Micro-Drive Solution

FR-D700

PRODUCT FLYER

The Mitsubishi Electric FR-D700 Inverters offer 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. The Engineering software FR Configurator 2, facilitates operations from inverter start-up to maintenance.

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

MITSUBISHI ELECTRIC

For further information contact

Email: iasw@meaust.meap.com
Website: MitsubishiElectric.com.au

The specifications and information in this flyer are subject to change without notice. Colours depicted in this flyer may vary slightly. Images are for illustrational purposes only.
Printed March 2021. © Mitsubishi Electric 2021