

Official Product Identity Mapping

FR-D740-3.7K-CHT

Mitsubishi identifies FR-D740 as the three-phase 400 V FR-D700 model family.

The official FR-D700 catalog lists the CHT configuration through 7.5 kW.

The selected catalog row includes the 3.7 kW position for FR-D740-?K-CHT.

Official model page:

<https://us.mitsubishielectric.com/fa/en/products/drv/inv/pmerit/fr-d/model-configuration/>

Standard specifications

FREQROL D700 SERIES

Rating

● Three-phase 200V power supply

Model FR-D720-□K		0.1	0.2	0.4	0.75	1.5	2.2	3.7	5.5	7.5	11	15
Model FR-D720-□-NA		008	014	025	042	070	100	165	238	318	—	—
Applicable motor capacity (kW)*1		0.1	0.2	0.4	0.75	1.5	2.2	3.7	5.5	7.5	11	15
Output	Rated capacity (kVA)*2	0.3	0.6	1.0	1.7	2.8	4.0	6.6	9.5	12.7	17.9	23.1
	Rated current (A)	0.8	1.4	2.5	4.2	7.0	10.0	16.5	23.8	31.8	45.0	58.0
	Overload current rating*3	150% 60s, 200% 0.5s (inverse-time characteristics)										
	Rated voltage*4	Three-phase 200 to 240V										
	Regenerative braking torque*5	150%		100%		50%		20%				
Power supply	Rated input AC voltage/frequency	Three-phase 200 to 240V 50Hz/60Hz										
	Permissible AC voltage fluctuation	170 to 264V 50Hz/60Hz										
	Permissible frequency fluctuation	±5%										
	Power supply capacity (kVA)*6	0.4	0.7	1.2	2.1	4.0	5.5	9.0	12.0	17.0	20.0	27.0
Protective structure (JEM1030)		Enclosed type (IP20)										
Cooling system		Self-cooling					Forced air cooling					
Approximate mass (kg)		0.5	0.5	0.8	1.0	1.4	1.4	1.8	3.6	3.6	6.5	6.5

● Three-phase 400V power supply

Model FR-D740-□K		0.4	0.75	1.5	2.2	3.7	5.5	7.5	11	15
Model FR-D740-□-NA		012	022	036	050	080	120	160	—	—
Model FR-D740-□(SC)-EC		012	022	036	050	080	120	160	—	—
Model FR-D740-□K-CHT		0.4	0.75	1.5	2.2	3.7	5.5	7.5	—	—
Applicable motor capacity (kW)*1		0.4	0.75	1.5	2.2	3.7	5.5	7.5	11	15
Output	Rated capacity (kVA)*2	0.9	1.7	2.7	3.8	6.1	9.1	12.2	17.5	22.5
	Rated current (A)	1.2	2.2	3.6	5.0	8.0	12.0	16.0	23.0	29.5
	Overload current rating*3	150% 60s, 200% 0.5s (inverse-time characteristics)								
	Rated voltage*4	Three-phase 380 to 480V								
	Regenerative braking torque*5	100%		50%		20%				
Power supply	Rated input AC voltage/frequency	Three-phase 380 to 480V 50Hz/60Hz								
	Permissible AC voltage fluctuation	325 to 528V 50Hz/60Hz								
	Permissible frequency fluctuation	±5%								
	Power supply capacity (kVA)*6	1.5	2.5	4.5	5.5	9.5	12.0	17.0	20.0	28.0
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	6.0	6.0

*1 The applicable motor capacity indicated is the maximum capacity applicable for use of the Mitsubishi 4-pole standard motor.

*2 The rated output capacity indicated assumes that the output voltage is 230V for three-phase 200V class and 440V for three-phase 400V class.

*3 The % value of the overload current rating indicated is the ratio of the overload current to the inverter's rated output current. For repeated duty, allow time for the inverter and motor to return to or below the temperatures under 100% load.

*4 The maximum output voltage does not exceed the power supply voltage. The maximum output voltage can be changed within the setting range. However, the pulse voltage value of the inverter output side voltage remains unchanged at about $\sqrt{2}$ that of the power supply.

*5 The braking torque indicated is a short-duration average torque (which varies with motor loss) when the motor alone is decelerated from 60Hz in the shortest time and is not a continuous regenerative torque. When the motor is decelerated from the frequency higher than the base frequency, the average deceleration torque will reduce. Since the inverter does not contain a brake resistor, use the optional brake resistor when regenerative energy is large. (The option brake resistor cannot be used for 0.1K and 0.2K.) A brake unit (FR-BU2) may also be used.

*6 The power supply capacity varies with the value of the power supply side inverter impedance (including those of the input reactor and cables).

FR-D700 Series Specification Difference List

FREQROL D700 SERIES

Item	Japanese Specification	NA Specification	EC Specification	CHT Specification
Applicable Capacity Type	FR-D720-0.1K to 15K FR-D740-0.4K to 15K FR-D720S-0.1K to 2.2K FR-D710W-0.1K to 0.75K Type : Rated capacity (kW)	FR-D720-008 to 318-NA FR-D740-012 to 160-NA FR-D720S-008 to 100-NA FR-D710W-008 to 042-NA Type : Rated current value	FR-D740-012 to 160-EC FR-D720S-008 to 100-EC Type : Rated current value	FR-D740-0.4K to 7.5K-CHT FR-D720S-0.1K to 2.2K-CHT Type : Rated capacity (kW)
Main Circuit Terminal Name	R, S, T		L1, L2, L3	
AC Power Input				
Three-phase Input	R, S		L1, N	
Single-phase Input				
Brake Unit Connection	P, N		+, -	
Control Terminal Logic Initial Setting	Sink logic	Sink logic	Source logic	Sink logic
Control Terminal Contact Input Common Terminal Initial Setting	SD	SD	PC	SD
Monitor Output Terminal For Indicator	FM (Digital output)	AM (Analog output)	AM (Analog output)	AM (Analog output)
Parameter				
<i>Pr.3, Pr.4, Pr.20, Pr.55, Pr.66, Pr.84, Pr.125, Pr.126, Pr.903, Pr.905, Pr.923</i>	60Hz	60Hz	50Hz	50Hz
Initial Value				
<i>Pr.19 Initial Value</i>	9999	9999	8888	9999
<i>Pr.122 Initial Value</i>	0	9999	9999	0
<i>Pr.145 Initial Value</i>	0	1	1	1
<i>Pr.160 Initial Value</i>	9999	0	0	9999
<i>Pr.249 Initial Value</i>	0	0	1	1
Indicator Output Terminal Function	<i>Pr.54 FM terminal function selection, Pr.900 FM terminal calibration</i>	<i>Pr.158 AM terminal function selection, Pr.901 AM terminal calibration</i>	<i>Pr.158 AM terminal function selection, Pr.901 AM terminal calibration</i>	<i>Pr.158 AM terminal function selection, Pr.901 AM terminal calibration</i>
Traverse Function	Without	Without	With	With
<i>Pr.592 to Pr.597</i>				

Features

Standard Specifications

Outline Dimension Drawings

Terminal Connection Diagram Terminal Specification Explanation

Operation panel Parameter unit

Parameter List

Protective Functions

Options

Instructions

FR-D700 Series Specification Difference List

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PRODUCT: FR-D740-3.7K-CHT / FR-D700 Series Compact Inverter

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