

SJ700B Series Standard Specifications

● 3-phase 400V class

Model SJ700B-		Asia Version	055HF	075HFF	110HFF	150HFF	185HFF	220HFF	300HFF	370HFF	450HFF	550HFF	750HFF	900HFF	1100HFF	1320HFF	1600HFF
		US Version	-	075HFUF	110HFUF	150HFUF	185HFUF	220HFUF	300HFUF	370HFUF	450HFUF	550HFUF	750HFUF	900HFUF	1100HFUF	1320HFUF	1600HFUF
Enclosure (*1)		IP20											IP00				
Applicable motor (4-pole, kW(HP)) (*2)		5.5(7.5)	7.5(10)	11(15)	15(20)	18.5(25)	22(30)	30(40)	37(50)	45(60)	55(75)	75(100)	90(125)	110(150)	132(150)	160(220)	
Output Ratings	Rated capacity (kVA)	400V	9.7	11	15.2	20.0	25.6	29.7	39.4	48.4	58.8	72.7	93.5	110.8	135.1	159.3	200.9
		480V	11.6	13.3	18.2	24.1	30.7	35.7	47.3	58.1	70.6	87.2	112.2	133	162.1	191.2	241.1
	Rated output current (A)	14	16	22	29	37	43	57	70	85	105	135	160	195	230	290	
	Overload capacity(output current)	120%,60sec															
Rated output voltage (*3)		3-phase (3-wire) 380 to 480V (corresponding to input voltage)															
Input Rating	Rated input voltage (V)	3-phase 380 to 480V +10%, -15%, 50/60Hz±5%															
	Rated input current (A)	17	18	24	32	41	47	63	77	94	116	149	176	199	253	300	
Braking	Dynamic braking (Short-time) (*4)	Built-in BRD circuit (optional resistor)									External dynamic braking unit (option)						
	Minimum value of resistor (Ω)	70	70	35	35	24	24	20	-								
Vibration (*5)		5.9m/s ² (0.6G), 10-55Hz									2.9m/s ² (0.3G), 10-55Hz						
EMC filter		Built-in (EN61800-3 category C3)															
Zero-phase Reactor		Built-in															
Weight (lbs.)		3.5(7.7)	6(13.2)	6(13.2)	6(13.2)	14(30.8)	14(30.8)	14(30.8)	22(48.4)	30(66)	30(66)	30(66)	55(121)	55(121)	70(154)	70(154)	

● 3-phase 200V class

Model SJ700B-		US Version	110LFUF	150LFUF	185LFUF	220LFUF	300LFUF	370LFUF	450LFUF	550LFUF	750LFUF
Enclosure (*1)		IP20									
Applicable motor (4-pole, kW(HP)) (*2)		11(15)	15(20)	18.5(25)	22(30)	30(40)	37(50)	45(60)	55(75)	75(100)	
Output Ratings	Rated capacity (kVA)	200V	15.2	20.0	25.2	29.4	39.1	48.4	58.5	72.7	93.5
		240V	18.2	24.1	30.3	35.3	46.9	58.1	70.2	87.2	112.2
	Rated output current (A)	44	58	73	85	113	140	169	210	270	
	Overload capacity(output current)	120%,60sec									
Rated output voltage (*3)		3-phase (3-wire) 200 to 240V (corresponding to input voltage)									
Input Rating	Rated input voltage (V)	3-phase 200 to 240V +10%, -15%, 50/60Hz±5%									
	Rated input current (A)	48	64	80	94	120	150	186	240	280	
Braking	Dynamic braking (Short-time) (*4)	Built-in BRD circuit (optional resistor)					External dynamic braking unit (option)				
	Minimum value of resistor (Ω)	10	10	7.5	7.5	7.5	-				
Vibration (*5)		5.9m/s ² (0.6G), 10-55Hz					2.9m/s ² (0.3G), 10-55Hz				
EMC filter		Built-in (EN61800-3 category C3)									
Zero-phase Reactor		Built-in									
Weight (lbs.)		6(13.2)	6(13.2)	14(30.8)	14(30.8)	14(30.8)	22(48.4)	30(66)	30(66)	43(94.6)	

*1: The protection method conforms to JIS C 0920(IEC60529)

*2: The applicable motor refers to Hitachi standard 3-phase motor (4-pole). To use other motors, be sure to prevent the rated motor current (50Hz) from exceeding the rated output current of the inverter.

*3: The output voltage decreases as the main power supply voltage decreases except for the use of AVR function.

*4: Braking resistor is not integrated in the inverter. Please install optional braking resistor or dynamic braking unit when large braking torque is required.

*5: Conforms to the test method specified in JIS C 60068-2-6 : 2010 (IEC 60068-2-6 : 2007).

*6: To operate the motor beyond 50/60Hz, please consult with the motor manufacturer about the maximum allowable rotation speed.

*7: Storage temperature refers to the temperature in transportation.

*8: The frequency command is the maximum frequency at 9.8V for input voltage 0 to 10VDC, or at 19.8mA for input current 4 to 20mA.

If this characteristic is not satisfactory for your application, contact your Hitachi representative.