

FR-F700 Series

Instruction Manual Supplement

UL and cUL Listed, Single Phase input / Three Phase output acceptable current ratings, as shown in Tables 1 and 2.

Table 1

F700 Ratings 200V Class				
Input Voltage: 1 Phase 200-240V at 60Hz				
Output Voltage: 3 Phase 200-240V at 60Hz Voltage Tolerance: 170-264V at 60Hz				
Available Braking Torque: 15% Torque Continuous				
Model Number	SLD (40°C)		LD (50°C)	
	110% OL / lmin		120% OL / lmin	
	120% OL / 3 sec		150% OL / 3 sec	
	Hp (*1)	FLA	Hp (*1)	FLA
FR-F720-00046-NA	1/2	2.76	1/2	2.52
FR-F720-00077-NA	1	4.62	1	4.2
FR-F720-00105-NA	1.5	6.30	1	5.76
FR-F720-00167-NA	2	10.00	2	9.12
FR-F720-00250-NA	3	15	3	13.8
FR-F720-00340-NA	5	20.4	5	18.6
FR-F720-00490-NA	7.5	29.4	7.5	27.0
FR-F720-00630-NA	10	37.8	10	34.8
FR-F720-00770-NA	15	46.3	15	42.0
FR-F720-00930-NA	20	55.8	15	51.0
FR-F720-01250-NA	25	75.0	25	68.4
FR-F720-01540-NA	30	92.4	30	84.0
FR-F720-01870-NA	40	112.2	40	102
FR-F720-02330-NA	50	139.8	50	127.2
FR-F720-03160-NA	60	189.6	60	172.8
FR-F720-03800-NA	75	228.0	75	207.6

Table 2

F700 Ratings 400V Class				
Input Voltage: 1 Phase 380-480V at 60Hz				
Output Voltage: 3 Phase 380-480V at 60Hz Voltage Tolerance: 323-528V at 60Hz				
Available Braking Torque: 15% Torque Continuous				
Model Number	SLD (40°C)		LD (50°C)	
	110% OL / lmin		120% OL / lmin	
	120% OL / 3 sec		150% OL / 3 sec	
	Hp (*1)	FLA	Hp (*1)	FLA
FR-F740-00023-NA	1/2	1.38	1/2	1.26
FR-F740-00038-NA	1	2.28	1	2.1
FR-F740-00052-NA	1.5	3.12	1	2.88
FR-F740-00083-NA	2	4.15	2	4.56
FR-F740-00126-NA	3	7.56	3	6.9
FR-F740-00170-NA	5	10.2	5	9.6
FR-F740-00250-NA	7.5	15.0	7.5	13.8
FR-F740-00310-NA	10	18.6	10	17.4
FR-F740-00380-NA	15	22.8	15	21
FR-F740-00470-NA	20	29.2	15	25.8
FR-F740-00620-NA	25	37.2	25	34.2
FR-F740-00770-NA	30	46.2	30	42
FR-F740-00930-NA	40	55.8	40	51
FR-F740-01160-NA	50	69.6	50	63.6
FR-F740-01800-NA	75	108	60	86.4
FR-F740-02160-NA	100	129.6	75	108
FR-F740-02600-NA	125	156	100	129.6
FR-F740-03250-NA	150	195	125	156
FR-F740-03610-NA	150	216.6	150	195
FR-F740-04320-NA	200	259.2	150	216.6
FR-F740-04810-NA	200	288.6	200	259.2

Notes:

*1 - Motor ratings shown are intended as guidelines only - based on 4 pole standard induction motors.

• INVERTER NOMENCLATURE

FR-F740-00126-NA

Base Model	Voltage Class	Output Current Rating (Divisible by factor of 10)	Model Version
FR-F720	3 Phase or 1 Phase Input 3 Phase Output, 200V Class	Indicates the rated output current with 3 phase input. Derate output by 40% for 1 phase input.	NA = North American
FR-F740	3 Phase or 1 Phase Input 3 Phase Output, 400V Class		

Rating plate

Rating plate

MITSUBISHI INVERTER

MODEL: **FR-F740-00126-NA**

Inverter type →

Input rating → INPUT : XXXXX

Output rating → OUTPUT : XXXXX

Serial number → SERIAL :

LD (50°C) XXA

SLD (40°C) XXA

PASSED

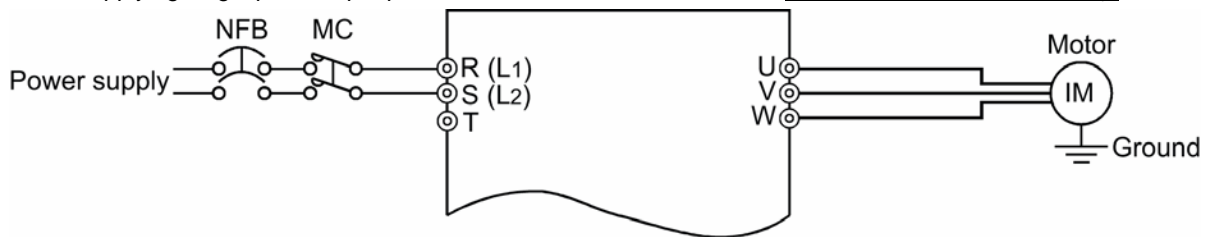
SEE MANUAL FOR 1 PHASE INPUT RATINGS

	Overload Current Rating	Ambient Temperature
LD	120%, 60s 150% 3s	50°C (122°F)
SLD	110%, 60s 120% 3s	40°C (104°F)

• WIRING CONNECTIONS FOR SINGLE PHASE INPUT POWER

Single phase input power / Three phase output power

When supplying single phase input power, connections must be made to R(L1) and S(L2) terminals only.



• PARAMETER SETTINGS FOR SINGLE PHASE INPUT POWER

Parameter Number	Name	Initial Value	Description	Notes
9	Electronic thermal O/L relay	Rated 3 phase inverter output current	Set to the rated motor current. (Not to exceed the output current values shown in Tables 1 and 2.	Helps protect the motor from overheat
872	Input phase failure protection selection	0	0 = Without input phase failure protection. 1 = With input phase failure protection.	For single phase input, Pr 872=0 must be set.