-HA1 1201-HA2
HIM IP66 (NEMA Type 12/UL Type 4X-Indoor) Programmer Only Programmer/Controller w/Digital Speed Pot	IP66 (NEMA Type 12/UL Type 4X Indoor) Enclosures	1201-HJP ² 1201-HJ2 ²
Option Cable Kit - Connect to Comm. Port 0.33 Meters (1.1 Feet) 1 Meter (3.3 Feet) 3 Meter (9.8 Feet) 9 Meter (29.5 Feet)	All HIMs not mounted on the drive chassis	1202-C03 1202-C10 1202-C30 1202-C90
Door Mount Bezel Kit, IP20 (NEMA Type 1)	User Supplied IP20 (NEMA Type 1) Enclosures and HIM	1201-DMA

¹ This option may be used on an IP65 or IP66 rated enclosure to meet watertight indoor applications.

² Requires a Communication Option Cable (1202-Cxx) to be functional.

³ A maximum of one Communication Option may be drive mounted.

⁴ Each Flex I/O SCANport Module requires (1) 1203-FB1 and (1) 1203-FM1.

⁵ Adapter is programmed/configured with Windows™ HyperTerminal via RS-232 using the 1203-SFC cable (purchased separately), or using a compatible network specific software tool.