

FR-A700 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

A700 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								
Model Number	ND (50°C)		HD (50°C)		LD (50°C)		SLD (40°C)	
	150% OL/1 min		200% OL/1 min		120% OL/1 min		110% OL/1 min	
	200% OL/3 sec		250% OL/3 sec		150% OL/3 sec		120% OL/3 sec	
	Hp (*1)	FLA	Hp (*1)	FLA	Hp (*1)	FLA	Hp (*1)	FLA
FR-A720-00030-NA	1/4	1.8	1/8	0.9	1/2	2.52	1/2	2.76
FR-A720-00050-NA	1/2	3.0	1/4	1.8	3/4	3.9	3/4	4.26
FR-A720-00080-NA	1	4.8	1/2	3.0	1	5.76	1.5	6.30
FR-A720-00110-NA	1.5	6.6	1	4.8	2	9.12	2	10.00
FR-A720-00175-NA	3	10.5	1.5	6.6	3	14.4	3	15
FR-A720-00240-NA	3	14.4	3	10.5	5	18.6	5	20.4
FR-A720-00330-NA	5	19.8	3	14.4	7.5	27.0	7.5	29.4
FR-A720-00460-NA	7.5	27.6	5	19.8	10	34.8	10	37.8
FR-A720-00610-NA	10	36.6	7.5	27.6	15	42.0	15	46.3
FR-A720-00760-NA	15	45.6	10	36.6	15	51.0	20	55.8
FR-A720-00900-NA	20	54.0	15	45.6	25	68.4	25	75.0
FR-A720-01150-NA	25	69.0	20	54.0	30	84.0	30	92.4
FR-A720-01450-NA	30	87.0	25	69.0	40	102	40	112.2
FR-A720-01750-NA	40	105	30	87.0	50	127.2	50	139.8
FR-A720-02150-NA	50	129	40	105	60	172.8	60	189.6
FR-A720-02880-NA	60	172.8	50	129	75	207.6	75	228.0

Table 2

A700 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								
Model Number	ND (50°C)		HD (50°C)		LD (50°C)		SLD (40°C)	
	150% OL/1 min		200% OL/1 min		120% OL/1 min		110% OL/1 min	
	200% OL/3 sec		250% OL/3 sec		150% OL/3 sec		120% OL/3 sec	
	Hp (*1)	FLA	Hp (*1)	FLA	Hp (*1)	FLA	Hp (*1)	FLA
FR-A740-00015-NA	1/4	0.9	1/8	0.48	1/2	1.26	1/2	1.38
FR-A740-00025-NA	1/2	1.5	1/4	0.9	1	2.1	1	2.28
FR-A740-00040-NA	1	2.4	1/2	1.5	1	2.88	1.5	3.12
FR-A740-00060-NA	2	3.6	1	2.4	2	4.56	2	4.15
FR-A740-00090-NA	3	5.4	2	3.6	3	6.9	3	7.56
FR-A740-00120-NA	3	7.2	3	5.4	5	9.6	5	10.2
FR-A740-00170-NA	5	10.2	3	7.2	7.5	13.8	7.5	15.0
FR-A740-00230-NA	7.5	13.8	5	10.2	10	17.4	10	18.6
FR-A740-00310-NA	10	18.6	7.5	13.8	15	21	15	22.8
FR-A740-00380-NA	15	22.8	10	18.6	15	25.8	20	29.2
FR-A740-00440-NA	20	26.4	15	22.8	25	34.2	25	37.2
FR-A740-00570-NA	25	34.2	20	26.4	30	42	30	46.2
FR-A740-00710-NA	30	42.6	25	34.2	40	51	40	55.8
FR-A740-00860-NA	40	51.6	30	42.6	50	63.6	50	69.6
FR-A740-01100-NA	50	66.0	40	51.6	60	86.4	75	108
FR-A740-01440-NA	60	86.4	50	66.0	75	108	100	129.6
FR-A740-01800-NA	75	108	60	86.4	100	129.6	125	156
FR-A740-02160-NA	100	129.6	75	108	125	156	150	195
FR-A740-02600-NA	125	156	100	129.6	150	195	150	216.6
FR-A740-03250-NA	150	195	125	156	150	216.6	200	259.2
FR-A740-03610-NA	150	216.6	150	195	200	259.2	200	288.6

Notes:

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

• INVERTER NOMENCLATURE

FR-A720-00175-NA

Base Model	Voltage Class	Output Current Rating (Divisible by factor of 10)	Model Version
FR-A720	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-A740	3 Phase or 1 Phase Input 3 Phase Output, 400V Class		

Rating plate

Rating plate

Inverter type →

Input rating →

Output rating →

Serial number →

MITSUBISHI INVERTER

MODEL: **FR-A720-00175-NA**

INPUT : XXXXX

OUTPUT : XXXXX

SERIAL :

PASSED

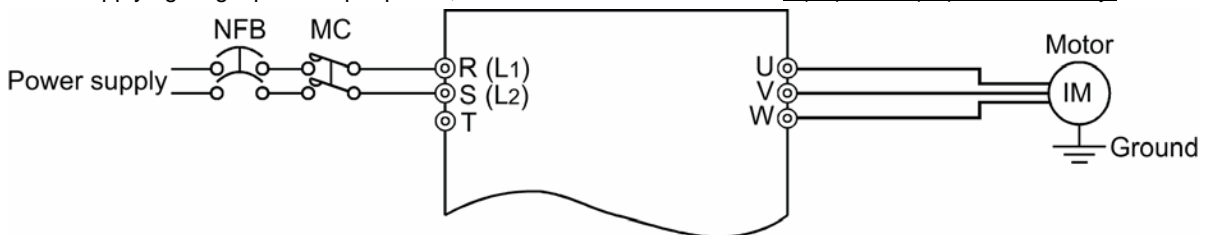
	Overload Current Rating	Ambient Temperature
LD	120%, 60s 150% 3s	50°C (122°F)
SLD	110%, 60s 120% 3s	40°C (104°F)
ND	150%, 60s 200% 3s	50°C (122°F)
HD	200%, 60s 250% 3s	50°C (122°F)

SEE MANUAL FOR 1 PHASE INPUT RATINGS

• 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.