

E700 Series MICRO VARIABLE SPEED DRIVES

Simple to Use

- Standard M-dial and display makes setup and monitoring easy
- USB port allows setup & troubleshooting via PC
- RJ45 port supports optional alpha numeric keypad

Adaptable

- Removable control I/O card simplifies wiring
- Connection to various networks possible using option card
- Increased I/O possible with installed option card
- Special I/O cards tailored to meet specific applications

Simple to Maintain

- 10 year maintenance free design life
- Self diagnostic warnings for key internal components
- Easy to replace cooling fan requiring no tools

Certified

- UL / cUL / CE approved
- RoHS compliant
- Approved at 100K Symmetrical Amps



Increased Performance. . .
Unsurpassed Quality

Features

- Available in 240V and 480V up to 20HP
- Available in 115V up to 1HP
- Advanced Magnetic Flux Vector Control for improved starting torque and smooth low speed motor operation
- Auto-tuning allows improved performance using virtually any manufacturer's motor
- All capacities include built-in brake chopper
- USB communications allow fast commissioning and troubleshooting
- Standard RS485 serial communications supporting Modbus® RTU
- Sink / Source selectable I/O

- Supports remote I/O function via network
- Built-in PID Control
- Delivers rated current at 50°C and 14.5kHz carrier frequency with minimal de-rating
- 200% overload for 3 seconds
- 0 to 10V analog output
- CC-Link®, DeviceNet™, Profibus-DP, LonWorks®
- Standard 5 year warranty

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Output Amps	HP	Model Number	Dimensions in inches (mm)			Weight Lbs (kg)
			Height	Width	Depth	
3-Phase 200~240VAC Input & Output						
0.8	1/8	FR-E720-008-NA	5.0 (128)	2.7 (68)	3.2 (81)	1.1 (0.5)
1.5	1/4	FR-E720-015-NA				
3	1/2	FR-E720-030-NA	5.0 (128)	2.7 (68)	4.5 (113)	1.6 (0.7)
5	1	FR-E720-050-NA	5.0 (128)	2.7 (68)	5.3 (133)	2.2 (1.0)
8	2	FR-E720-080-NA	5.0 (128)	4.3 (108)	5.4 (136)	3.1 (1.4)
11	3	FR-E720-110-NA				
17.5	5	FR-E720-175-NA	5.0 (128)	6.7 (170)	5.7 (143)	3.8 (1.7)
24	7 1/2	FR-E720-240-NA	10.3 (260)	7.1 (180)	6.5 (165)	9.5 (4.3)
33	10	FR-E720-330-NA				
47	15	FR-E720-470-NA	10.3 (260)	8.7 (220)	7.5 (190)	19.9 (9)
60	20	FR-E720-600-NA				
1-Phase 200~240VAC Input & 3-Phase 200~240VAC Output						
0.8	1/8	FR-E720S-008-NA	5.0 (128)	2.7 (68)	3.2 (81)	1.3 (0.6)
1.5	1/4	FR-E720S-015-NA				
3	1/2	FR-E720S-030-NA	5.0 (128)	2.7 (68)	5.7 (143)	2.0 (0.9)
5	1	FR-E720S-050-NA	5.0 (128)	4.3 (108)	5.4 (136)	3.1 (1.4)
8	2	FR-E720S-080-NA	5.0 (128)	4.3 (108)	6.4 (161)	3.3 (1.5)
11	3	FR-E720S-110-NA	5.9 (150)	5.5 (140)	6.2 (156)	4.4 (2.0)
3-Phase 380~480VAC Input & Output						
1.6	1/2	FR-E740-016-NA	5.9 (150)	5.5 (140)	4.5 (114)	3.1 (1.4)
2.6	1	FR-E740-026-NA				
4	2	FR-E740-040-NA	5.9 (150)	5.5 (140)	5.4 (135)	4.2 (1.9)
6	3	FR-E740-060-NA				
9.5	5	FR-E740-095-NA	5.9 (150)	8.7 (220)	5.8 (147)	7.1 (3.2)
12	7 1/2	FR-E740-120-NA				
17	10	FR-E740-170-NA	10.3 (260)	8.7 (220)	7.5 (190)	13.0 (5.9)
23	15	FR-E740-230-NA				
30	20	FR-E740-300-NA				
1-Phase 100~115VAC Input & 3-Phase 200~240VAC Output						
0.8	1/8	FR-E710W-008-NA	5.0 (128)	2.7 (68)	3.2 (81)	1.3 (0.6)
1.5	1/4	FR-E710W-015-NA	5.0 (128)	2.7 (68)	4.4 (111)	1.5 (0.7)
3	1/2	FR-E710W-030-NA	5.0 (128)	2.7 (68)	5.7 (143)	2.0 (1.9)
5	1	FR-E710W-050-NA	5.0 (128)	4.3 (108)	6.1 (155)	3.3 (1.5)

Plug-In Options

Model Number*	Description
FR-A7NC E KIT	CC-Link Network Option
FR-A7ND E KIT	DeviceNet Network Option
FR-A7NP E KIT	Profibus-DP Network Option
FR-A7NL E KIT	LonWorks Network Option
FR-A7AX E KIT	Additional 16-bit Digital Input
FR-A7AY E KIT	Additional Analog & Digital Output
FR-A7AR E KIT	Additional Relay Output

*FR-A7□□ E KIT includes plug-in option card and new E700 top cover.

External Options

Model Number	Description
FR-PU07	Alpha-Numeric multi-language keypad
FR-PU07BB-L	Battery powered Alpha-Numeric multi-language keypad
FR-CB20□	Keypad extension cable
SC-FRPC	Serial communications cable
FR-ABR-□□K	External brake resistor

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