

Conformity with UL standards and CSA standards (cUL-listed for Canada) (continued)

⚠ CAUTION

When applying single-phase to a three-phase drive, the applied motor must not exceed the specifications in the table below. Specifications other than those shown below are the same as those in the "Three-phase 230 V series" and "Three-phase 460 V series."

For precautions for single-phase use, refer to Section 1.3.4.

Standard Model 1 (Basic Type)

(1) Single-phase 230 V series

LD (Low Duty)-mode inverters for light load

Item		Specifications																	
Type (FRN_____G1S-2U)		F50	001	002	003	005	007	010	015	020	025	030	040	050	060	075	100	125	150
Nominal applied motor (HP) (Output rating) *1		0.25	0.5	1	1.5	3	3	5	7.5	10	10	15	20	25	30	30	40	50	
Output ratings	Rated capacity (kVA) *2	0.8	1.3	1.9	2.6	4.4	6.8	9.2	12	13	16	18	23	30	37	38	41	52	59
	Rated current (A)	1.9	3.1	4.7	6.3	11	17	23	30	32	39	44	58	74	93	95	102	131	149
Input ratings	Voltage, frequency	Single-phase, 200 to 240 V, 50/60 Hz												Single-phase, 200 to 220 V, 50 Hz Single-phase, 200 to 230 V, 60 Hz					
	Allowable voltage/frequency	Voltage: +10 to -10% , Frequency: +5 to -5%																	
	Required capacity (with DCR) (kVA) *3	0.5	0.9	1.6	2.2	4.0	5.8	7.9	11	13	16	18	25	32	40	41	47	59	67

HD (High Duty)-mode inverters for heavy load

Item		Specifications																	
Type (FRN___G1S-2U)		F50	001	002	003	005	007	010	015	020	025	030	040	050	060	075	100	125	150
Nominal applied motor (HP) (Output rating) *1		0.25	0.5	1	1.5	3	3	3	5	7.5	10	10	15	20	25	30	30	40	40
Output ratings	Rated capacity (kVA) *2	0.8	1.3	1.9	2.6	4.4	6.8	6.8	9.2	10	13	15	18	24	30	37	38	44	52
	Rated current (A)	1.9	3.1	4.7	6.3	11	17	17	23	26	33	38	45	61	75	93	95	109	131
Input ratings	Voltage, frequency	Single-phase, 200 to 240 V, 50/60 Hz												Single-phase, 200 to 220 V, 50 Hz Single-phase, 200 to 230 V, 60 Hz					
	Allowable voltage/frequency	Voltage: +10 to -10% , Frequency: +5 to -5%																	
	Required capacity (with DCR) (kVA) *3	0.5	0.9	1.6	2.2	4.0	5.8	5.8	7.7	9.7	13	16	18	26	33	40	42	50	58

*1 US 4P-standard induction motor

*2 Rated capacity is calculated assuming the rated output voltage as 230 V for 230 V series and 460 V for 460 V series.

*3 Required when a DC reactor (DCR) is used.

Conformity with UL standards and CSA standards (cUL-listed for Canada) (continued)

⚠ CAUTION

(2) Single-phase 460 V series

LD (Low Duty)-mode inverters for light load

(0.25 to 40 HP)

Item		Specifications																
Type (FRN___G1S-4U)	F50	001	002	003	005	007	010	015	020	025	030	040	050	060	075	100		
Nominal applied motor (HP) (Output rating) *1	0.25	0.5	1	1.5	3	3	5	7.5	10	10	15	20	25	30	30	40		
Output ratings	Rated capacity (kVA) *2	0.8	1.2	2.0	2.4	4.5	6.4	8.8	12	14	16	18	23	30	37	43	47	
	Rated current (A)	0.9	1.5	2.4	3.0	5.6	8.0	11	15	17	20	23	29	37	46	54	59	
Input ratings	Voltage, frequency	Single-phase, 380 to 480 V, 50/60 Hz																
	Allowable voltage/frequency	Voltage: +10 to -10% , Frequency: +5 to -5%																
	Required capacity (with DCR) (kVA) *3	0.5	0.9	1.7	2.2	4.0	5.4	7.3	11	13	16	18	25	32	39	46	51	

(50 to 400 HP)

Item		Specifications																
Type (FRN___G1S-4U)	125	150	200	250	300	350	450	500	600	700	800	900	1000					
Nominal applied motor (HP) (Output rating) *1	50	50	60	75	100	100	125	150	200	200	250	300	400					
Output ratings	Rated capacity (kVA) *2	55	65	78	96	116	128	160	198	229	259	305	368	461				
	Rated current (A)	70	82	99	121	146	161	202	250	288	326	384	462	579				
Input ratings	Voltage, frequency	Single-phase, 380 to 440 V, 50 Hz Single-phase, 380 to 480 V, 60 Hz																
	Allowable voltage/frequency	Voltage: +10 to -10% , Frequency: +5 to -5%																
	Required capacity (with DCR) (kVA) *3	61	73	87	105	130	143	181	227	257	291	330	404	488				

HD (High Duty)-mode inverters for heavy load

(0.25 to 30 HP)

Item		Specifications																
Type (FRN___G1S-4U)	F50	001	002	003	005	007	010	015	020	025	030	040	050	060	075	100		
Nominal applied motor (HP) (Output rating) *1	0.25	0.5	1	1.5	3	3	3	5	7.5	10	10	15	20	25	30	30		
Output ratings	Rated capacity (kVA) *2	0.8	1.2	2.0	2.4	4.5	6.4	6.4	9.6	10	14	16	18	24	30	36	44	
	Rated current (A)	0.9	1.5	2.4	3.0	5.6	8.0	8.0	12	13	17	20	23	30	38	45	55	
Input ratings	Voltage, frequency	Single-phase, 380 to 480 V, 50/60 Hz																
	Allowable voltage/frequency	Voltage: +10 to -10% , Frequency: +5 to -5%																
	Required capacity (with DCR) (kVA) *3	0.5	0.9	1.7	2.2	4.0	5.4	5.4	7.8	9.9	13	16	19	26	32	39	49	

(40 to 300 HP)

Item		Specifications																
Type (FRN___G1S-4U)	125	150	200	250	300	350	450	500	600	700	800	900	1000					
Nominal applied motor (HP) (Output rating) *1	40	50	60	60	75	100	100	125	150	150	200	250	300					
Output ratings	Rated capacity (kVA) *2	48	57	68	82	97	118	133	162	184	206	236	305	373				
	Rated current (A)	61	72	86	103	122	149	167	204	231	259	297	384	469				
Input ratings	Voltage, frequency	Single-phase, 380 to 440 V, 50 Hz Single-phase, 380 to 480 V, 60 Hz																
	Allowable voltage/frequency	Voltage: +10 to -10% , Frequency: +5 to -5%																
	Required capacity (with DCR) (kVA) *3	53	63	76	89	108	132	147	182	206	236	265	325	410				

*1 US 4P-standard induction motor

*2 Rated capacity is calculated assuming the rated output voltage as 230 V for 230 V series and 460 V for 460 V series.

*3 Required when a DC reactor (DCR) is used.