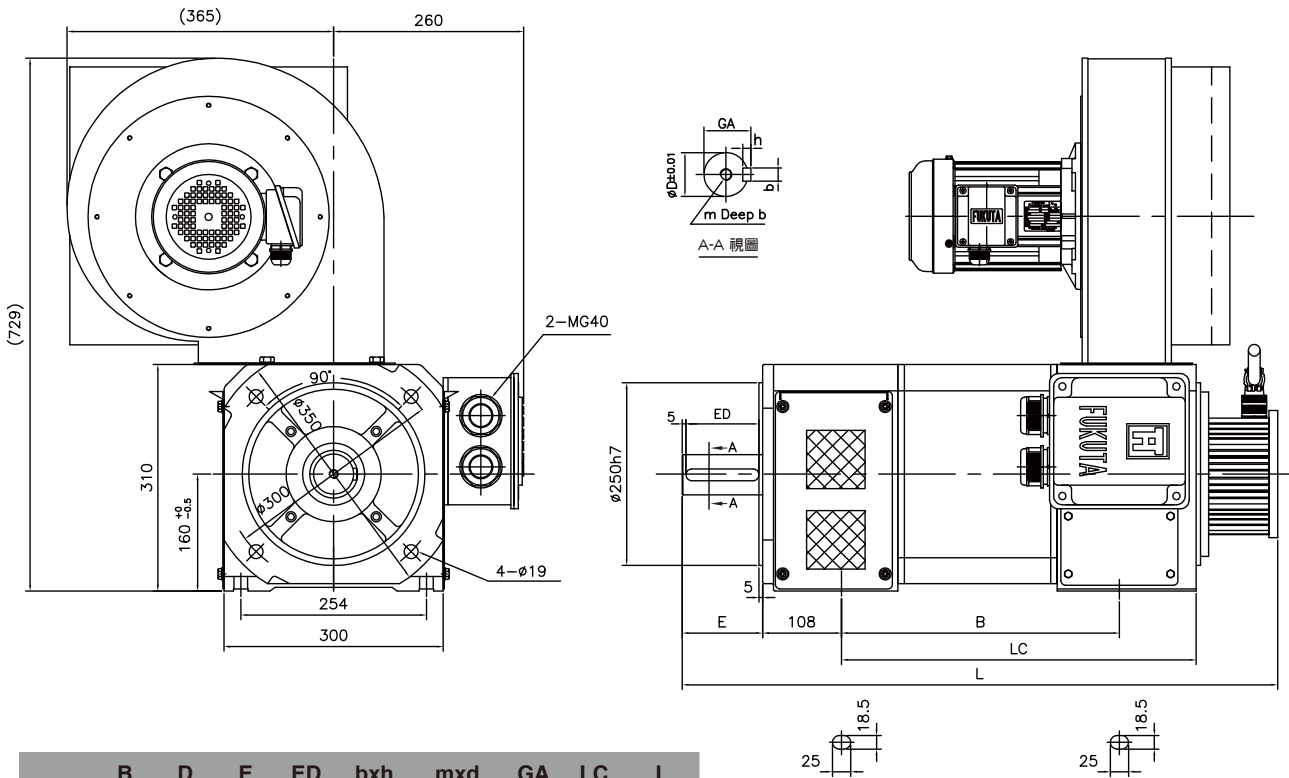


MODEL

SA-160

FUKUTA SERVO MOTOR



	B	D	E	ED	b _x h	m _x d	GA	LC	L
160S	380	55	110	100	16x10	M12x35	59	485	814.5
160M	430	60	140	130	18x11	M16x40	64	535	894.5
160L	480	60	140	130	18x11	M16x40	64	585	944.5
160X	560	60	140	130	18x11	M16x40	64	665	1024.5

產品規格 Standard

輸出 Output(kw)	30	37	45	55
框號 Frame No.	160S	160M	160L	160X
效率 Efficiency(%)	92.8%	93.2%	93.4%	93.9%
功因 Power Factor	0.843	0.85	0.878	0.845
R1(Ω) @25°C	0.07	0.053	0.043	0.029
極數 Poles	4	4	4	4
轉動慣量 Rotor Inertial(kg·m ²)	0.1675	0.2054	0.2427	0.3023
激磁電流 Magnetizing Current(A)	50.2	53.4	59.5	89.3
額定轉速 Rated Speed (rpm)	1500	1500	1500	1500
最高轉速 Max. Speed (rpm)	4500	4500	4500	4500
重量 Weight(kg)	240.0	270.0	300.0	350.0
編碼器 Encoder	1024PPR RS422(Line-drive)/Push-Pull			
風扇 Elec.Fan	3ø 220/380V 50/60Hz 3.5/2.1A			
軸承 Bearings	LS:6313C3		OS:6312C3	

※編碼器之選用依需求為主

一般條件 General Data

安裝方式 Mounting	IM 2001(B3/B5)
保護方式 Protection	IP23
轉子平衡 Rotor Balancing	R級 (ISO2373)R Degree
絕緣等級 Insulation	H級 Class H
冷卻系統 Cooling Sys.	強制通風 Forced Air Cooled
熱保護 Thermal Protection	熱保護器 (常閉) Thermal Protector (NC)
噪音 Noise	80dBA
周溫 Ambient Temp.	-15°C~40°C
高度 Altitude	海拔1000米 1000m ASL

FUKUTA® 伺服馬達規格之選用

框號 Fr. No.	額定輸出 Rated Output	額定轉速 Rated Speed	最大轉矩 Max. Torque	額定轉矩 Rated Torque	額定電流 Rated Current				額定頻率 Rated Frequency
	kw	RPM	kg-m	kg-m	190V	220V	330V	380V	Hz
SA-160S	9	500	42.07	17.53	38.3	33.2	22.1	19.2	17.6
	18.5	1000	43.32	18.05	72.4	63.7	41.8	36.8	34.3
	30	1500	46.82	19.51	116.9	103.9	67.5	59.5	51.0
	37	2000	43.42	18.09	138.1	122.0	79.8	70.4	67.7
SA-160M	11	500	51.46	21.44	45.5	38.2	26.3	22.0	17.6
	22	1000	51.46	21.44	85.7	72.6	49.5	41.9	34.3
	37	1500	57.77	24.07	139.4	118.9	80.5	68.6	51.0
	45	2000	52.70	21.96	164.7	141.4	95.1	81.7	67.7
SA-160L	15	500	70.27	29.28	64.7	55.6	37.4	32.1	17.6
	30	1000	70.27	29.28	113.2	96.7	65.2	55.9	34.4
	45	1500	70.22	29.28	167.0	144.4	96.4	83.4	51.1
	55	2000	64.54	26.89	197.9	173.7	114.2	100.3	67.7
SA-160X	18.5	500	86.66	36.11	78.5	66.3	45.3	38.3	17.6
	37	1000	86.66	36.11	144.9	129.1	83.7	74.5	34.3
	55	1500	85.87	35.78	211.0	188.3	121.8	108.7	50.9
	65	2000	76.05	31.69	236.8	203.0	136.7	117.2	67.6

MODEL
SA-180
FUKUTA SERVO MOTOR



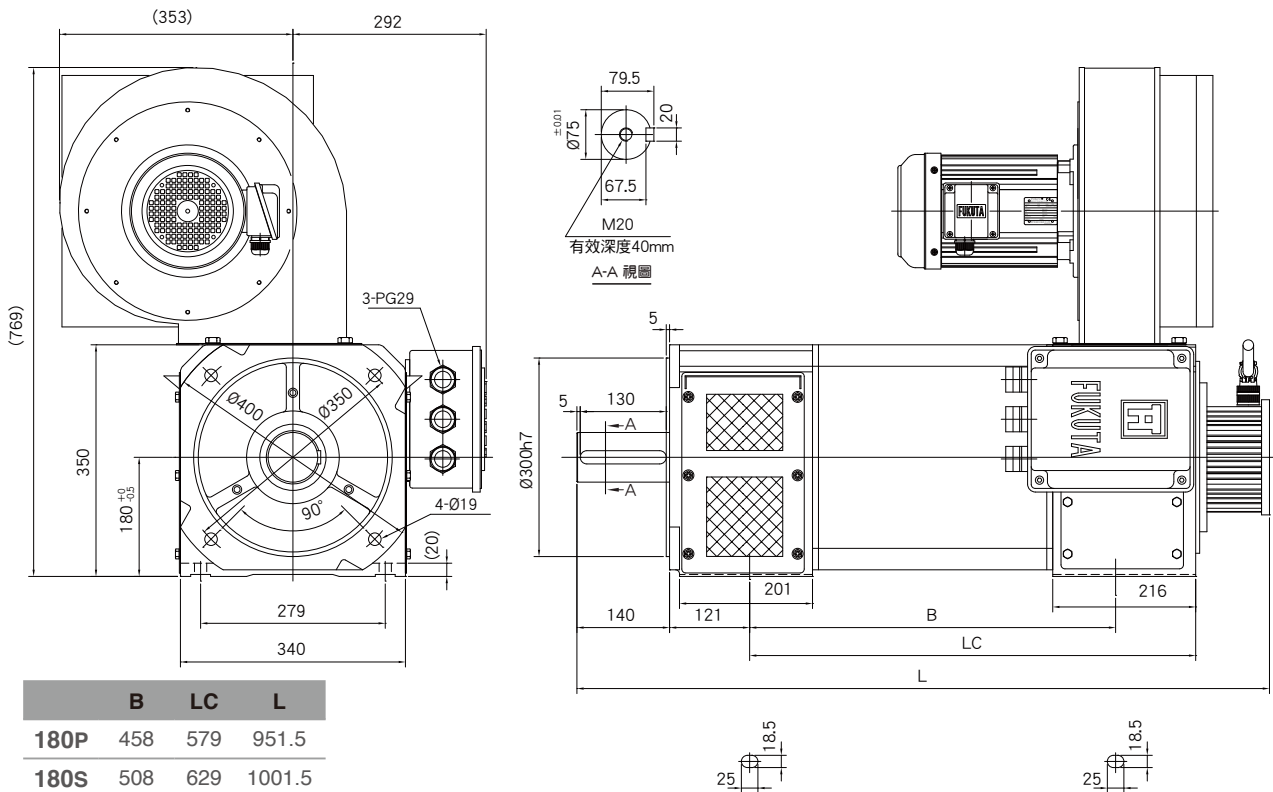
產品規格 Standard

輸 出 Output(kw)	75	90	100	132	150
框 號 Frame No.	180P	180S	180M	180L	180X
效 率 Efficiency(%)	92.3%	92.3%	92.6%	92.8%	92.8%
功 因 Power Factor	0.84	0.838	0.817	0.824	0.826
R1(Ω) @25°C	0.076	0.063	0.049	0.035	0.03
極 數 Poles	6	6	6	6	6
轉動慣量 Rotor Inertial(kg·m²)	0.5463	0.6466	0.7369	0.9075	1.0479
激磁電流 Magnetizing Current(A)	55.9	65.5	84.4	107	117.9
額定轉速 Rated Speed (rpm)	1500	1500	1500	1500	1500
最高轉速 Max. Speed (rpm)	3500	3500	3500	3500	3500
重 量 Weight(kg)	345.0	390.0	430.0	505.0	560.0
編 碼 器 Encoder	1024PPR RS422(Line-drive)/Push-Pull				
風 扇 Elec.Fan	3ø 220/380V 50/60Hz 5.6/3.2A				
軸 承 Bearings	LS:6316C3		OS:6315C3		

※編碼器之選用依需求為主

一般條件 General Data

安裝方式 Mounting	IM 2001 (B3/B5)
保護方式 Protection	IP23
轉子平衡 Rotor Balancing	R級 (ISO2373)R Degree
絕緣等級 Insulation	H級 Class H
冷卻系統 Cooling Sys.	強制通風 Forced Air Cooled
熱保護 Thermal Protection	熱保護器 (常閉) Thermal Protector (NC)
噪音 Noise	80dBA
周溫 Ambient Temp.	-15°C~40°C
高度 Altitude	海拔1000米 1000m ASL



	B	LC	L
180P	458	579	951.5
180S	508	629	1001.5
180M	553	674	1046.5
180L	638	759	1131.5
180X	708	829	1201.5

FUKUTA® 伺服馬達規格之選用

框號 Fr. No.	額定輸出 Rated Output	額定轉速 Rated Speed	最大轉矩 Max. Torque	額定轉矩 Rated Torque	額定電流 Rated Current		額定頻率 Rated Frequency
	kw	RPM	kg-m	kg-m	330V	380V	Hz
SA-180P	25	500	90.42	48.88	64.5	56.0	26.0
	50	1000	90.35	48.84	113.2	98.3	51.1
	75	1500	90.17	48.74	169.6	147.3	76.0
	90	2000	81.16	43.9	197.6	171.6	101.2
SA-180S	30	500	108.33	58.56	76.2	66.2	26.1
	60	1000	108.15	58.46	140.0	121.6	51.2
	90	1500	108.24	58.51	203.8	177.0	76.1
SA-180M	113	2000	101.94	55.1	251.4	218.3	101.1
	37	500	133.66	72.25	96.4	83.7	26.1
	70	1000	126.36	68.3	168.2	146.1	51.1
	100	1500	120.25	65	231.6	201.1	75.7
SA-180L	130	2000	117.23	63.37	291.6	253.2	100.0
	45	500	162.63	87.91	114.3	99.3	26.1
	85	1000	153.40	82.92	200.6	174.2	50.0
	132	1500	158.73	85.8	302.6	262.8	76.0
SA-180X	160	2000	144.36	78.03	359.7	312.4	100.0
	50	500	180.63	97.64	124.5	108.1	26.1
	100	1000	180.49	97.56	238.2	206.9	51.2
	150	1500	180.28	97.45	342.8	297.7	76.1
	187	2000	168.72	91.2	421.2	365.8	100.0

MODEL
SA-225
FUKUTA SERVO MOTOR



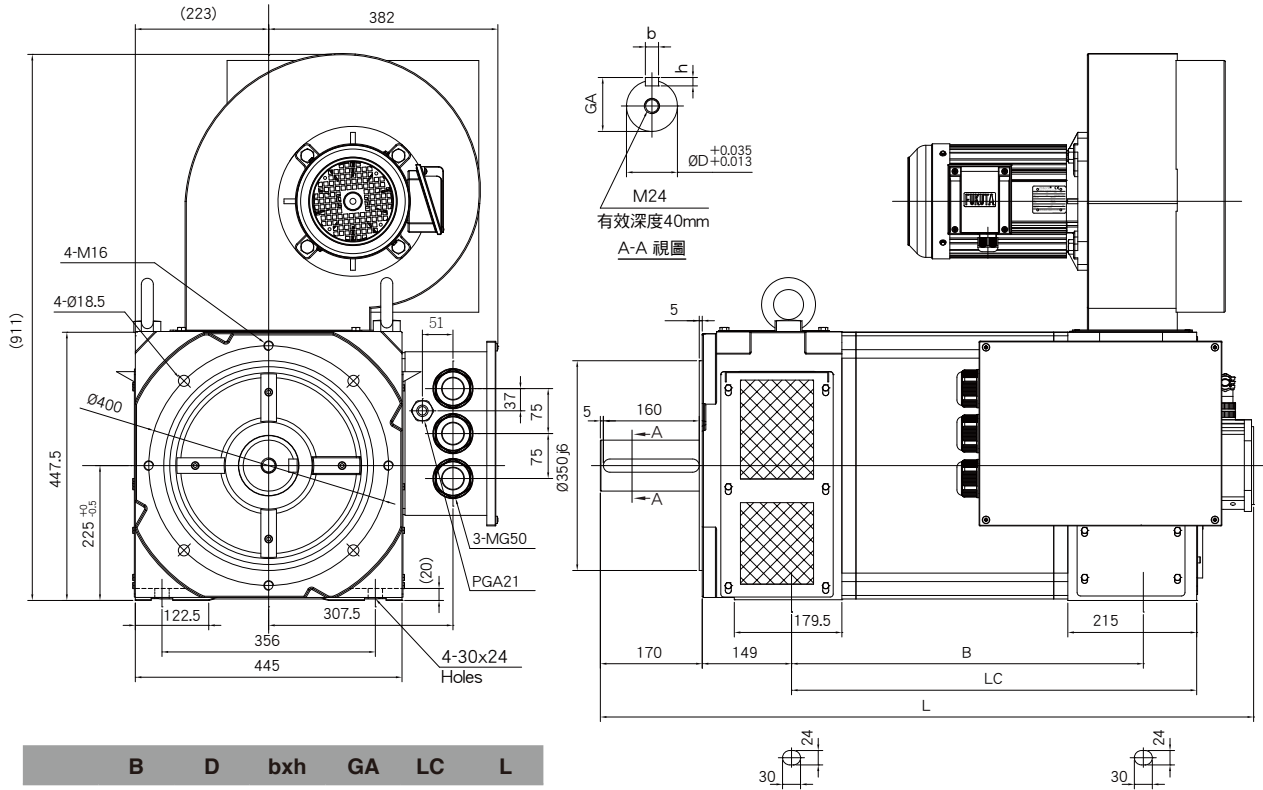
產品規格 Standard

輸出 Output(kw)	115	150	168	200
框 號 Frame No.	225S	225M	225L	225X
效 率 Efficiency(%)	92.4%	92.4%	93.0%	93.1%
功 因 Power Factor	0.845	0.860	0.876	0.876
R1(Ω) @25°C	0.0624	0.0480	0.0386	0.0313
極 數 Poles	6	6	6	6
轉動慣量 Rotor Inertial(kg·m²)	1.7946	2.1492	2.6569	3.1608
激磁電流 Magnetizing Current(A)	89.6	102.6	103.3	119.1
額定轉速 Rated Speed (rpm)	1000	1000	1000	1000
最高轉速 Max. Speed (rpm)	3000	3000	3000	3000
重 量 Weight(kg)	710.0	800.0	870.0	1050.0
編 碼 器 Encoder	1024PPR RS422(Line-drive)/Push-Pull			
風 扇 Elec.Fan	3ø 220/380V 50/60Hz 8/4.6A			
軸 承 Bearings	LS:6320C3		OS:6316C3	

※編碼器之選用依需求為主

一般條件 General Data

安裝方式 Mounting	IM 2001(B3/B5)
保護方式 Protection	IP23
轉子平衡 Rotor Balancing	R級 (ISO2373)R Degree
絕緣等級 Insulation	H級 Class H
冷卻系統 Cooling Sys.	強制通風 Forced Air Cooled
熱保護 Thermal Protection	熱保護器 (常閉) Thermal Protector (NC)
噪音 Noise	80dBA
周溫 Ambient Temp.	-15°C~40°C
高度 Altitude	海拔1000米 1000m ASL



	B	D	bxh	GA	LC	L
225S	587	85	22x14	90	676	1090
225M	657	85	22x14	90	746	1160
225L	757	95	25x14	100	846	1260
225X	857	95	25x14	100	946	1360

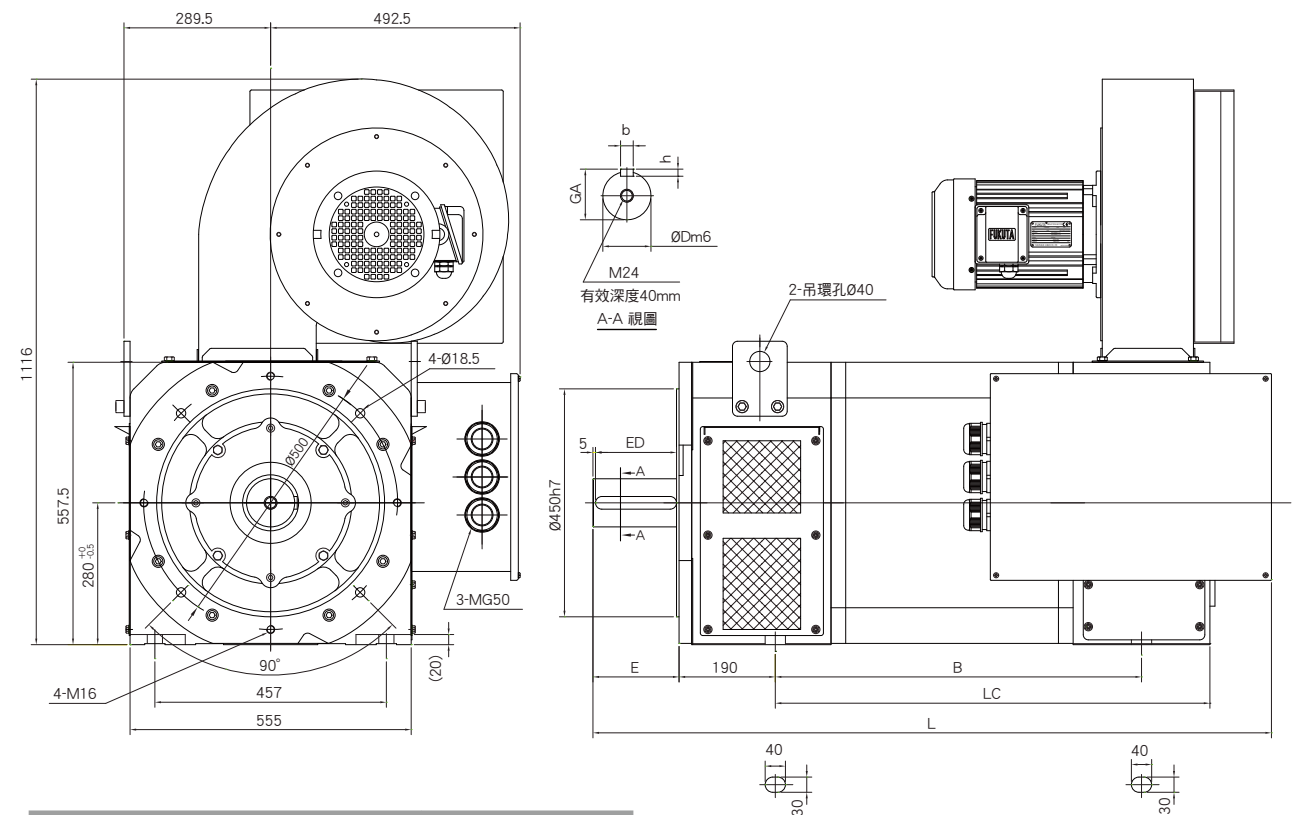
FUKUTA® 伺服馬達規格之選用

框號 Fr. No.	額定輸出 Rated Output	額定轉速 Rated Speed	最大轉矩 Max. Torque	額定轉矩 Rated Torque	額定電流 Rated Current	額定頻率 Rated Frequency
	kw	RPM	kg-m	kg-m	380V	Hz
SA-225S	55	500	267.9	107.14	109.0	25.8
	115	1000	280.2	112.06	224.0	50.8
	168	1500	272.5	109.0	330.0	75.8
	220	2000	268.0	107.2	407.0	100.9
SA-225M	75	500	365.5	146.2	149.0	25.9
	150	1000	365.5	146.2	287.0	50.9
	220	1500	357.3	142.9	414.0	75.9
	300	2000	365.5	146.2	555.0	100.9
SA-225L	84	500	409.25	163.7	163.4	25.8
	168	1000	409.25	163.7	313.0	50.8
	250	1500	406	162.4	464.0	75.8
	330	2000	402	160.8	644.0	100.7
SA-225X	100	500	467.28	194.7	191.2	25.8
	200	1000	467.28	194.7	377.6	50.9
	300	1500	467.28	194.7	541.5	75.8
	375	2000	438.48	182.7	672.3	101.0

MODEL

SA-280

FUKUTA SERVO MOTOR



	B	D	E	ED	bxh	GA	L	LC
280S	723	95	170	160	25X14	100	1339.5	858
280M	803	95	170	160	25X14	100	1419.5	938
280L	893	100	210	200	28X16	106	1549.5	1028
280X	953	100	210	200	28X16	106	1609.5	1088

產品規格 Standard

輸出 Output(kw)	265	305	360	390
框 號 Frame No.	280S	280M	280L	280X
效 率 Efficiency(%)	92.9	95.5	96.0	96.1
功 因 Power Factor	0.855	0.853	0.854	0.869
R1(Ω) @25°C	0.019	0.017	0.012	0.011
極 數 Poles	6	6	6	6
轉動慣量 Rotor Inertial(kg·m²)	5.2910	6.2986	7.4323	8.1881
激磁電流 Magnetizing Current(A)	106.0	198.4	252.9	246.2
額定轉速 Rated Speed (rpm)	1000	1000	1000	1000
最高轉速 Max. Speed (rpm)	3000	3000	3000	3000
重 量 Weight(kg)	1100.0	1300.0	1450.0	1600.0
編 碼 器 Encoder	1024PPR RS422(Line-drive)/Push-Pull			
風 扇 Elec.Fan	3ø 220/380V 50/60Hz 8/4.6A			
軸 承 Bearings	LS:6322C3		OS:6318C3	

※編碼器之選用依需求為主

一般條件 General Data

安裝方式 Mounting	IM 2001(B3/B5)
保護方式 Protection	IP23
轉子平衡 Rotor Balancing	R級 (ISO2373)R Degree
絕緣等級 Insulation	H級 Class H
冷卻系統 Cooling Sys.	強制通風 Forced Air Cooled
熱保護 Thermal Protection	熱保護器 (常閉) Thermal Protector (NC)
噪音 Noise	80dBA
周溫 Ambient Temp.	-15°C~40°C
高度 Altitude	海拔1000米 1000m ASL

FUKUTA® 伺服馬達規格之選用

框號 Fr. No.	額定輸出 Rated Output	額定轉速 Rated Speed	最大轉矩 Max. Torque	額定轉矩 Rated Torque	額定電流 Rated Current	額定頻率 Rated Frequency
	kw	RPM	kg·m	kg·m	380V	Hz
SA-280S	132	500	643.18	257.27	247.4	25.5
	265	1000	645.63	258.25	475.6	50.5
	400	1500	649.65	259.86	718.8	75.5
	520	2000	633.43	253.37	899.5	100.5
SA-280M	150	500	730.88	292.35	287.0	25.5
	305	1000	743.00	297.2	568.9	50.6
	450	1500	730.85	292.34	833.1	75.6
SA-280L	600	2000	730.85	292.34	1097.5	100.6
	168	500	818.63	327.45	321.8	25.5
	360	1000	877.08	350.83	667.5	50.5
SA-280X	510	1500	812.10	331.33	957.7	75.5
	650	2000	791.73	316.69	1155.7	100.5
	190	500	925.75	370.3	339.6	25.5
SA-280X	390	1000	950.83	380.33	709.8	50.5
	560	1500	909.53	363.81	1058.3	75.5
	750	2000	913.58	365.43	1339.7	100.5