

The Micro-Drive Solution

FR-D700

PRODUCT FLYER

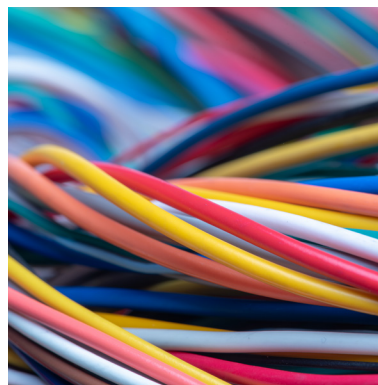


Compact design, easy wiring and maintenance as well as excellent performance features. With simple and safe operability it can comply with the safety standards easily. Typical applications are feeder and conveyor drives, machining tools or gate and door drives.



Safety Stop Function

Without the addition of external devices, the integrated emergency stop function for safety shutdown makes the FR-D700 highly reliable.



Easy Wiring

With the integrated spring clamp terminals to connect control and power lines, the wiring became easier and more secure.



Self-diagnosis

The inverter actively monitors degrees of deterioration of main circuit capacitor, control and inrush current limit. Trouble can be avoided with self-diagnosis alarms.

Features

- » Simple cabling
- » Easy setup
- » Integrated control unit
- » Simple network connection
- » Side by side mounting
- » Integrated emergency stop function
- » Password function
- » Remote I/O
- » Long lifetime

SPECIFICATIONS

Three-phase 400 V power supply								
FR-D740 (kW)		0.4	0.75	1.5	2.2	3.7	5.5	7.5
FR-D740-□□□SC-EC		012	022	036	050	080	120	160
Applicable motor capacity (kW)		0.4	0.75	1.5	2.2	3.7	5.5	7.5
Output	Rated capacity (kVA)	0.9	1.7	2.7	3.8	6.1	9.1	12.2
	Rate current (A)	1.2	2.2	3.6	5.0	8.0	12.0	16.0
	Overload current rating	150% 60 s, 200% 0.5 s (inverse-time characteristics)						
	Rated voltage	Three-phase 380 to 480 V						
	Regenerative braking torque	100%		50%		20%		
Power supply	Rated input AC voltage/frequency	Three-phase 380 to 480 V 50 Hz/60 Hz						
	Permissible AC voltage fluctuation	325 to 528 V 50 Hz/60 Hz						
	Permissible frequency fluctuation	±5%						
	Power supply capacity (kVA)	1.5	2.5	4.5	5.5	9.5	12.0	17.0
Protective structure (JEM1030)		Enclosed type (IP20)						
Cooling system		Self-cooling			Forced air cooling			
Approximate mass (kg)		1.3	1.3	1.4	1.5	1.5	3.3	3.3

Single-phase 200 V power supply								
FR-D720S (kW)		0.1	0.2	0.4	0.75	1.5	2.2	
FR-D720S-□□□SC-EC		008	014	025	042	070	100	
Applicable motor capacity (kW)		0.1	0.2	0.4	0.75	1.5	2.2	
Output	Rated capacity (kVA)	0.3	0.6	1.0	1.7	2.8	4.0	
	Rate current (A)	0.8	1.4	2.5	4.2	7.0	10.0	
	Overload current rating	150% 60 s, 200% 0.5 s (inverse-time characteristics)						
	Rated voltage	Three-phase 200 to 240 V						
	Regenerative braking torque	150%		100%		50%		20%
Power supply	Rated input AC voltage/frequency	Single-phase 200 to 240 V 50 Hz/60 Hz						
	Permissible AC voltage fluctuation	170 to 264 V 50 Hz/60 Hz						
	Permissible frequency fluctuation	±5%						
	Power supply capacity (kVA)	0.5	0.9	1.5	2.3	4.0	5.2	
Protective structure (JEM1030)		Enclosed type (IP20)						
Cooling system		Self-cooling			Forced air cooling			
Approximate mass (kg)		0.5	0.5	0.9	1.1	1.5	2.0	

Notes:

For the FR-D700 series, North American (NA), EU (EC), and Chinese (CHT) specifications also are supported.

EMC directive compliant noise filter. Noise filter option which is compatible with EMC directive (EN61800-3 2nd Environment Category C3) is available.

Catalogue

<https://bit.ly/FR-D700>

e-Learning

<https://www.mitsubishielectric.com/fa/assist/e-learning/eng.html>



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