

MODEL

SF-80

FUKUTA SERVO MOTOR



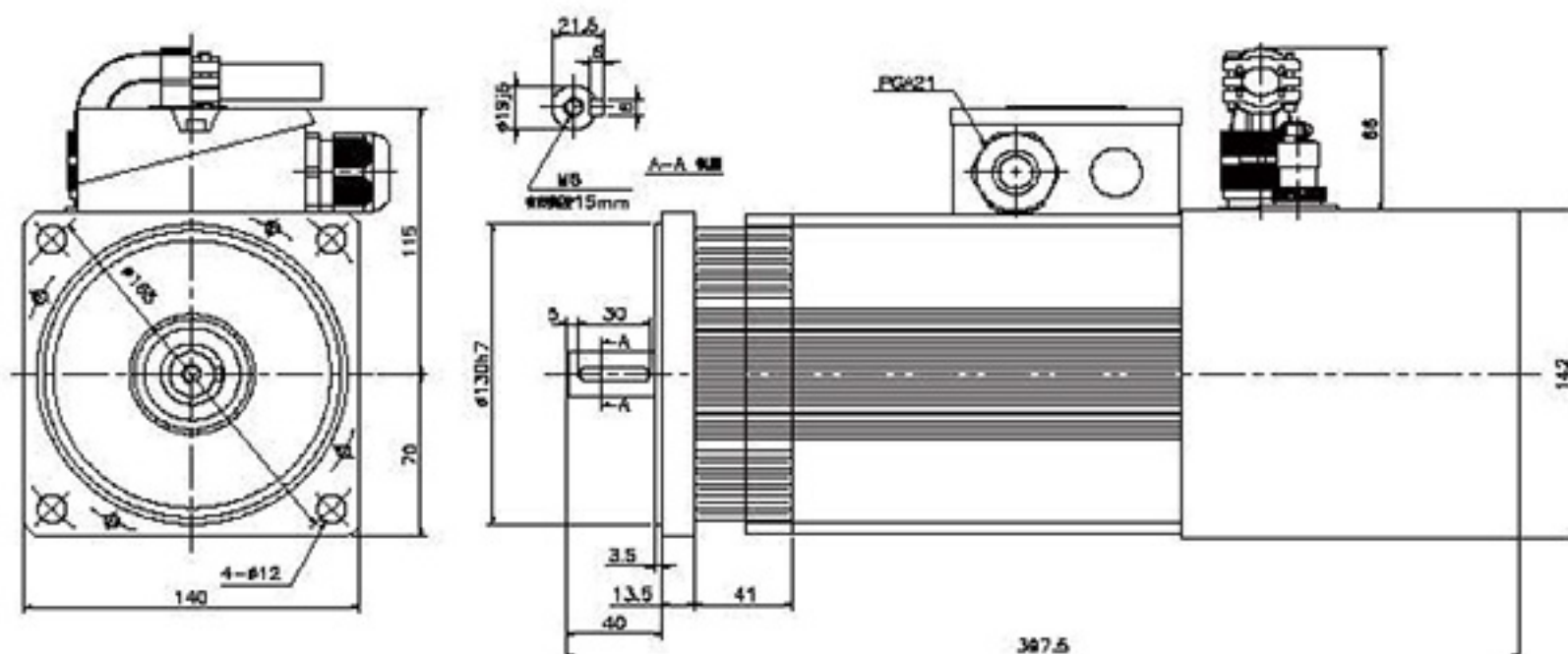
產品規格 Standard

輸出 Output(kw)	0.75	1.1
框號 Frame No.	80LA	80LB
效率 Efficiency(%)	82.3%	83.3%
功因 Power Factor	0.824	0.856
R1(Ω) @25℃	6.548	4.500
極數 Poles	4	4
轉動慣量 Rotor Inertia(kg·m²)	0.0020	0.0025
激磁電流 Magnetizing Current(A)	2.0	2.4
額定轉速 Rated Speed (rpm)	2000	2000
最高轉速 Max. Speed (rpm)	8000	8000
重量 Weight(kg)	13.0	14.4
編碼器 Encoder	1024PPR RS422 (Line-drive)/Push-Pull	
風扇 Elec.Fan	1ø 230V 50/60Hz 45/39W	
軸承 Bearings	LS6206C3	OS6205C3

※編碼器之應用依需求為主

一般條件 General Data

安裝方式 Mounting	IM 3001(B6)
保護方式 Protection	IP54
轉子平衡 Rotor Balancing	F級 (ISO2373) R Degree
絕緣等級 Insulation	H級 Class H
冷却系統 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
周圍 Ambient Temp.	-15℃~40℃
高度 Altitude	海拔1000米 1000m ASL
溫度感測器 Temperature sensor	KTY-84



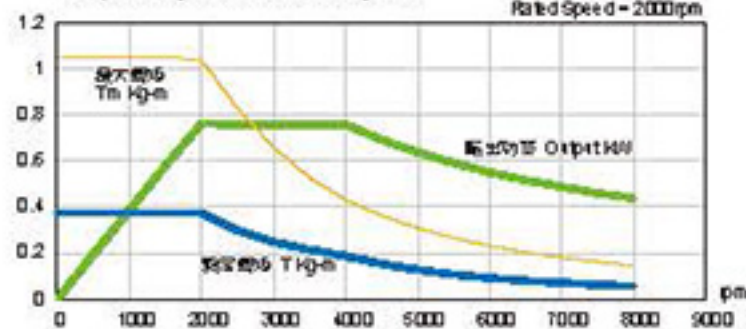
FUKUTA® 伺服馬達規格之選用

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
SF-80LA	0.75	2000	1.04	0.37	3.4	3.0	1.9	1.7	69.5
	1.1	3000	1.01	0.36	4.9	4.3	2.9	2.5	102.7
	1.4	4000	0.97	0.35	6.6	5.1	3.8	3.0	136.0
SF-80LB	1.1	2000	1.52	0.54	4.7	4.2	2.7	2.4	70.0
	1.6	3000	1.47	0.52	7.1	6.0	4.1	3.4	102.9
	2.1	4000	1.45	0.52	8.8	7.8	5.1	4.5	136.6

SF-80LA

Torque Diagram / Power Diagram

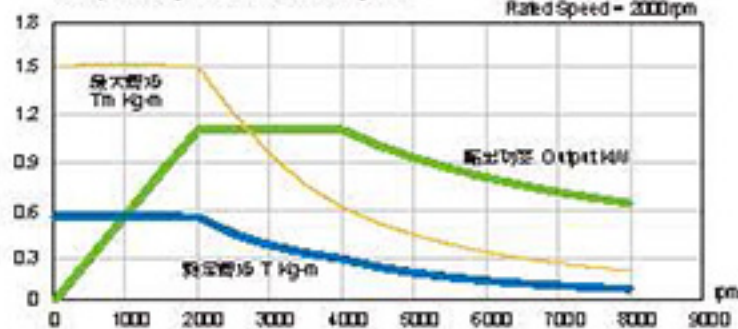
Rated Output = 0.75kW
Rated Speed = 2000rpm



SF-80LB

Torque Diagram / Power Diagram

Rated Output = 1.1kW
Rated Speed = 2000rpm



MODEL
SF-90
FUKUTA SERVO MOTOR



產品規格 Standard

箱 出 Output(kw)	1.5	2.2	3.7
框 號 Frame No.	90 MA	90MB	90L
效 率 Efficiency(%)	83.8%	83.7%	84.3%
功 因 Power Factor	0.854	0.88	0.894
R1(Ω) @25℃	3.257	2.258	1.321
極 數 Poles	4	4	4
轉動慣量 Rotor Inertia(kg·m ²)	0.0030	0.0038	0.0059
激磁電流 Magnetizing Current(A)	3.2	3.9	6.1
額定轉速 Rated Speed (rpm)	2000	2000	2000
最高轉速 Max. Speed (rpm)	8000	8000	8000
重 量 Weight(kg)	16.4	18.9	26.0
編 碼 器 Encoder	1024PPR RS422(Line-drive) Push-Pull		
風 扇 Elec. Fan	1ø 230V 50/60Hz 45/39W		
軸 承 Bearings	LS6206C3	OS6205C3	

※ 編碼器之應用依需求為主

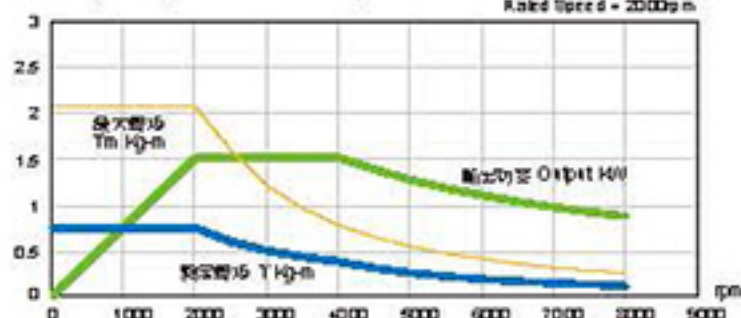
一般條件 General Data

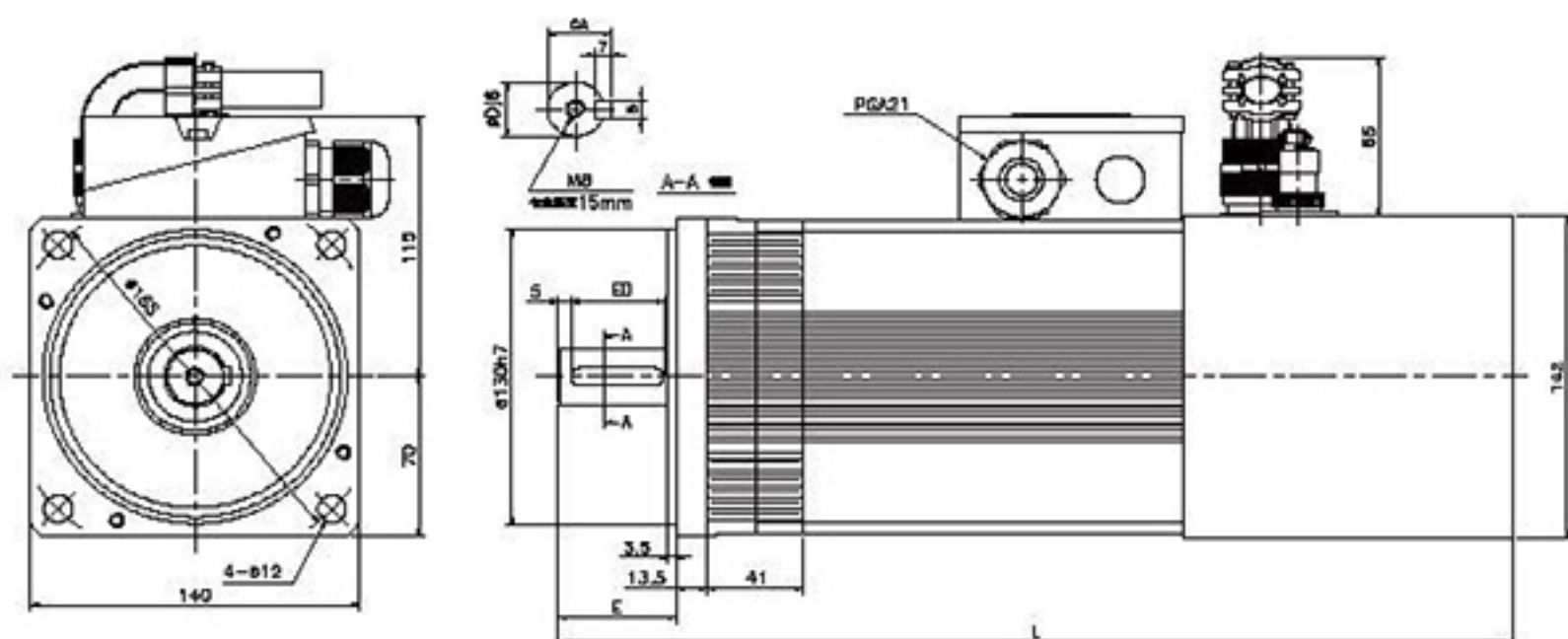
安裝方式 Mounting	IM 3001(E6)
保護方式 Protection	IP54
轉子平衡 Rotor Balancing	R級 (ISO2373) R Degree
絕緣等級 Insulation	H級 Class H
冷却系統 Cooling Sys.	強制通風 Forced Air Cooled
熱保護 Thermal Protection	熱保護器 (常閉) Thermal Protector(NC)
噪音 Noise	80 dBA
周圍溫度 Ambient Temp.	-15℃~40℃
高度 Altitude	海拔 1000 米 1000m ASL
溫度感測器 Temperature sensor	KTY-84

SF-90MA

Torque Diagram / Power Diagram

Rated Output = 1.5kW
Rated Speed = 2000rpm





	E	ED	D	GA	L
90MA	50	40	24	27	408
90MB	50	40	24	27	433
90L	60	50	28	31	508

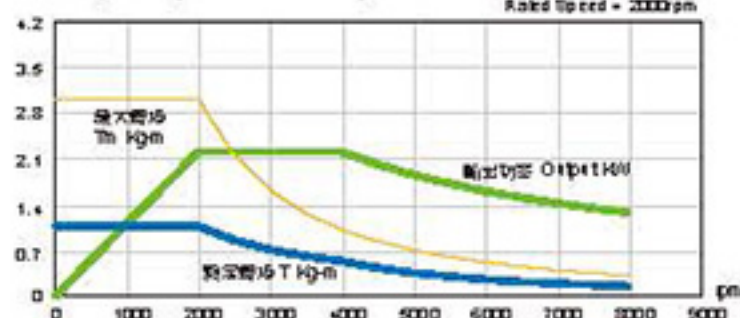
FUKUTA® 伺服馬達規格之選用

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
SF-90MA	1.1	1500	2.01	0.72	5.1	4.4	3.0	2.6	52.6
	1.5	2000	2.06	0.74	6.4	5.6	3.7	3.2	69.9
	2	3000	1.83	0.65	8.5	7.4	4.9	4.3	102.9
	2.5	4000	1.72	0.61	10.4	9.2	6.0	5.3	136.2
SF-90MB	1.6	1500	2.92	1.04	7.1	6.3	4.1	3.6	53.0
	2.2	2000	3.02	1.08	9.1	8.0	5.2	4.6	70.5
	3	3000	2.88	1.03	12.3	11.3	7.1	6.5	103.3
	4.2	4000	2.77	1.02	16.5	14.3	9.5	8.2	137.1
SF-90L	2.7	1500	4.92	1.76	11.9	10.3	6.9	5.9	52.8
	3.7	2000	5.06	1.81	14.9	13.5	8.6	7.8	70.6
	5.1	3000	4.65	1.66	20.4	18.5	11.8	10.7	103.3
	6.4	4000	4.38	1.56	25.5	21.9	14.7	12.6	136.4

SF-90MB

Torque Diagram / Power Diagram

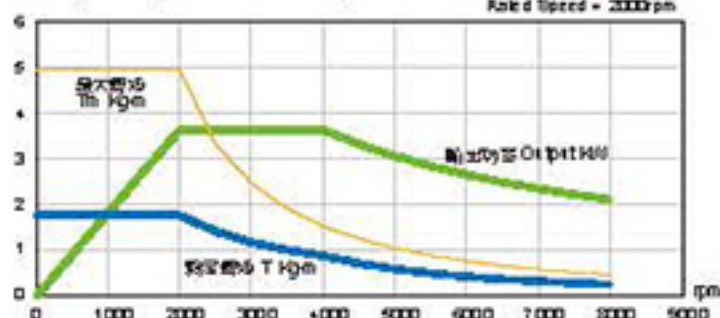
Rated Output = 2.2kW
Rated Speed = 2000rpm



SF-90L

Torque Diagram / Power Diagram

Rated Output = 3.7kW
Rated Speed = 2000rpm



MODEL

SF-100

FUKUTA SERVO MOTOR



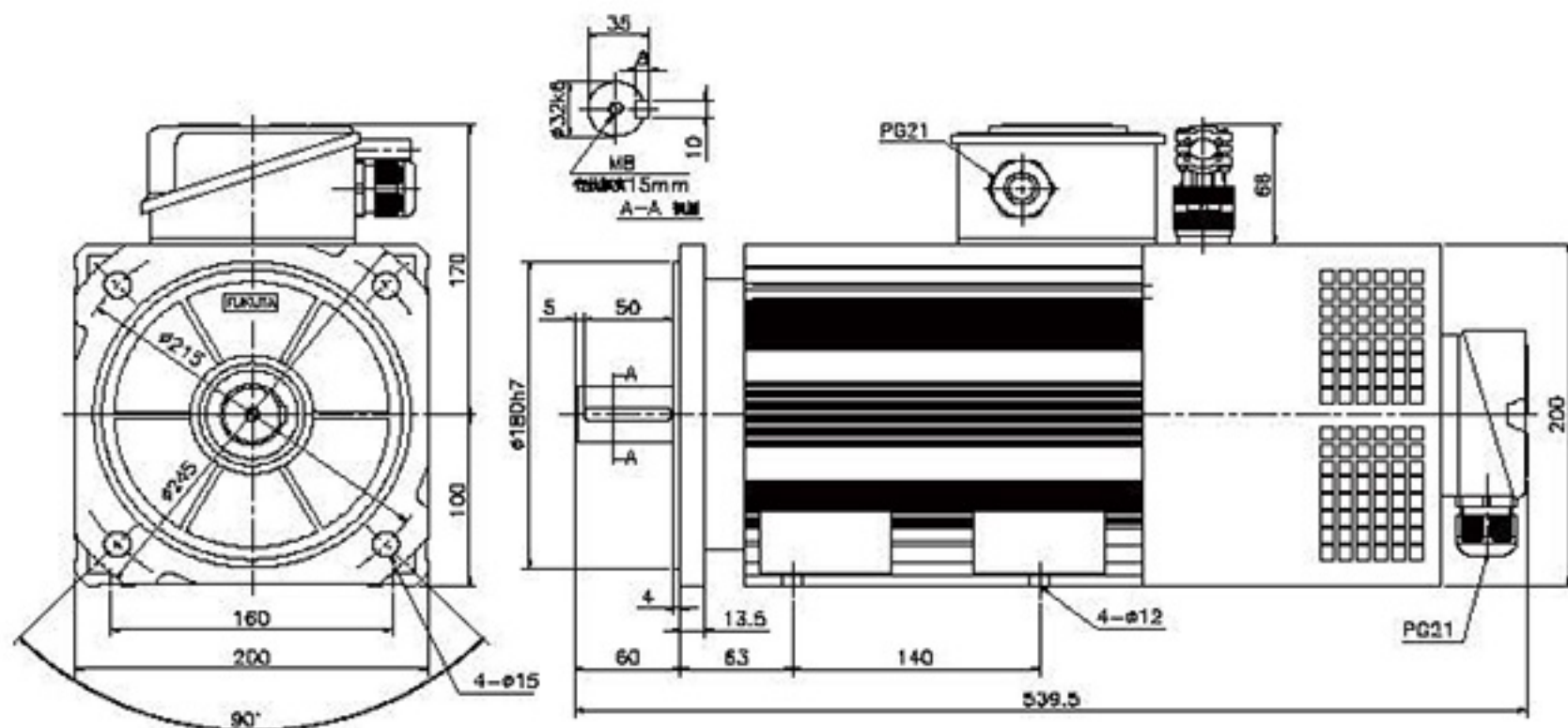
產品規格 Standard

輸出 Output(kw)	3.8	5.5
框號 Frame No.	100LA	100LB
效率 Efficiency(%)	86.7%	86.4%
功率因數 Power Factor	0.864	0.888
R1(Ω) @25℃	0.983	0.659
極數 Poles	4	4
轉動慣量 Rotor Inertia(kg-cm ²)	0.0061	0.0076
激磁電流 Magnetizing Current(A)	6.5	8.8
額定轉速 Rated Speed (rpm)	2000	2000
最高轉速 Max. Speed (rpm)	8000	8000
重量 Weight(kg)	29.5	33
編碼器 Encoder	1024PPR RS422 (Line-drive) / Push-Pull	
風扇 Cooling Fan	1φ 230V 50/60Hz 82/100W	
軸承 Bearing	LS6307c3	OS6305c3

※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	IP54
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
周圍溫度 Ambient Temp.	-15℃~40℃
高度 Altitude	海拔1000米 1000m ASL
溫度感測器 Temperature sensor	KTY-84



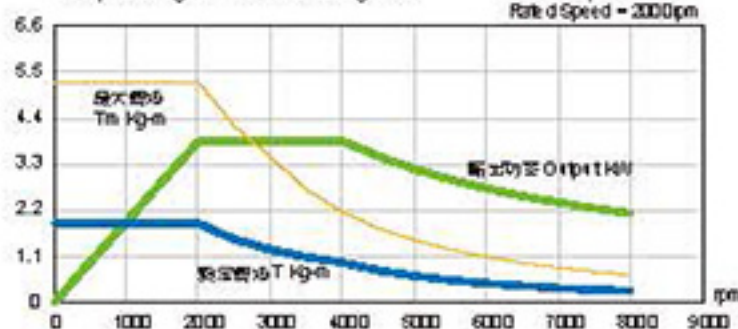
FUKUTA® 伺服馬達規格之選用

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
SF-100LA	2.8	1500	5.1	1.82	11.5	9.9	6.6	5.7	52.9
	3.8	2000	5.2	1.86	15.4	13.2	8.9	7.6	69.4
	5.2	3000	4.74	1.69	23.0	17.8	13.3	10.3	102.6
	6.4	4000	4.6	1.60	24.5	21.9	14.1	12.6	136.6
SF-100LB	4.0	1500	7.29	2.60	16.1	14.6	9.3	8.4	53.1
	5.5	2000	7.52	2.69	21.8	18.6	12.6	10.7	69.7
	7.1	3000	6.74	2.41	31.2	25.0	18.0	14.4	101.8
	9.0	4000	6.15	2.2	33.7	31.5	19.4	18.2	136.2

SF-100LA

Torque Diagram / Power Diagram

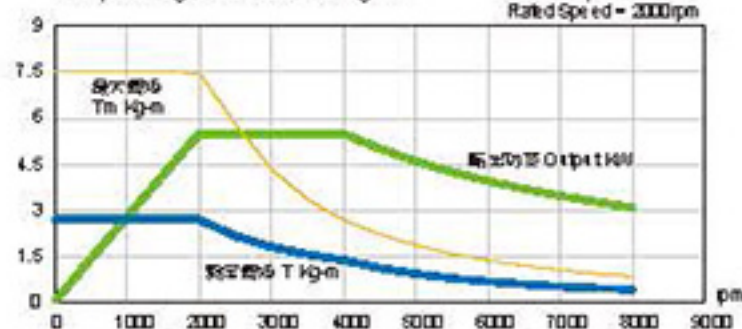
Rated Output = 3.8kW
Rated Speed = 2000rpm



SF-100LB

Torque Diagram / Power Diagram

Rated Output = 5.5kW
Rated Speed = 2000rpm



MODEL
SF-112
FUKUTA SERVO MOTOR



產品規格 Standard

輸出 Output(kw)	7.5	11	15
機號 Frame No.	112L	112XA	112XB
效率 Efficiency(%)	90.0%	90.5%	90.5%
功率因數 Power Factor	0.903	0.895	0.906
R1(Ω) @25℃	0.368	0.233	0.174
極數 Poles	4	4	4
轉動慣量 Rotor Inertia(kg·m²)	0.0153	0.0212	0.0282
激磁電流 Magnetizing Current(A)	11.4	16.3	19.9
額定轉速 Rated Speed (rpm)	2000	2000	2000
最高轉速 Max. Speed (rpm)	7000	7000	7000
重量 Weight(kg)	45.0	65	72.0
編碼器 Encoder	1024PPR RS422(Line-drive) / Push-Pull		
風扇 Bec. Fan	1ø 230V 50/60Hz 82/100W		
軸承 Bearings	LS-6308C3	OS6306C3	

※編碼器之應用依需求為主

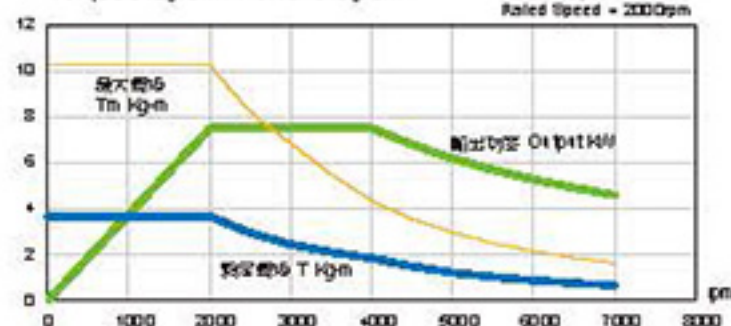
一般條件 General Data

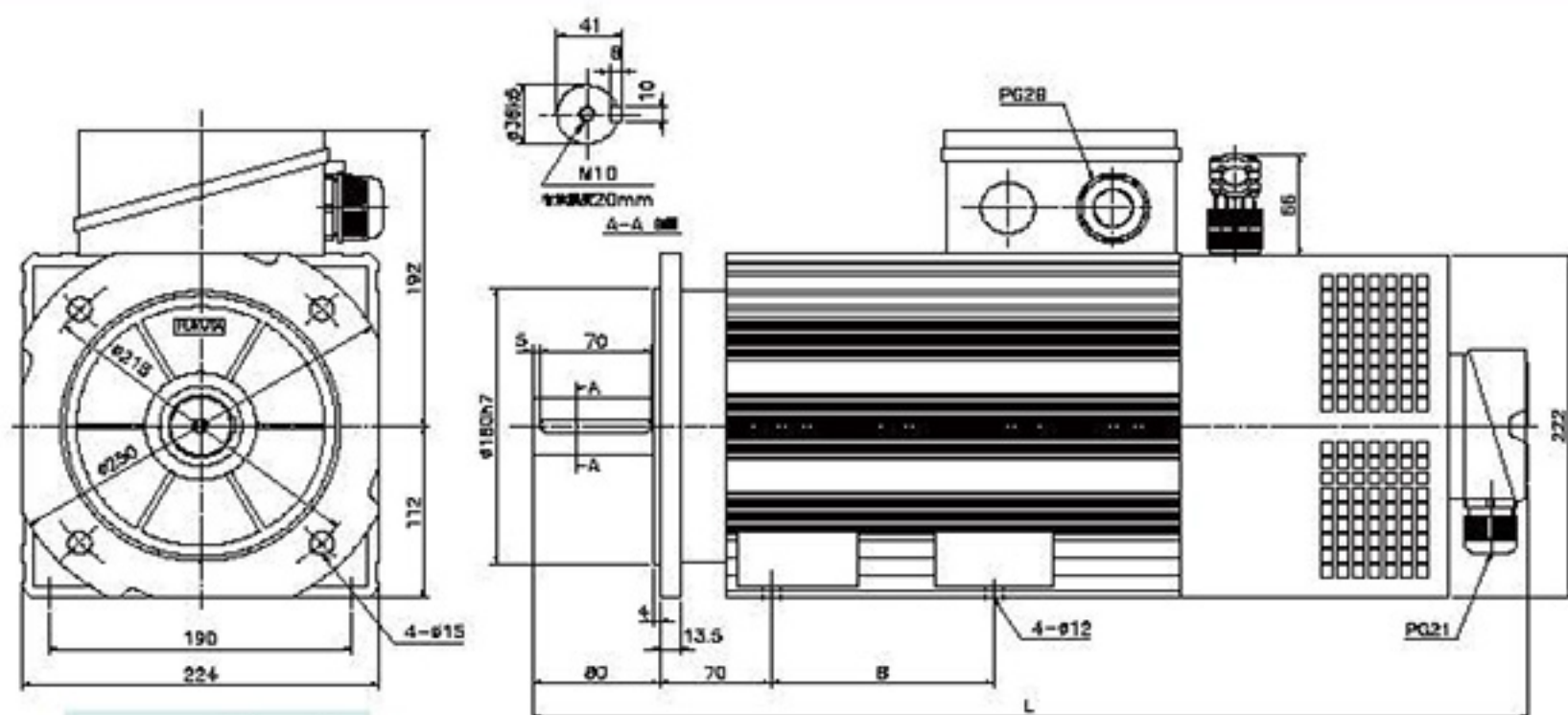
安裝方式 Mounting	IM 2001(B3/B5)
保護方式 Protection	IP54
轉子平衡 Rotor Balancing	R級 (ISO2373) R Degree
絕緣等級 Insulation	H級 Class H
冷卻系統 Cooling Sys.	強制通風 Forced Air Cooled
熱保護 Thermal Protection	熱保護器 (常閉) Thermal Protector(NC)
噪音 Noise	80dBA
周圍溫度 Ambient Temp.	-15℃~40℃
高度 Altitude	海拔1000米 1000m ASL
溫度感測器 Temperature sensor	KTY-84

SF-112L

Torque Diagram / Power Diagram

Rated Output = 7.5kW
Rated Speed = 2000rpm





	B	L
112L	140	625
112XA	165	655
112XB	245	735

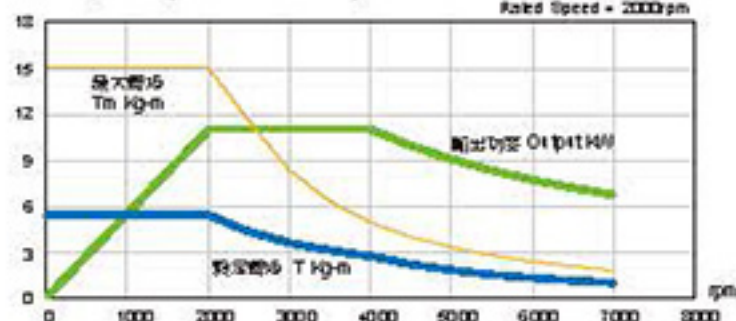
FUKUTA® 伺服馬達規格之選用

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
SF-112L	5.5	1500	10.02	3.58	22.6	19.6	13.0	11.3	52.1
	7.5	2000	10.25	3.66	28.0	25.2	16.2	14.6	69.0
	10.0	3000	9.11	3.25	38.0	33.0	22.0	19.1	102.1
	12.0	4000	8.2	2.93	45.1	39.1	26.0	22.6	135.5
SF-112XA	8.2	1500	14.8	5.3	32.3	27.9	18.7	16.1	52.0
	11.0	2000	15.02	5.37	41.2	39.0	23.8	22.5	69.0
	15.0	3000	13.3	4.7	57.9	50.4	33.4	29.1	102.0
	16.5	4000	10.8	3.8	62.5	54.0	36.1	32.1	133.3
SF-112XB	11.0	1500	20.37	7.27	43.6	37.9	25.2	21.9	52.4
	15.0	2000	20.48	7.31	55.5	48.5	32.0	28.0	69.0
	20.0	3000	18.1	6.5	77.6	67.0	44.8	38.7	102.2
	25.0	4000	17.1	6.1	93.2	80.5	53.8	46.5	133.3

SF-112XA

Torque Diagram / Power Diagram

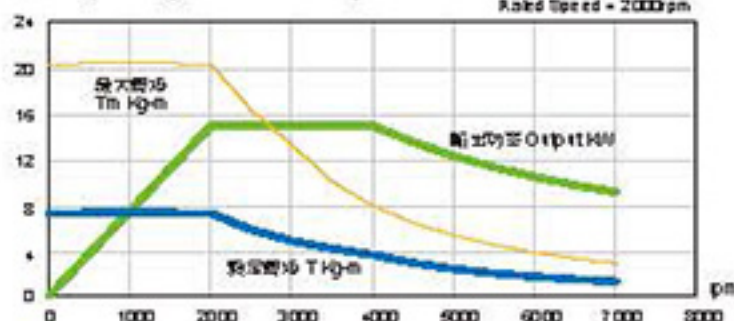
Rated Output = 11kW
Rated Speed = 2000rpm



SF-112XB

Torque Diagram / Power Diagram

Rated Output = 15kW
Rated Speed = 2000rpm



MODEL

SF-132

FUKUTA SERVO MOTOR



產品規格 Standard

輸出 Output(kw)	15	18.5	22	30
機號 Frame No.	132MA	132MB	132L	132LA
效率 Efficiency(%)	90.2%	91.5%	92.1%	91.5%
功率因數 Power Factor	0.924	0.91	0.90	0.915
R1(Ω) @25℃	0.221	0.146	0.106	0.086
極數 Poles	4	4	4	4
轉動慣量 Rotor Inertia(kg·m ²)	0.0404	0.0498	0.0608	0.0735
激磁電流 Magnetizing Current(A)	14.3	20.7	28.1	31.2
額定轉速 Rated Speed (rpm)	2000	2000	2000	2000
最高轉速 Max. Speed (rpm)	6000	6000	6000	6000
重量 Weight(kg)	77.5	87.0	107.0	123.0
編碼器 Encoder	1024PPR RS422(Line-drive)/Push-Pull			
風扇 Elec. Fan	1ø 230V 50/60Hz 105/145W			
軸承 Bearings	LS6309C3		OS6308C3	

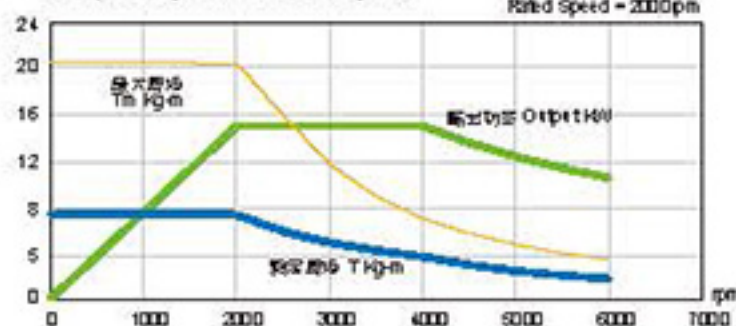
※編碼器之應用依需求為主

一般條件 General Data

安裝方式 Mounting	IM 2001(B3/B5)
保護方式 Protection	IP54
轉子平衡 Rotor Balancing	F級 (ISO2373)R Degree
絕緣等級 Insulation	H級 Class H
冷却系統 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
周圍溫度 Ambient Temp.	-15℃~40℃
高度 Altitude	海拔1000米 1000m ASL
溫度感測器 Temperature sensor	KTY-84

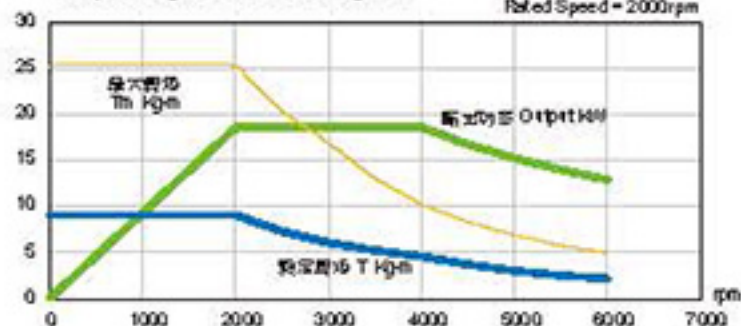
SF-132MA

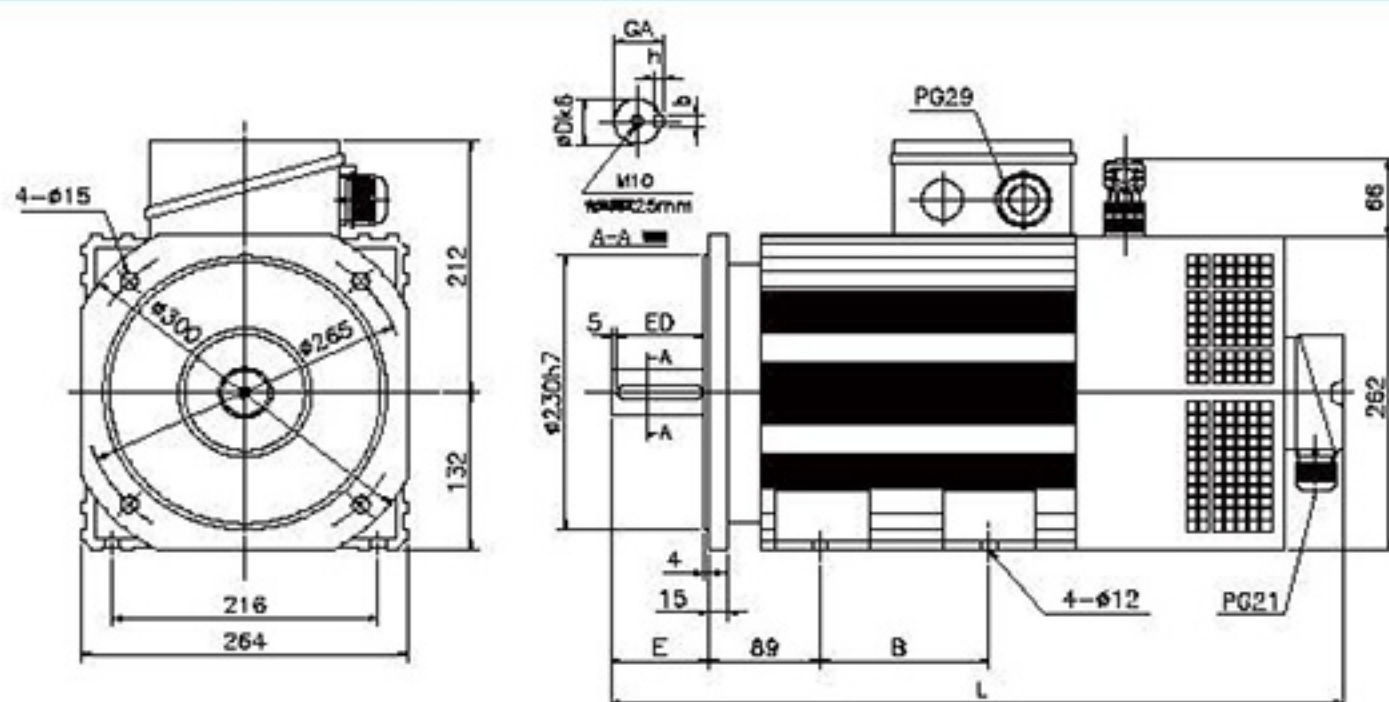
Torque Diagram / Power Diagram

Rated Output = 15kW
Rated Speed = 2000rpm

SF-132MB

Torque Diagram / Power Diagram

Rated Output = 18.5kW
Rated Speed = 2000rpm



	B	D	E	ED	b	h	GA	L
132MA	138	38	80	70	10	8	41	595
132MB	178	42	110	100	12	8	45	665
132L	287	42	110	100	12	8	45	750
132LA	332	42	110	100	12	8	45	795

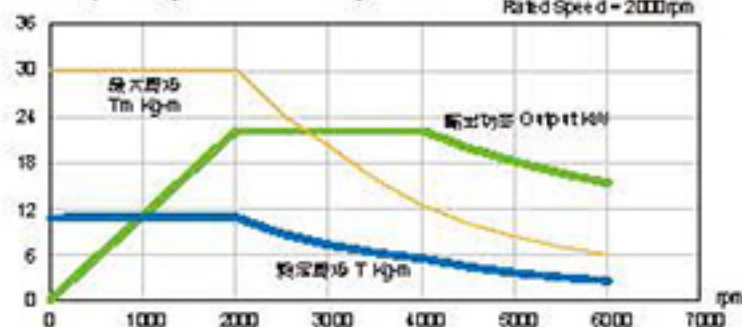
FUKUTA® 伺服馬達規格之選用

機號 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
SF-132MA	11.0	1500	20	7.14	42.0	36.3	24.3	21.0	51.7
	15.0	2000	20.48	7.31	54.6	48.3	31.5	27.9	68.7
	20.0	3000	18.21	6.5	76.9	63.5	44.4	36.6	101.7
	25.0	4000	17.6	6.2	92.5	79.8	53.4	46.1	133.3
SF-132MB	13.8	1500	25.13	8.97	52.9	45.2	30.5	26.1	51.6
	18.5	2000	25.25	9.02	67.4	60.0	38.9	34.6	68.4
	26.0	3000	23.66	8.45	98.3	85.1	56.7	47.4	101.7
	33.3	4000	23	8.2	121.5	104.9	70.1	60.6	133.3
SF-132L	16.5	1500	30.3	10.72	63.2	54.6	36.5	31.5	51.5
	22.0	2000	30.03	10.72	80.6	71.1	46.5	41.1	68.2
	31.0	3000	28.2	10.07	117.6	99.1	67.9	57.2	101.5
	37.4	4000	25.7	9.1	136.0	117.4	78.5	67.8	133.3
SF-132LA	22.0	1500	40	14.2	84.6	73.1	48.9	42.2	51.7
	30.0	2000	40.94	14.62	108.7	103.6	62.8	59.8	68.5
	40.0	3000	37.8	13	153.8	132.9	88.8	76.7	101.2
	50.0	4000	35.2	12.4	184.9	159.7	106.8	92.2	133.3

SF-132L

Torque Diagram / Power Diagram

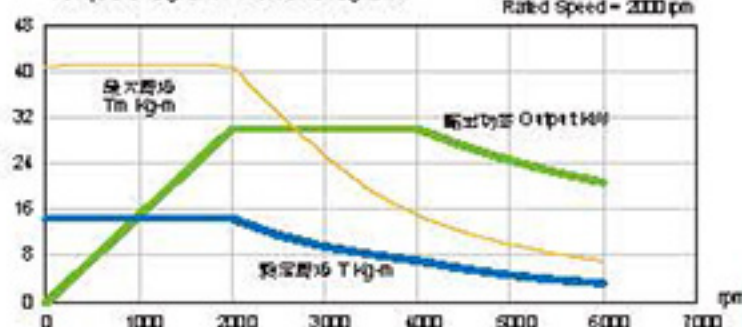
Rated Output = 22kW
Rated Speed = 2000rpm



SF-132LA

Torque Diagram / Power Diagram

Rated Output = 30kW
Rated Speed = 2000rpm



MODEL
SF-160
FUKUTA SERVO MOTOR



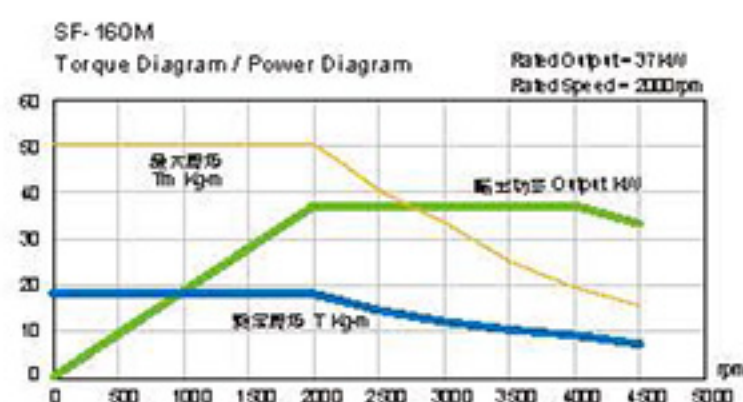
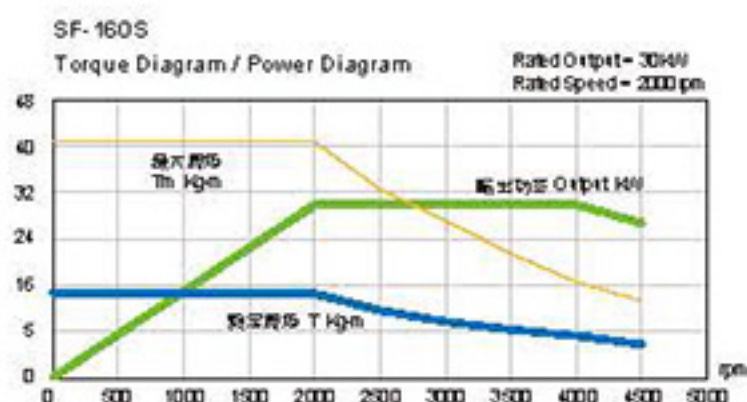
產品規格 Standard

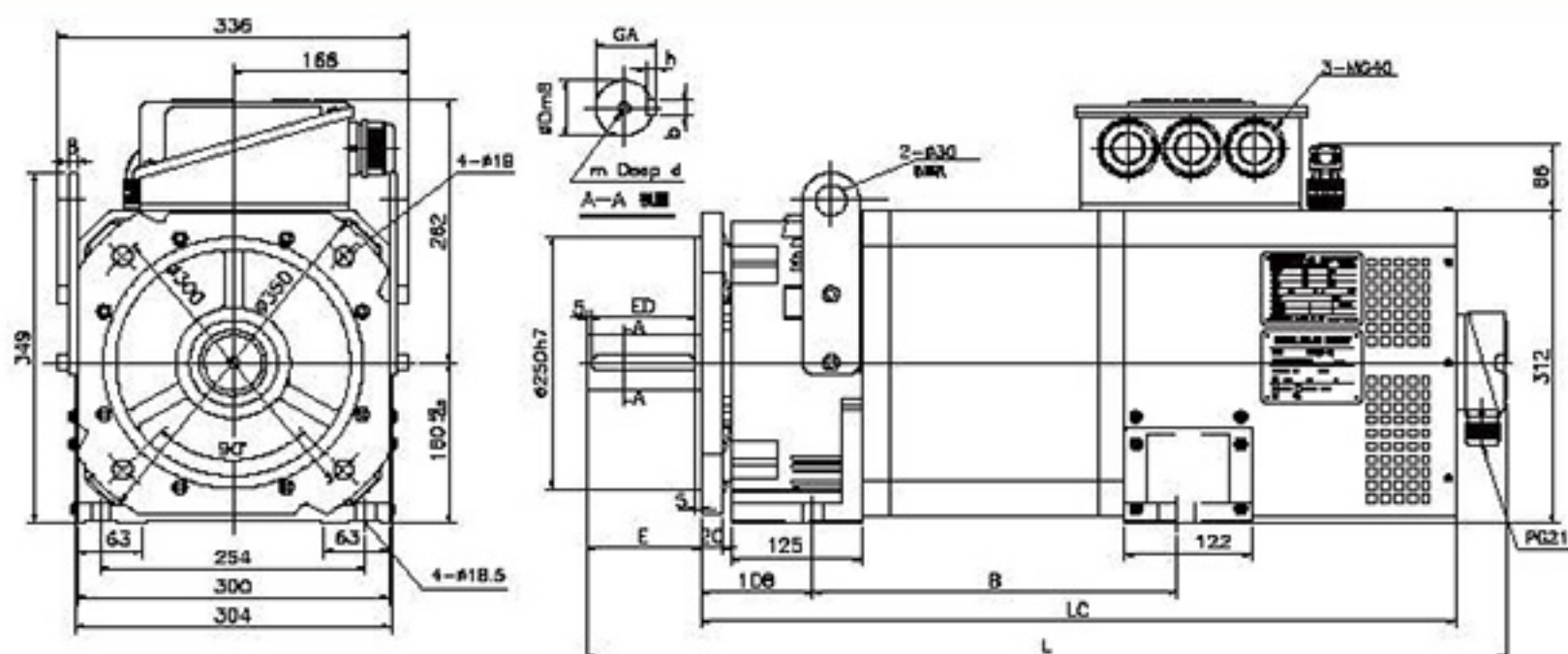
輸出 Output(kw)	30	37	45	55
機號 Frame No.	160S	160M	160L	160X
效率 Efficiency(%)	94.6%	95.1%	95.1%	95.2%
功因 Power Factor	0.827	0.854	0.844	0.839
R1(Ω) @25°C	0.045	0.033	0.027	0.020
極數 Poles	4	4	4	4
轉動慣量 Rotor Inertia(kg·m ²)	0.1675	0.2054	0.2427	0.3023
激磁電流 Magnetizing Current(A)	46.9	59.2	75.2	78.4
額定轉速 Rated Speed (rpm)	2000	2000	2000	2000
最高轉速 Max. Speed (rpm)	4500	4500	4500	4500
重量 Weight(kg)	220.0	250.0	280.0	330.0
編碼器 Encoder	1024PPR RS422(Line-drive)/Push-Pull			
風扇 Elec. Fan	1ø 230V 50/60Hz 155/215W			
軸承 Bearings	160S	160M	160L	160X
	LS 6313	6313	6314	6315
	OS 6313	6313	6313	6314

一般條件 General Data

安裝方式 Mounting	IM 2001 (B3/B5)
保護方式 Protection	IP54
轉子平衡 Rotor Balancing	R級 (ISO2373) R Degree
絕緣等級 Insulation	H級 Class H
冷却系統 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
周圍溫度 Ambient Temp.	-15°C~40°C
高度 Altitude	海拔1000米 1000m ASL
溫度感測器 Temperature sensor	KTY-84

※編碼器之選用依需求為主





	B	D	E	ED	b×h	m×d	GA	L	LC
160S	349	55	110	100	16×10	M12×35	59	884	725
160M	399	60	140	130	18×11	M16×40	64	964	775
160L	449	60	140	130	18×11	M16×40	64	1014	825
160X	529	60	140	130	18×11	M16×40	64	1094	905

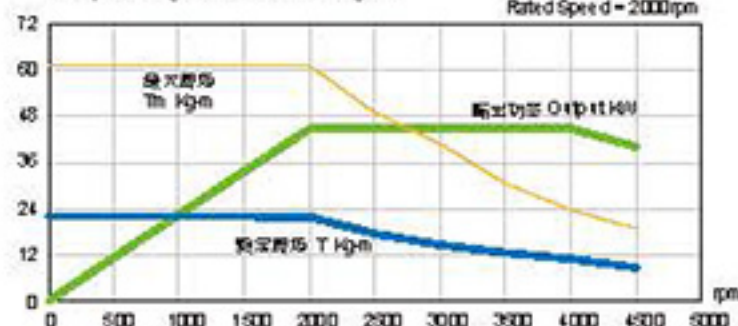
FUKUTA® 伺服馬達規格之選用

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
SF-160S	22	1500	40.08	14.31	87.4	74.1	50.5	42.8	50.9
	30	2000	41.03	14.63	116.6	100.8	67.3	58.2	67.6
	40	3000	38.3	13.0	152.8	132.0	88.2	76.2	100.8
	50	4000	35.6	12.2	191.0	162.7	110.3	93.9	134.1
SF-160M	28	1500	50.91	18.18	104.5	90.1	60.3	52.0	50.8
	37	2000	50.47	18.07	138.3	120.1	79.9	69.4	67.6
	52	3000	47.7	16.9	194.3	167.8	112.2	96.9	100.7
	63	4000	43.3	15.3	235.4	203.3	135.9	117.4	133.3
SF-160L	37	1500	61.2	22.16	125.5	108.4	72.1	62.6	50.9
	45	2000	61.41	21.93	170.3	148.5	98.3	85.7	67.5
	60	3000	55	19.5	224.2	193.9	129.5	112.0	100.7
	75	4000	51.6	18.3	280.3	242.1	161.8	139.8	133.3
SF-160X	45	1500	72.89	29.23	169.1	146.0	97.0	84.2	50.8
	55	2000	75.27	26.88	206.4	178.4	119.2	103.0	67.5
	75	3000	68.8	24.3	281.3	242.9	162.4	140.2	100.6
	90	4000	61.9	21.9	337.5	291.5	194.9	168.3	133.3

SF-160L

Torque Diagram / Power Diagram

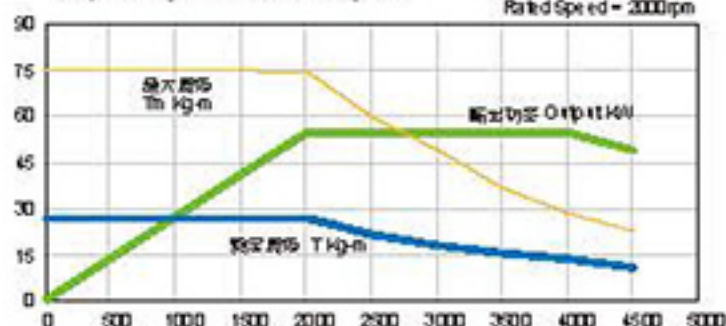
Rated Output = 45kW
Rated Speed = 2000rpm



SF-160X

Torque Diagram / Power Diagram

Rated Output = 55kW
Rated Speed = 2000rpm



MODEL

SF-180

FUKUTA SERVO MOTOR



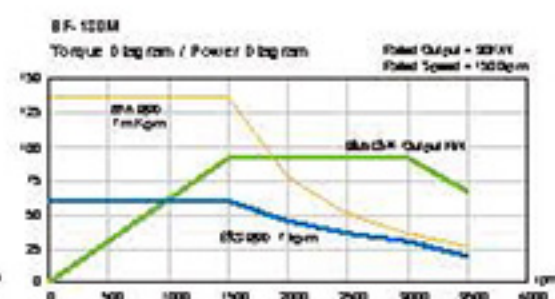
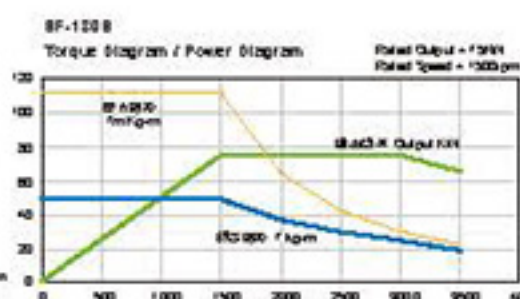
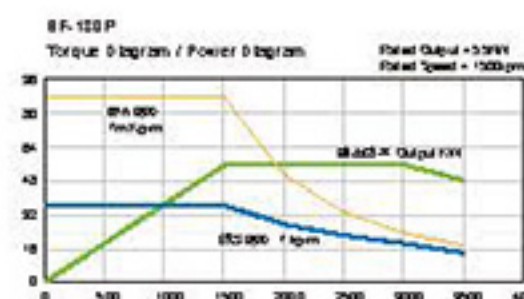
產品規格 Standard

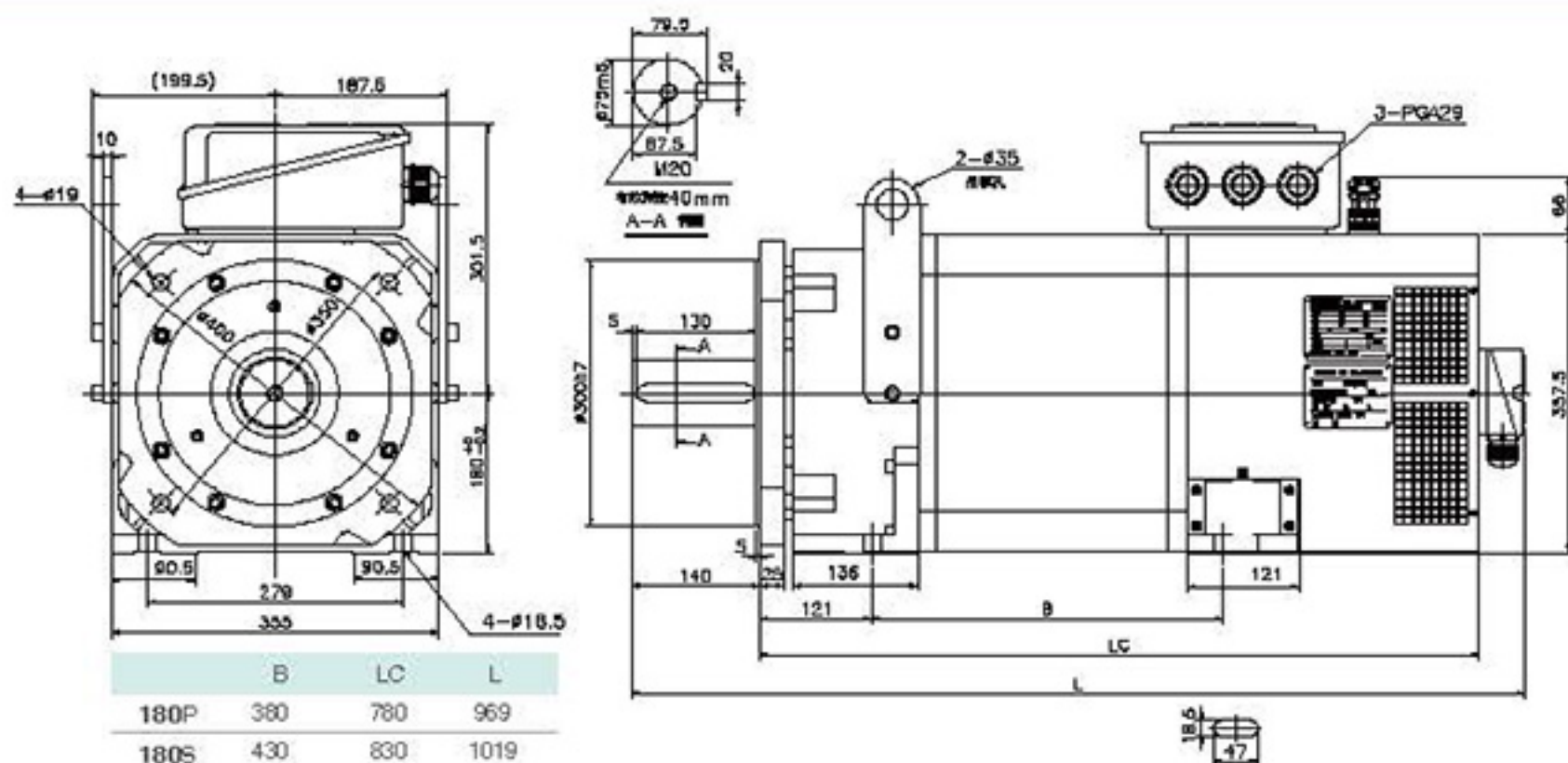
輸出 Output(kW)	55	75	90	110	132
框號 Frame No.	180P	180S	180M	180L	180X
效率 Efficiency(%)	92.8%	92.7%	93.8%	93.0%	92.8%
功率因數 Power Factor	0.831	0.825	0.828	0.808	0.822
R1(Ω) @25°C	0.084	0.065	0.053	0.038	0.035
極數 Poles	6	6	6	6	6
轉動慣量 Rotor Inertia(kg·m ²)	0.5463	0.6466	0.7369	0.9075	1.0479
激磁電流 Magnetizing Current(A)	44.7	62.1	71.6	99.3	107.5
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)	315.0	360.0	400.0	478.0	530.0
編碼器 Encoder	1024PPR RS422(Line-drive)/Push-Pull				
風扇 Elec. Fan	1ø 230V 50/60Hz 155/215W				
軸承 Bearings	LS:6316 C3		OS:6315 C3		

※編碼器之選用依需求為主

一般條件 General Data

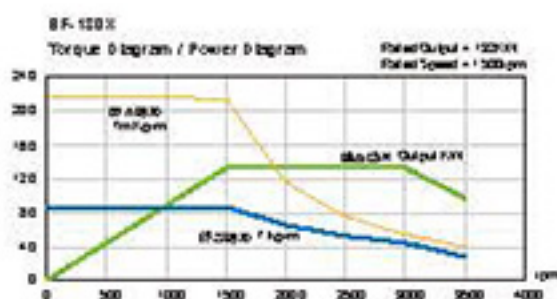
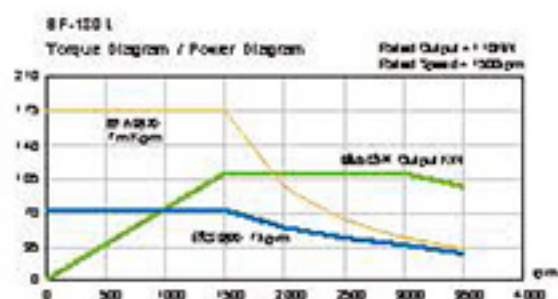
安裝方式 Mounting	IM 2001(B3/B5)
保護方式 Protection	IP54
轉子平衡 Rotor Balancing	R級 (ISO2373) R Degree
絕緣等級 Insulation	H級 Class H
冷卻系統 Cooling Sys.	強制通風 Forced Air Cooled
熱保護 Thermal Protection	熱保護器 (常閉) Thermal Protector (NC)
噪音 Noise	80dBA
周圍溫度 Ambient Temp.	-15°C~40°C
高度 Altitude	海拔1000米 1000m ASL
溫度感測器 Temperature sensor	KTY-84





FUKUTA® 伺服馬達規格之選用

規格 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
SF-180P	37	1000	90.25	36.1	84.7	73.5	51.3
	55	1500	87.41	35.8	124.8	107.8	76.2
	69	2000	83.75	33.5	154.4	133.5	101.2
	90	3000	73.25	29.3	200.3	172.5	151.2
SF-180S	50	1000	121.75	48.7	115.6	99.7	51.2
	75	1500	114.85	48.76	168.7	146.1	76.3
	94	2000	114.25	45.9	206.1	182.2	101.0
	124	3000	100.25	40.1	269.3	232.9	151.1
SF-180M	60	1000	145.08	58.5	139.7	120.6	51.2
	90	1500	134.86	58.52	206.8	175.9	76.2
	113	2000	136.15	55.1	250.4	215.9	101.3
	149	3000	119.54	48.2	326.8	282.8	151.3
SF-180L	73	1000	177.32	71.5	168.8	146.0	51.2
	110	1500	174.88	71.47	248.2	212.8	76.2
	138	2000	166.41	67.1	300.1	261.1	101.4
	181	3000	146.07	58.9	389.2	342.0	151.2
SF-180X	90	1000	212.54	85.7	202.0	176.3	51.4
	132	1500	212.8	85.8	297.4	254.4	76.4
	165	2000	199.4	80.4	363.1	314.0	101.4
	217	3000	175.1	70.6	483.5	425.0	151.1



MODEL

SA-132

FUKUTA SERVO MOTOR

產品規格 Standard

輸出 Output(kw)	11.0	13.8	16.5	22.0
框號 Frame No.	132S	132M	132L	132X
效率 Efficiency(%)	91.0%	90.6%	92.0%	92.0%
功因 Power Factor	0.886	0.91	0.894	0.90
R1(Ω) @25°C	0.349	0.3	0.189	0.14
極數 Poles	4	4	4	4
轉動慣量 Rotor Inertial(kg·m²)	0.0448	0.0598	0.0685	0.0898
激磁電流 Magnetizing Current(A)	13.6	16.4	19.0	23.6
額定轉速 Rated Speed (rpm)	1500	1500	1500	1500
最高轉速 Max. Speed (rpm)	6000	6000	6000	6000
重量 Weight(kg)	112.0	126.7	136.6	156.1
編碼器 Encoder	1024PPR RS422/Push-Pull			
風扇 Elec. Fan	3ø 220/380V 50/60Hz 3.5/2.1A			
軸承 Bearings	LS:6310C3 OS:6309C3			

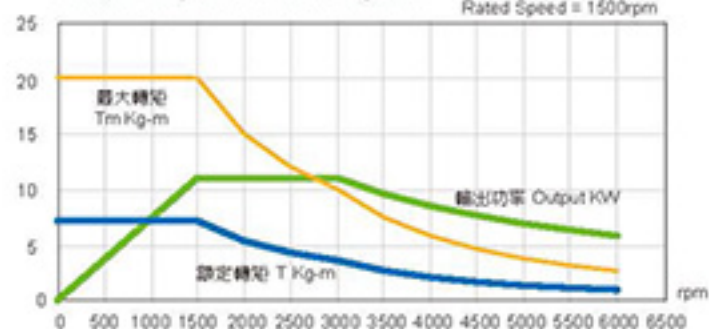
※編碼器之選用依需求為主

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 Cooling
熱保護 Thermal Protection	熱保護器 (常閉) Thermal Protector (NC)
噪音 Noise	80dBA
周圍溫度 Ambient Temp.	-15°C~40°C
高度 Altitude	海拔1000米 1000m ASL
溫度感測器 Temperature sensor	KT Y-84

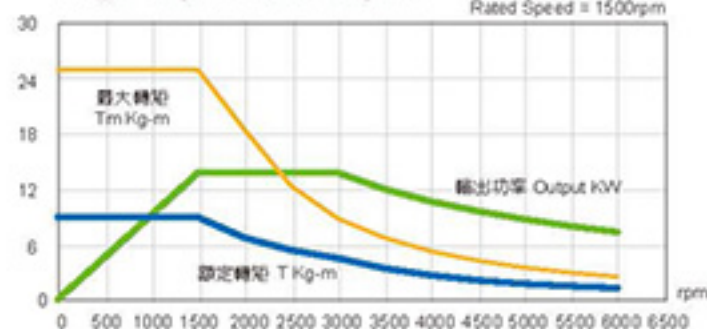
SA-132S

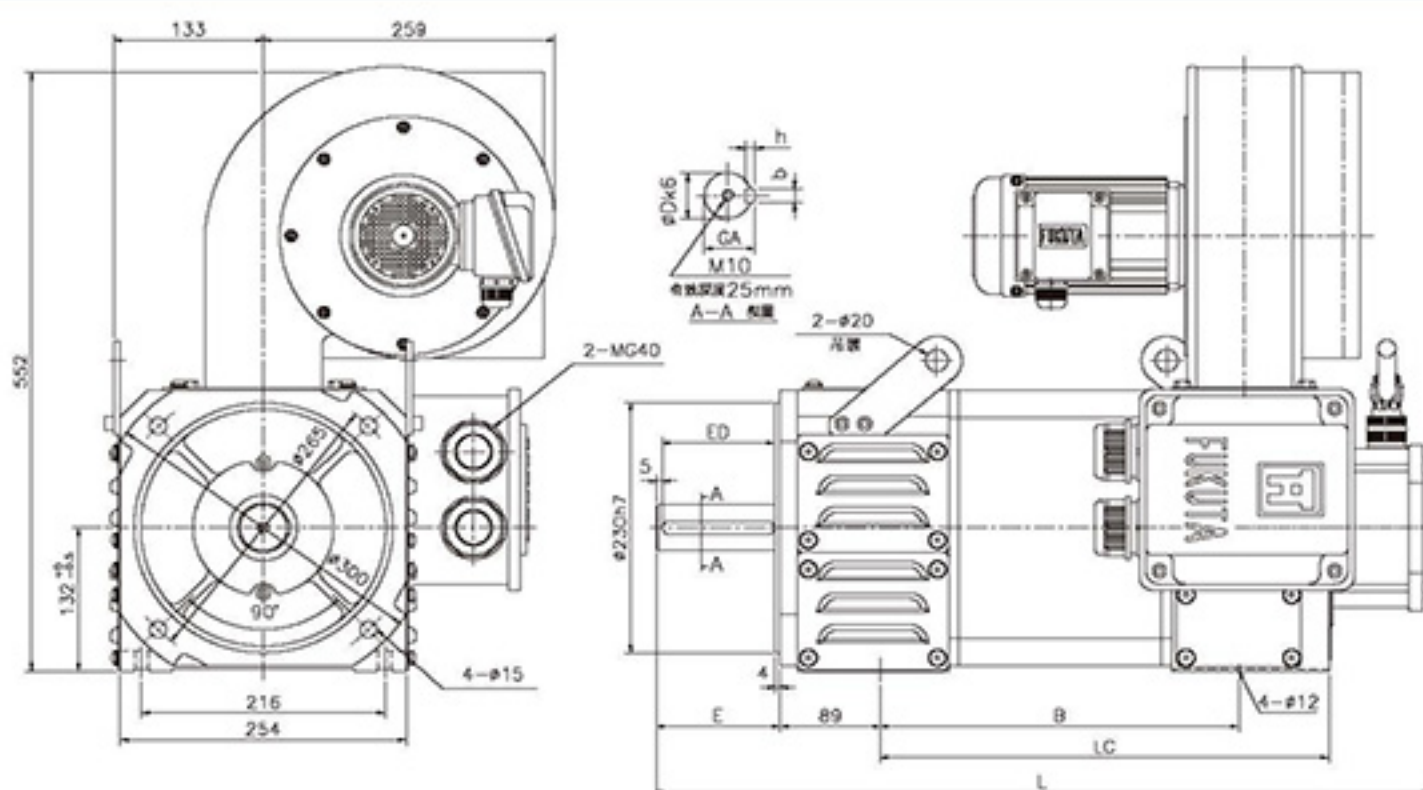
Torque Diagram / Power Diagram

Rated Output = 11kW
Rated Speed = 1500rpm

SA-132M

Torque Diagram / Power Diagram

Rated Output = 13.8kW
Rated Speed = 1500rpm



	B	D	E	ED	bxh	GA	LC	L
132S	319	38	80	70	8x10	41	658	399
132M	359	42	110	100	8x12	45	728	439
132L	429	42	110	100	8x12	45	798	509
132X	499	42	110	100	8x12	45	868	579

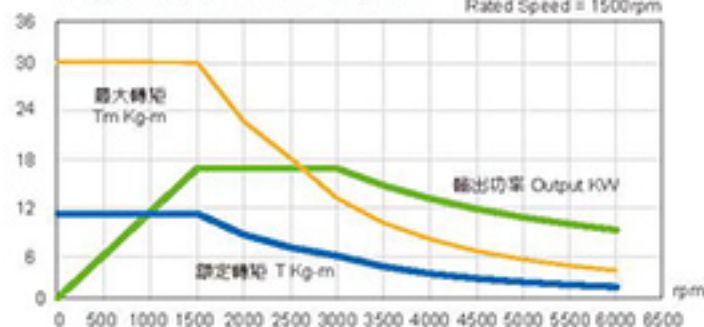
FUKUTA® 伺服馬達規格之選用

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-132S	3.7	500	20.19	7.21	15.2	13.1	8.8	7.6	18.0
	7.5	1000	20.46	7.31	28.6	24.8	16.5	14.3	34.7
	11	1500	20.01	7.15	41.2	36.4	23.8	20.6	51.3
	15	2000	20.46	7.31	55.3	47.8	31.9	27.6	68.1
SA-132M	4.6	500	25.10	8.97	18.9	16.3	10.9	9.4	18.1
	9.2	1000	25.10	8.97	34.9	30.1	20.1	17.4	34.8
	13.8	1500	25.10	8.97	51.0	44.0	29.4	25.4	51.6
	18.5	2000	25.24	9.01	67.8	58.8	39.1	34.0	68.1
SA-132L	5.5	500	30.01	10.72	22.0	18.9	12.7	10.9	17.9
	11	1000	30.01	10.72	41.3	35.8	23.9	20.7	34.6
	16.5	1500	30.01	10.72	60.8	52.8	35.1	30.5	51.3
	22	2000	30.01	10.72	81.4	71.1	47.0	41.1	67.9
SA-132X	7.5	500	40.93	14.62	29.9	25.8	17.2	14.9	18.0
	15	1000	40.93	14.62	52.6	48.4	32.5	28.0	34.7
	22	1500	40.02	14.29	80.2	67.9	46.3	40.2	51.3
	30	2000	40.93	14.62	110.5	94.1	63.8	54.3	68.0

SA-132L

Torque Diagram / Power Diagram

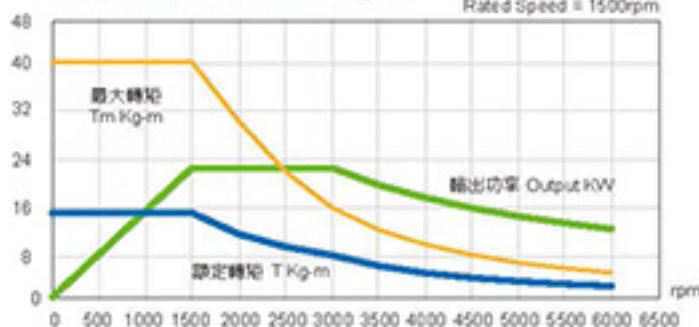
Rated Output = 16.5kW
Rated Speed = 1500rpm



SA-132X

Torque Diagram / Power Diagram

Rated Output = 22kW
Rated Speed = 1500rpm



MODEL

SA-160

FUKUTA SERVO MOTOR



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%
切因 Power Factor	0.843	0.85	0.878	0.845
R1(Ω) @25℃	0.07	0.053	0.043	0.029
極數 Poles	4	4	4	4
轉動慣量 Rotor Inertia(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 Bec. Fan	3ø 220/380 V 50/60 Hz 3.5 ± 1 A			
軸承 Bearings	LS:6313C3		OS:6312C3	

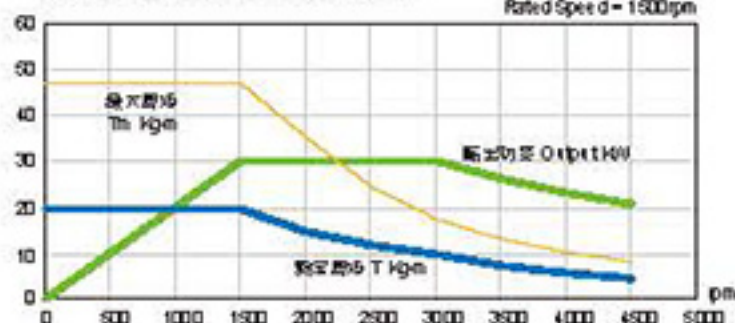
※編碼器之應用依需求為主

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
冷却系統 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
周圍溫度 Ambient Temp.	-15℃~40℃
高度 Altitude	海拔1000米 1000m ASL
溫度感測器 Temperature sensor	KTY-84

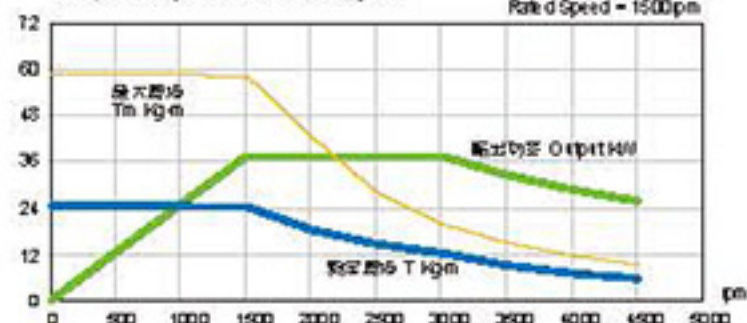
SA-160S

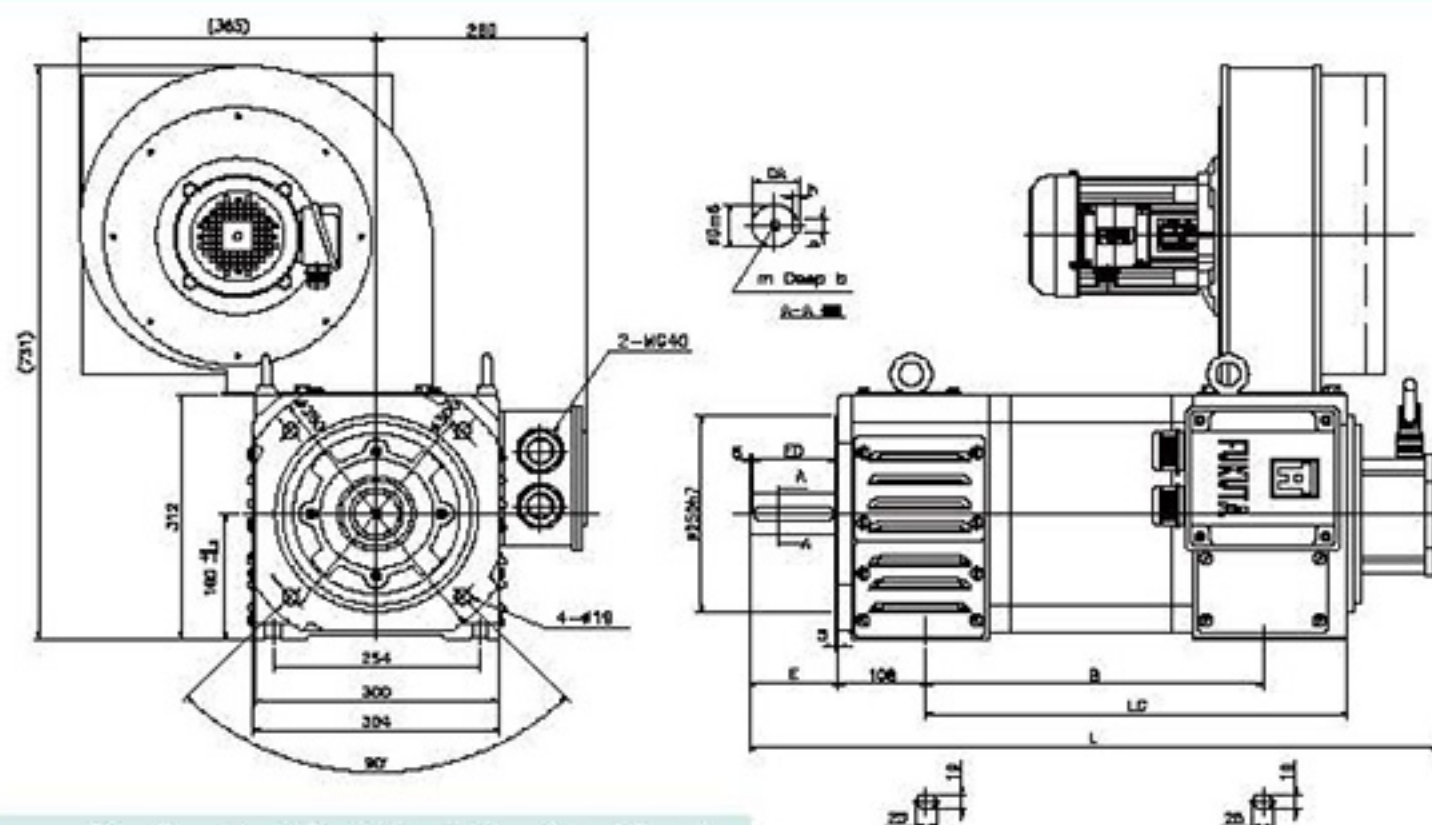
Torque Diagram / Power Diagram

Rated Output = 30kW
Rated Speed = 1500rpm

SA-160M

Torque Diagram / Power Diagram

Rated Output = 37kW
Rated Speed = 1500rpm



	B	D	E	ED	b x h	m x d	GA	LC	L
160S	414	55	110	100	16x10	M12x35	59	519	849
160M	464	60	140	130	18x11	M16x40	64	569	929
160L	514	60	140	130	18x11	M16x40	64	619	979
160X	594	60	140	130	18x11	M16x40	64	699	1059

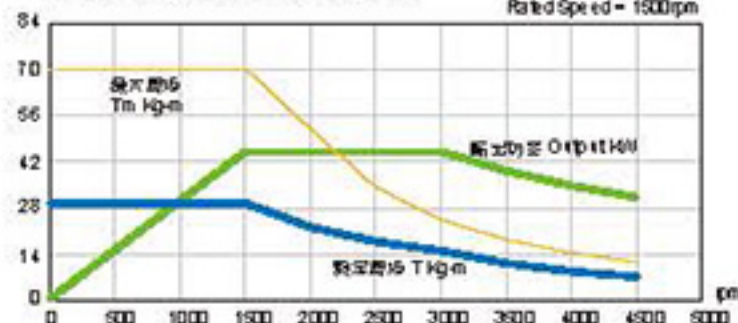
FUKUTA® 伺服馬達規格之選用

機號 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

SA-160L

Torque Diagram / Power Diagram

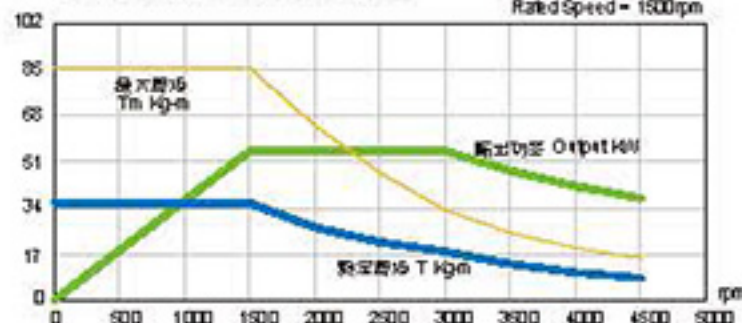
Rated Output = 45kW
Rated Speed = 1500rpm



SA-160X

Torque Diagram / Power Diagram

Rated Output = 65kW
Rated Speed = 1500rpm



MODEL

SA-180

FUKUTA SERVO MOTOR



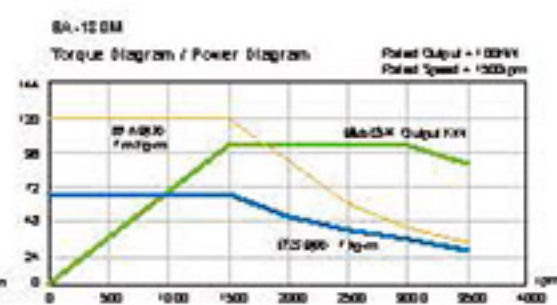
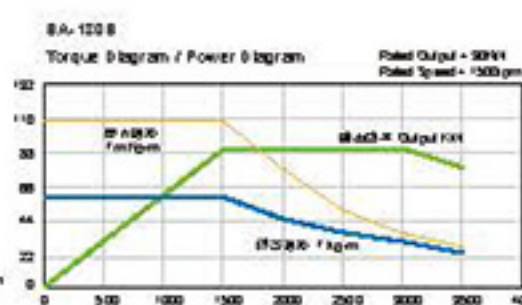
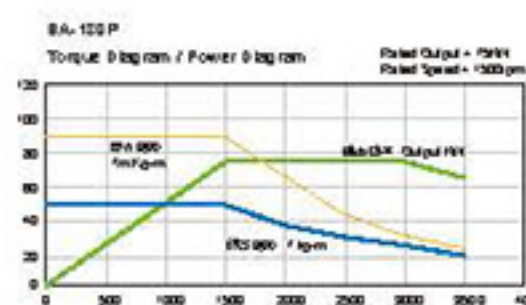
產品規格 Standard

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%
功率因數 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 Inertia(kg-cm ²)	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
冷却系統 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
周圍溫度 Ambient Temp.	-15°C~40°C
高度 Altitude	海拔1000米 1000m ASL
溫度感測器 Temperature sensor	KTY-84



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%
功率因數 Power Factor	0.845	0.860	0.876	0.876
R1(Ω) @25℃	0.0624	0.0480	0.0386	0.0313
極數 Poles	6	6	6	6
轉動慣量 Rotor Inertia(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			

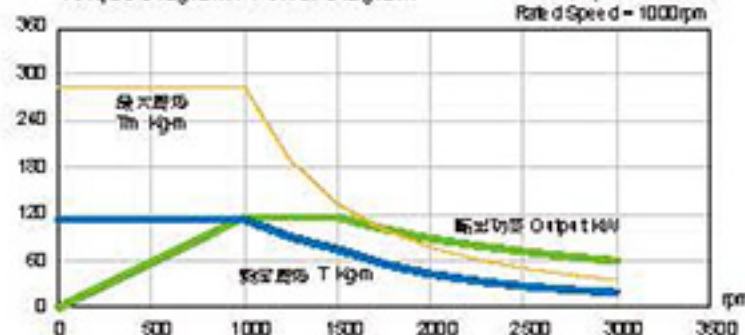
※搬運器之選用依需求為主

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	F級 (ISC2373)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
周圍溫度 Ambient Temp.	-15℃~40℃
高度 Altitude	海拔1000米 1000m ASL
溫度感測器 Temperature sensor	KTY-84

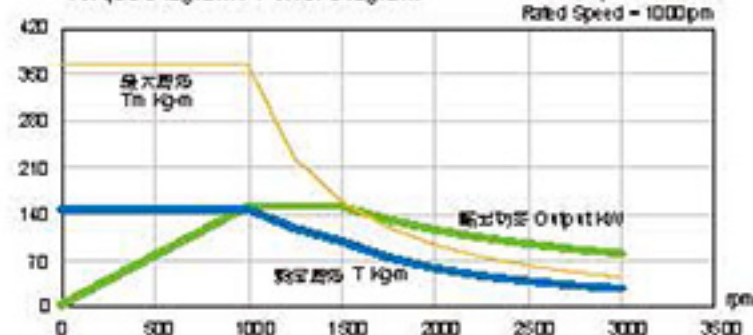
SA-225S

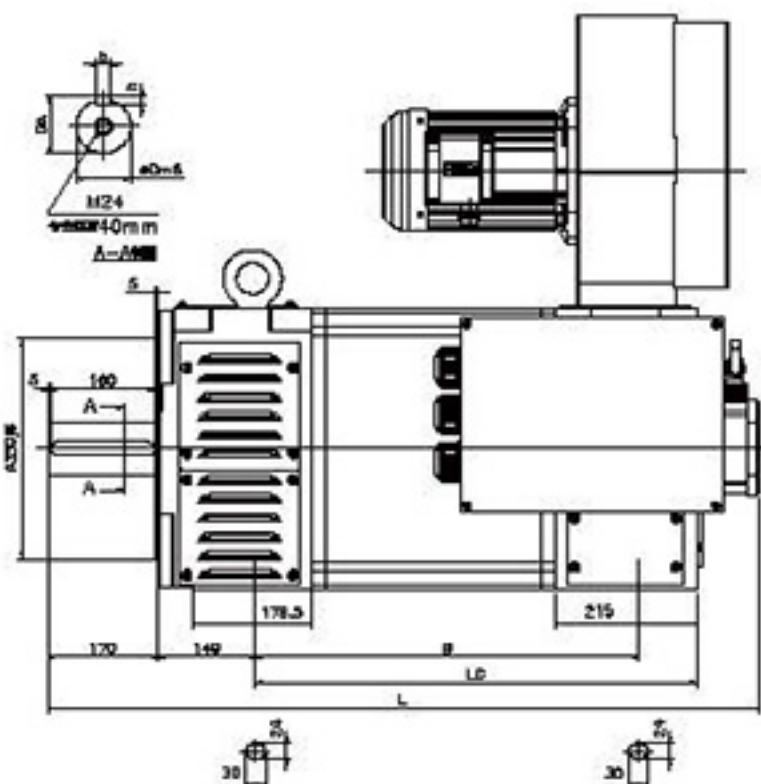
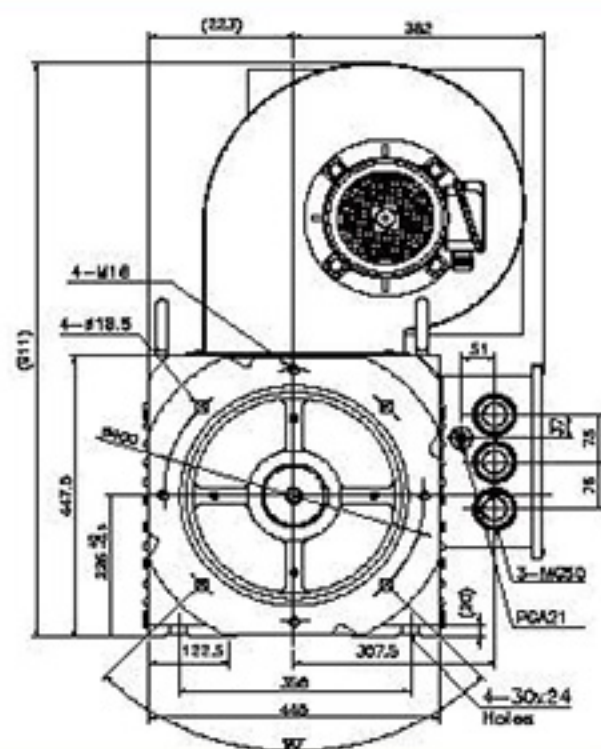
Torque Diagram / Power Diagram

Rated Output = 115kW
Rated Speed = 1000rpm

SA-225M

Torque Diagram / Power Diagram

Rated Output = 150kW
Rated Speed = 1000rpm



	B	D	b×h	GA	LC	L
225S	587	85	22×14	90	676	1090
225M	657	85	22×14	90	746	1160
225L	757	95	25×14	100	846	1260
225X	857	95	25×14	100	946	1360

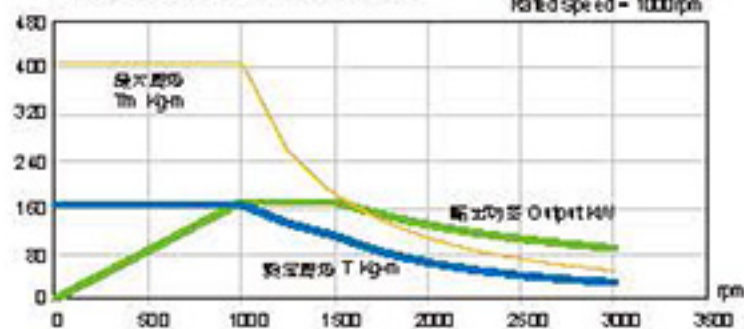
FUKUTA® 伺服馬達規格之選用

機號 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

SA-225L

Torque Diagram / Power Diagram

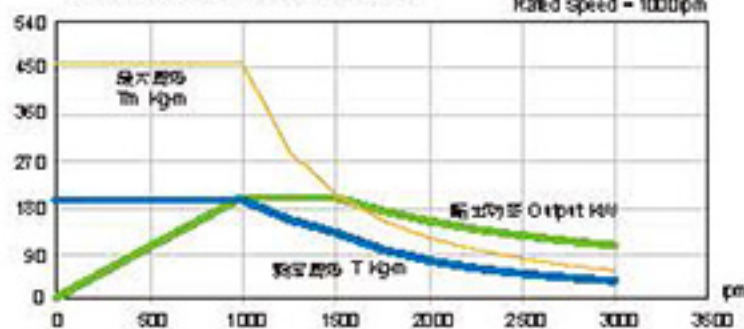
Rated Output = 168kW
Rated Speed = 1000rpm



SA-225X

Torque Diagram / Power Diagram

Rated Output = 200kW
Rated Speed = 1000rpm



MODEL

SA-280

FUKUTA SERVO MOTOR



產品規格 Standard

輸出 Output(kw)	265	305	360	390
機號 Frame No.	280S	280M	280L	280X
效率 Efficiency(%)	92.9	95.5	96.0	96.1
切因 Power Factor	0.855	0.853	0.854	0.869
R1(Ω) @25℃	0.019	0.017	0.012	0.011
極數 Poles	6	6	6	6
轉動慣量 Rotor Inertia(kg·cm²)	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 220-680V 50/60Hz 8/4.6A			
軸承 Bearings	LS6322C3 OS6322C3			

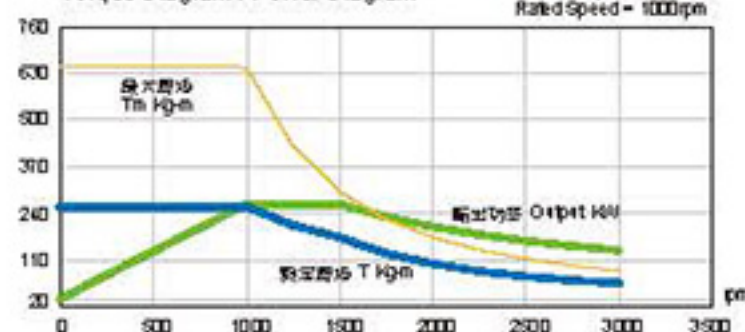
※編碼器之應用依需求為主

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
周圍 Ambient Temp.	-15℃~40℃
高度 Altitude	海拔1000米 1000m ASL
溫度感測器 Temperature sensor	KTY-84

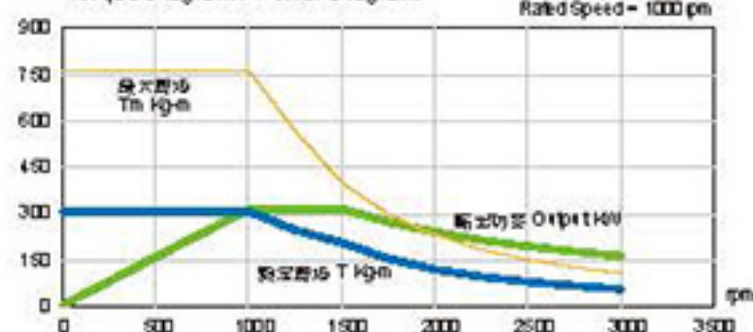
SA-280S

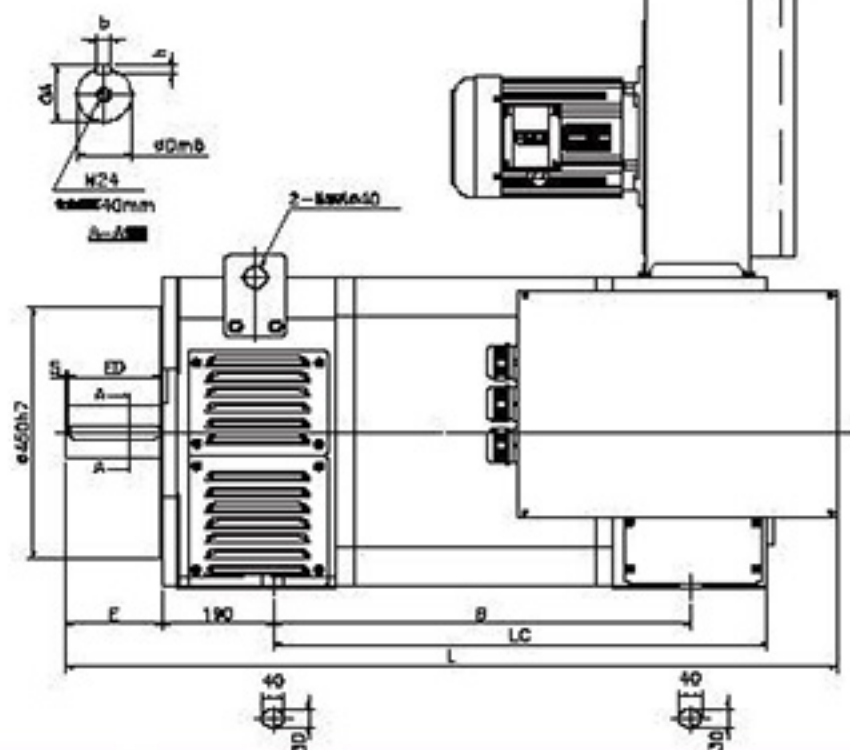
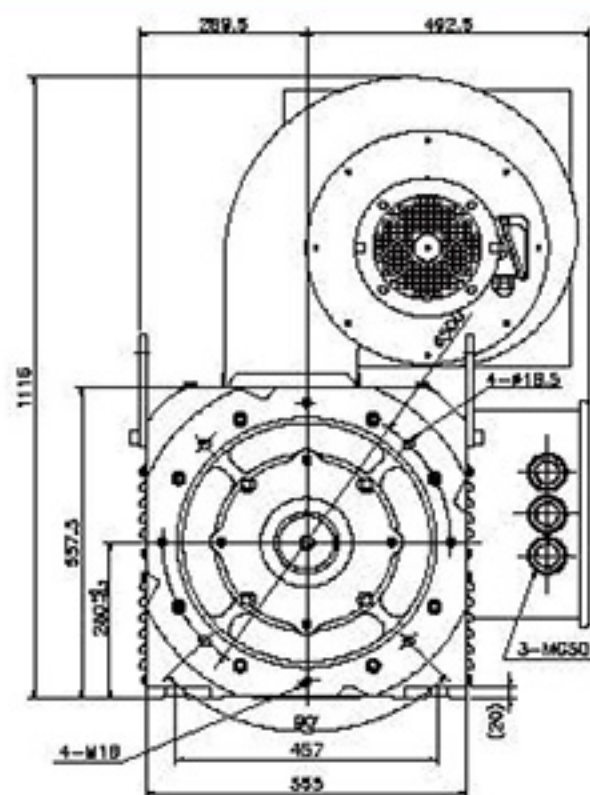
Torque Diagram / Power Diagram

Rated Output = 265kW
Rated Speed = 1000rpm

SA-280M

Torque Diagram / Power Diagram

Rated Output = 305kW
Rated Speed = 1000rpm



	B	D	E	ED	b×h	GA	LC	L		B	D	E	ED	b×h	GA	LC	L
280S	723	95	170	160	25×14	100	858	1340	280L	893	100	210	200	28×16	106	1028	1550
280M	803	95	170	160	25×14	100	938	1420	280X	953	100	210	200	28×16	106	1088	1610

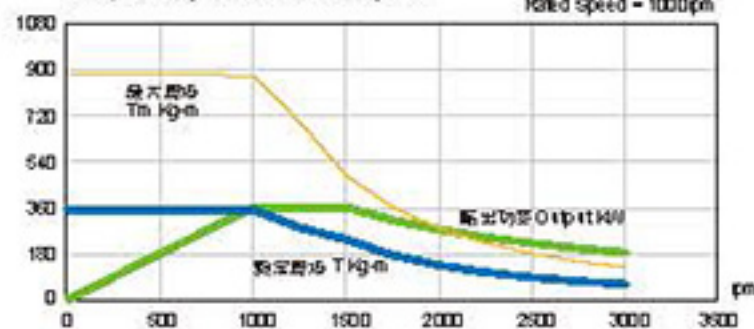
FUKUTA® 伺服馬達規格之選用

機號 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	50.5
	450	1500	730.85	292.34	833.1	75.5
	600	2000	730.85	292.34	1097.5	100.5
SA-280L	168	500	818.63	327.45	321.8	25.5
	360	1000	877.08	350.83	667.5	50.5
	510	1500	812.10	331.33	957.7	75.5
	650	2000	791.73	316.69	1155.7	100.5
SA-280X	190	500	925.75	370.3	339.6	25.5
	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

SA-280L

Torque Diagram / Power Diagram

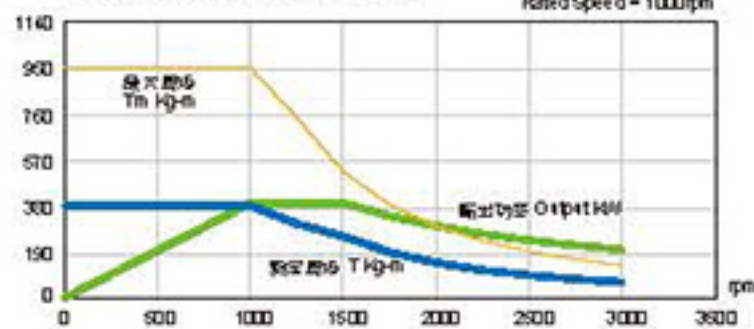
Rated Output=360kW
Rated Speed=1000rpm



SA-280X

Torque Diagram / Power Diagram

Rated Output=390kW
Rated Speed=1000rpm



MODEL

SA-355

FUKUTA SERVO MOTOR

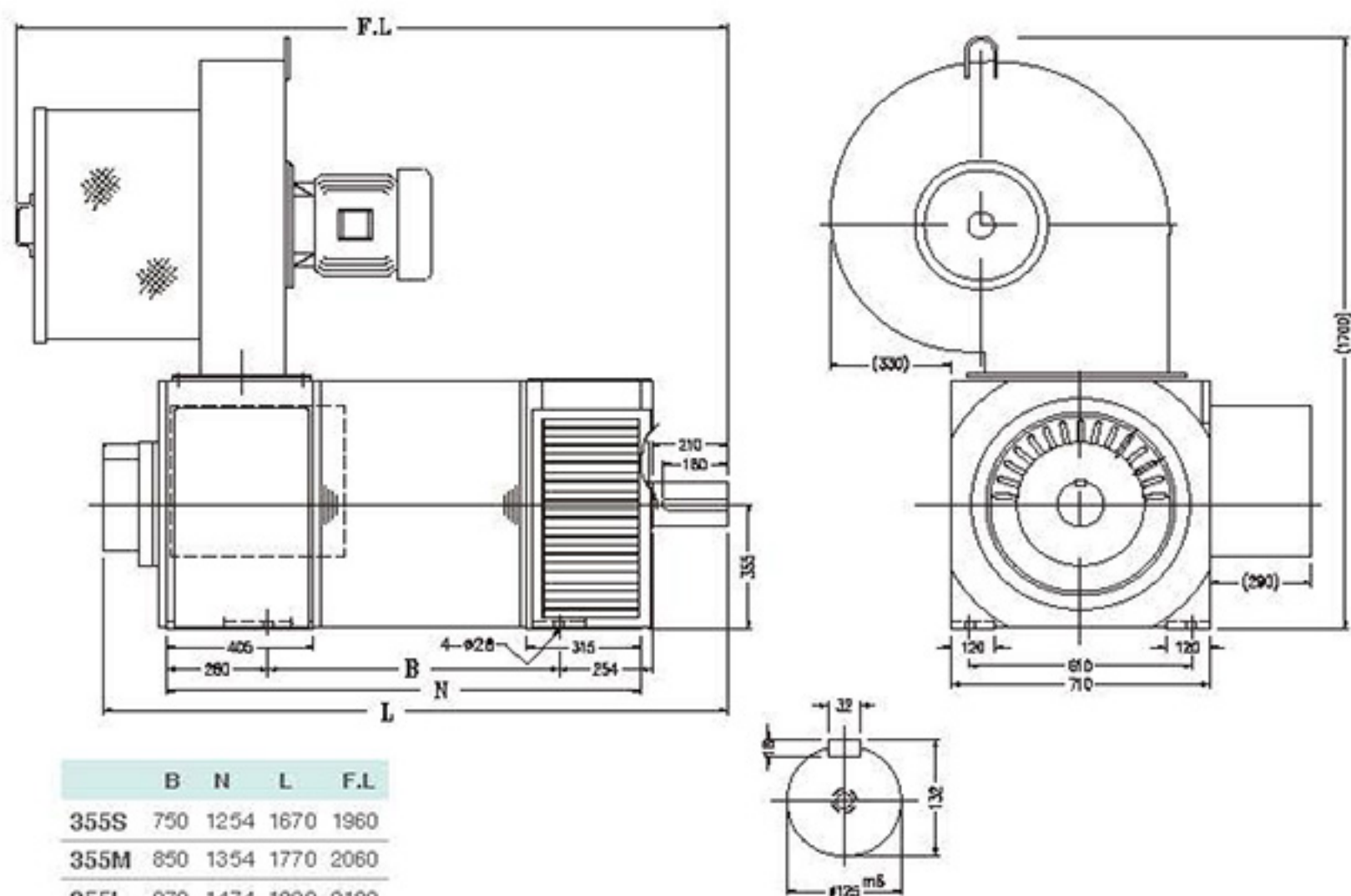


產品規格 Standard

輸出 Output(kw)	500	585	650
框號 Frame No.	355S	355M	355L
效率 Efficiency(%)	94.5	95.0	95.5
功率因數 Power Factor	0.85	0.85	0.85
R1(Ω) @25℃	0.0063	0.0048	0.0032
極數 Poles	6	6	6
轉動慣量 Rotor Inertia(kg·m²)	20.3	23.7	27.8
激磁電流 Magnetizing Current(A)	288	372	492
額定轉速 Rated Speed (rpm)	1000	1000	1000
最高轉速 Max. Speed (rpm)	3000	3000	3000
重量 Weight(kg)	2640	3000	3310
風扇 Bec. Fan	3ø220/80V	50/60HZ	25.9/15A
軸承 Bearings	LS.6326 C3	OS.6326 C3	

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	F級 Class F
冷却系統 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	90dBA
周圍溫度 Ambient Temp.	40℃
高度 Altitude	海拔1000米



	B	N	L	F.L
355S	750	1254	1670	1960
355M	850	1354	1770	2060
355L	970	1474	1890	2180

FUKUTA® 伺服馬達規格之選用

機號 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-355S	265	500	774.3	516.2	504	25
	500	1000	730.5	487	951	50
	720	1500	701.3	467.5	1355	75
	830	1800	673.7	449.1	1562	90
SA-355M	300	500	876.0	584	570	25
	585	1000	854.7	569.8	1112	50
	830	1500	808.4	538.9	1562	75
	950	1800	771.2	514.1	1778	90
SA-355L	350	500	1022.7	681.8	666	25
	650	1000	949.5	633	1236	50
	950	1500	925.2	616.8	1778	75
	1100	1800	892.8	595.2	2058	90

MODEL

SB-180

FUKUTA SERVO MOTOR

IP54 低慣量



產品規格 Standard

輸出 Output(kw)	55	65	75	90	110
機號 Frame No.	180P	180S	180M	180L	180X
效率 Efficiency(%)	94.8%	94.8%	95.0%	95.3%	95.3%
功率因數 Power Factor	0.883	0.878	0.887	0.904	0.895
R1(Ω) @25℃	0.116	0.097	0.079	0.061	0.048
極數 Poles	4	4	4	4	4
轉動慣量 Rotor Inertia(kg·cm²)	0.4006	0.4807	0.5528	0.6889	0.801
激磁電流 Magnetizing Current(A)	36.6	44.5	47.6	49.3	64.5
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)	328.0	370.0	408.0	480.0	544.0
編碼器 Encoder	1024PPR RS422 (Line-drive)/Push-Pull				
風扇 Elec. Fan	1ø 220V 80W 50/60Hz 5.6/3.2A				
軸承 Bearings	LS6316C3		OS6315C3		

※編碼器之選用依需求為主

一般條件 General Data

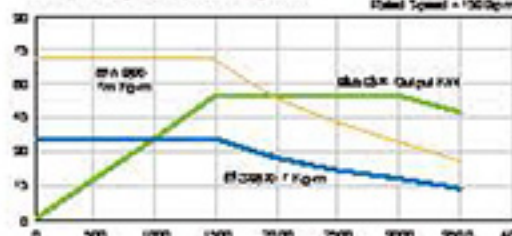
安裝方式 Mounting	IM 2001(B3/B5)
保護方式 Protection	IP54 低慣量
轉子平衡 Rotor Balancing	R級 (ISO2373) R Degree
絕緣等級 Insulation	H級 Class H
冷却系統 Cooling Sys.	強制通風 Forced Air Cooled
熱保護 Thermal Protection	熱保護器 (常閉) Thermal Protector (NC)
噪音 Noise	80dBA
周圍溫度 Ambient Temp.	-15℃~40℃
高度 Altitude	海拔1000米 1000m ASL
溫度感測器 Temperature sensor	KTY-84

SB-180P

Torque Diagram / Power Diagram

Rated Output = 55kW

Rated Speed = 1500rpm

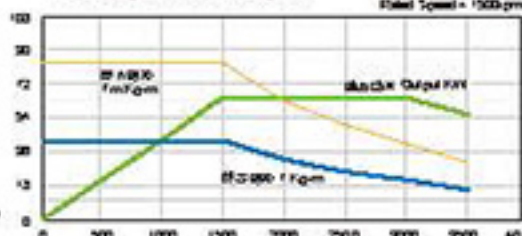


SB-180S

Torque Diagram / Power Diagram

Rated Output = 65kW

Rated Speed = 1500rpm

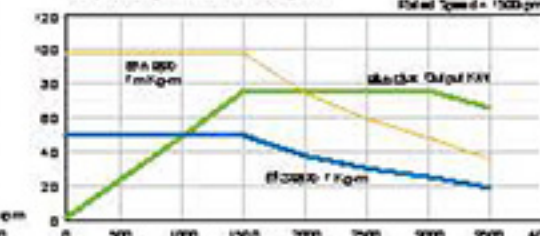


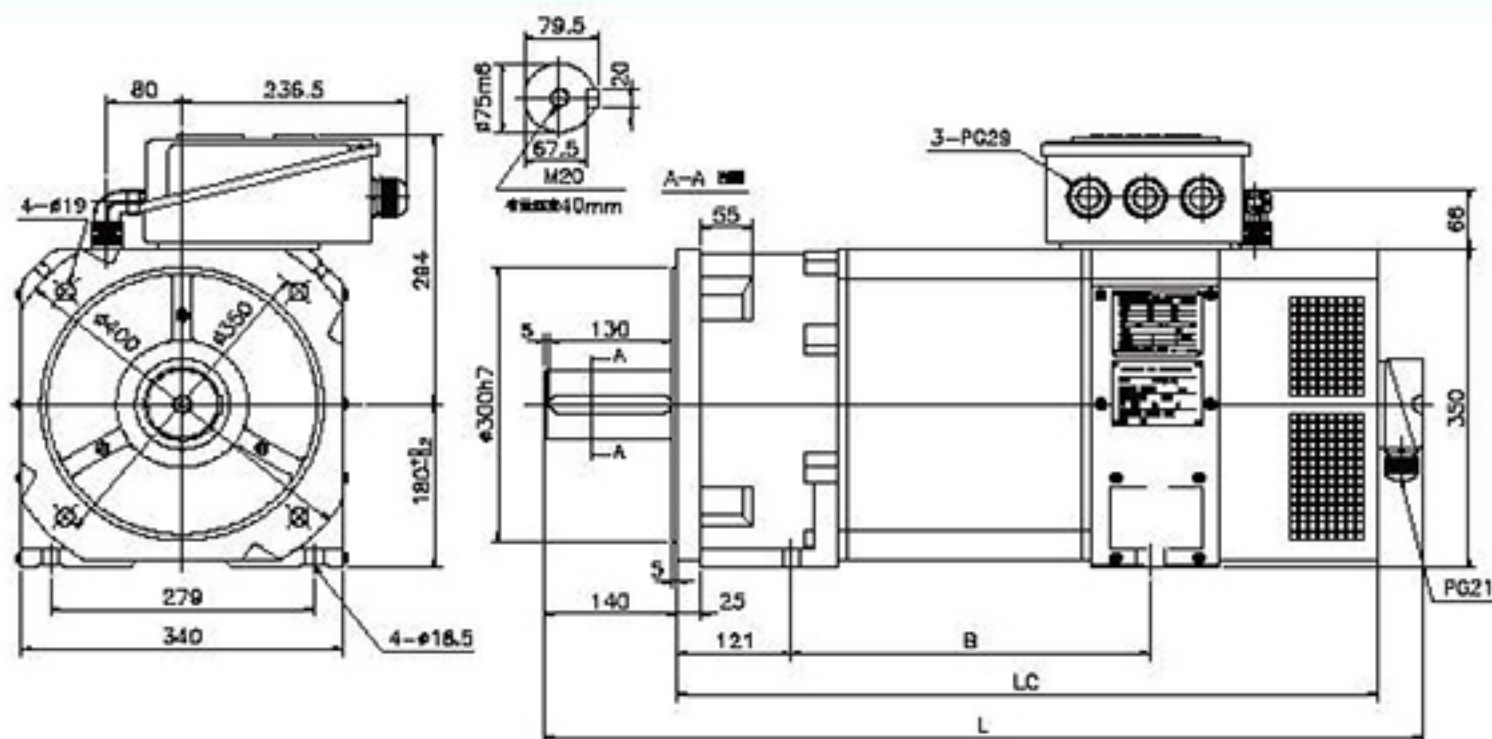
SB-180M

Torque Diagram / Power Diagram

Rated Output = 75kW

Rated Speed = 1500rpm





	B	LC	L		B	LC	L		B	LC	L
180P	380	741	930	180M	475	836	1025	180X	630	991	1180
180S	430	791	980	180L	560	921	1110				

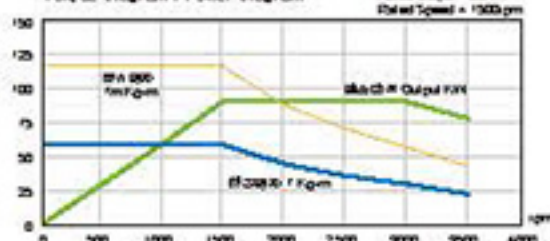
FUKUTA® 伺服馬達規格之選用

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
SB-180P	37	1000	72.12	36.06	80.2	69.7	34.0
	55	1500	71.47	35.73	114.9	99.8	50.7
	75	2000	73.08	36.54	150.6	130.8	67.4
	100	3000	64.96	32.48	196.5	170.6	100.8
SB-180S	45	1000	87.7	43.85	97.6	84.8	34.0
	65	1500	84.45	42.22	136.7	118.7	50.7
	88	2000	85.76	42.88	180.7	156.9	67.4
	114	3000	74.06	37.03	225.5	195.8	100.8
SB-180M	55	1000	107.18	53.59	120.7	104.8	34.0
	75	1500	97.44	48.72	155.6	135.1	50.7
	100	2000	97.44	48.72	203.2	176.5	67.5
	132	3000	85.74	42.87	259.6	225.4	100.7
SB-180L	60	1000	116.94	58.47	126.2	109.6	34.0
	90	1500	116.94	58.47	182.9	158.8	50.7
	122	2000	118.88	59.44	244.9	212.7	67.4
	160	3000	103.94	51.97	313.9	272.6	100.7
SB-180X	75	1000	146.16	73.08	161.7	140.4	34.0
	110	1500	142.92	71.46	225.4	195.7	50.7
	145	2000	141.3	70.65	287.2	249.4	67.4
	190	3000	123.42	61.71	372.1	323.1	100.7

SB-180P

Torque Diagram / Power Diagram

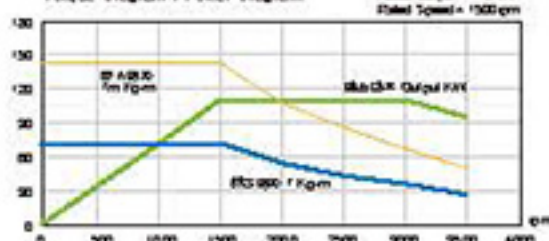
Rated Output = 37kW
Rated Speed = 1000rpm



SB-180X

Torque Diagram / Power Diagram

Rated Output = 110kW
Rated Speed = 1000rpm



MODEL

SL-180

FUKUTA SERVO MOTOR

IP23 低慣量



產品規格 Standard

輸出 Output(kw)	80	95	105	130	150
機號 Frame No.	180P	180S	180M	180L	180X
效率 Efficiency(%)	93.8%	93.7%	94.1%	94.4%	94.6%
功因 Power Factor	0.889	0.899	0.900	0.890	0.895
R1(Ω) @25°C	0.105	0.092	0.075	0.053	0.044
極數 Poles	4	4	4	4	4
轉動慣量 Rotor Inertia(kg·m²)	0.4006	0.4807	0.5528	0.6889	0.8010
激磁電流 Magnetizing Current(A)	46.0	48.3	53.4	72.7	79.6
額定轉速 Rated Speed	1500	1500	1500	1500	1500
最高轉速 Max. Speed (rpm)	3500	3500	3500	3500	3500
重量 Weight(kg)	328.0	370.0	408.0	480.0	544.0
編碼器 Encoder	1024PPR RS422(Line-drive) Push-Pull				
風扇 Elec. Fan	3ø 220V/90V 50/60Hz 5.6/3.2A				
軸承 Bearings	LS:6316 C3 OS:6315 C3				

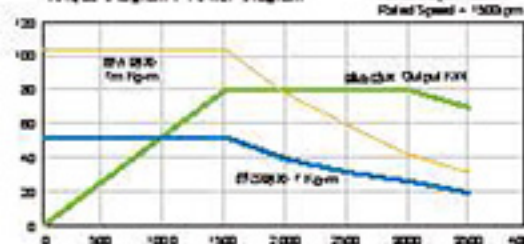
※搬運器之應用依需求為主

一般條件 General Data

安裝方式 Mounting	IM 2001(B3,B5)
保護方式 Protection	IP23 低慣量
轉子平衡 Rotor Balancing	R級 (ISO2373) R Degree
絕緣等級 Insulation	H級 Class H
冷却系統 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
周圍溫度 Ambient Temp.	-15°C~40°C
高度 Altitude	海拔1000米 1000m A SL
溫度感測器 Temperature sensor	KTY-84

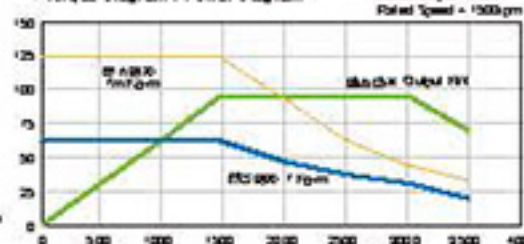
SL-180P

Torque Diagram / Power Diagram

Rated Output = 80kW
Rated Speed = 1500rpm

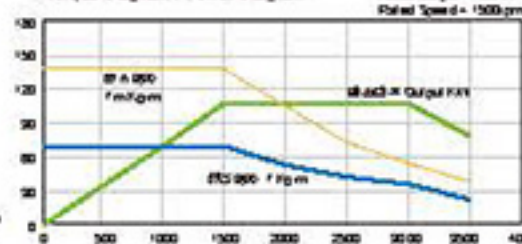
SL-180S

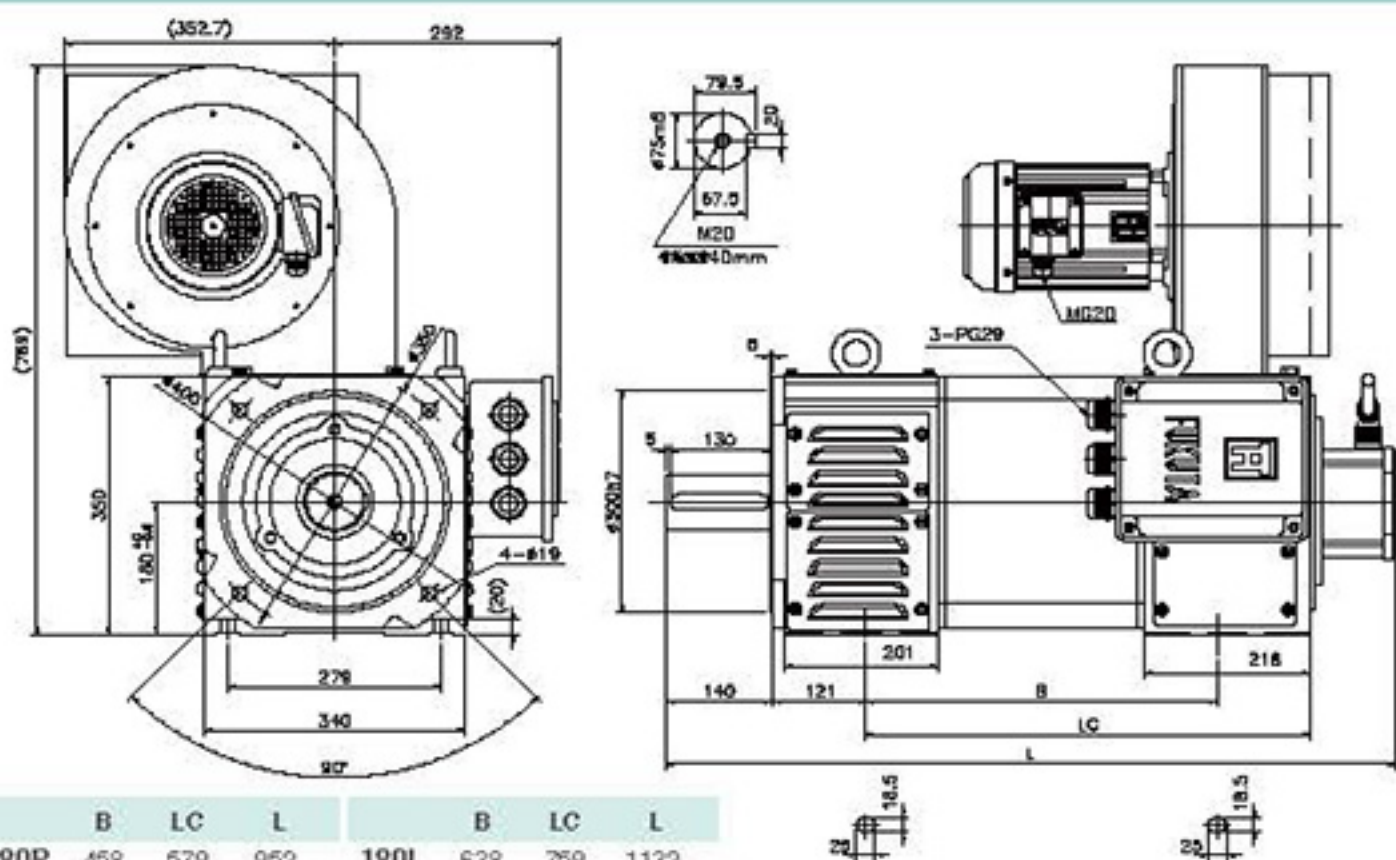
Torque Diagram / Power Diagram

Rated Output = 95kW
Rated Speed = 1500rpm

SL-180M

Torque Diagram / Power Diagram

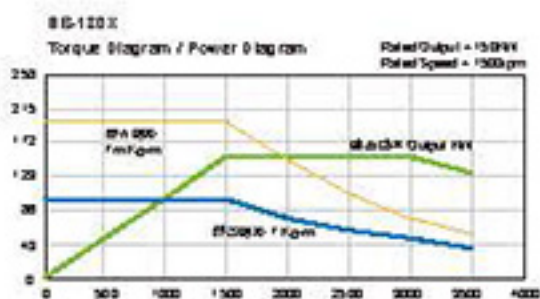
Rated Output = 105kW
Rated Speed = 1500rpm



	B	LC	L		B	LC	L
180P	458	579	952	180L	638	759	1132
180S	508	629	1002	180X	708	829	1202
180M	553	674	1047				

FUKUTA® 伺服馬達規格之選用

機號 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
SL-180P	30	500	116.94	58.47	68.4	59.4	17.6
	60	1000	116.94	58.47	135.9	118.0	34.2
	80	1500	103.94	51.97	177.3	154.0	50.9
	110	2000	107.18	53.59	237.6	206.3	67.6
SL-180S	37	500	144.22	72.11	82.4	71.6	17.6
	70	1000	136.42	68.21	154.1	133.8	34.0
	95	1500	123.44	61.72	197.4	171.4	50.7
	125	2000	121.8	60.9	256.1	222.4	67.4
SL-180M	40	500	155.92	77.96	89.5	77.7	17.5
	80	1000	155.92	77.96	175.0	152.0	34.0
	105	1500	136.42	68.21	216.9	188.4	50.7
	145	2000	141.3	70.65	295.0	256.2	67.5
SL-180L	50	500	194.88	97.44	110.2	95.7	17.5
	100	1000	194.88	97.44	214.4	186.2	34.0
	130	1500	168.9	84.45	270.5	234.9	50.7
	180	2000	175.4	87.7	363.0	315.2	67.4
SL-180X	55	500	214.38	107.19	119.8	104.0	17.5
	110	1000	214.38	107.19	233.6	202.9	34.2
	150	1500	194.88	97.44	309.9	269.1	50.7
	200	2000	194.88	97.44	399.5	346.9	67.4



MODEL

SL-225

FUKUTA SERVO MOTOR

IP23 低慣量



產品規格 Standard

輸出 Output(kW)	100	133	167	200
機號 Frame No.	225S	225M	225L	225X
效率 Efficiency(%)	93.6%	93.7%	93.9%	94.3%
功率因數 Power Factor	0.844	0.833	0.867	0.840
R1(Ω) @25℃	0.074	0.053	0.04	0.029
極數 Poles	4	4	4	4
轉動慣量 Rotor Inertia(kg·m²)	1.2806	1.5522	1.9403	2.3284
激磁電流 Magnetizing Current(A)	65	83	91	128
額定轉速 Rated Speed	1000	1000	1000	1000
最高轉速 Max. Speed (rpm)	3000	3000	3000	3000
重量 Weight(kg)	705.0	795.0	915.0	1040.0
編碼器 Encoder	1024PPR RS422(Line-drive)/Push-Pull			
風扇 Elec. Fan	3ø 220/380V 50/60Hz 8A/6A			
軸承 Bearings	LS:6320C3 OS:6316C3			

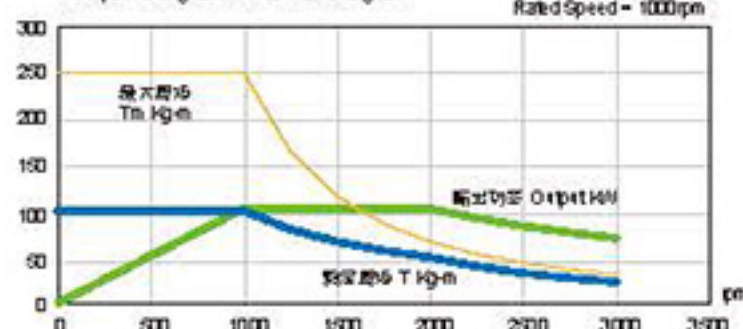
※編碼器之選用依需求為主

一般條件 General Data

安裝方式 Mounting	IM 2001(B3/B5)
保護方式 Protection	IP23 低慣量
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
周圍溫度 Ambient Temp.	-15°C~40°C
高度 Altitude	海拔1000米 1000m ASL
溫度感測器 Temperature sensor	KTY-84

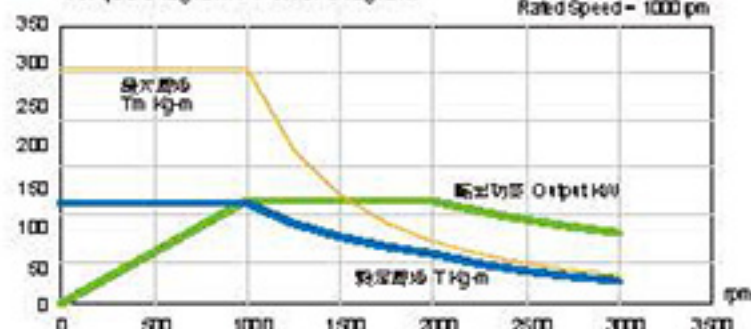
SL-225S

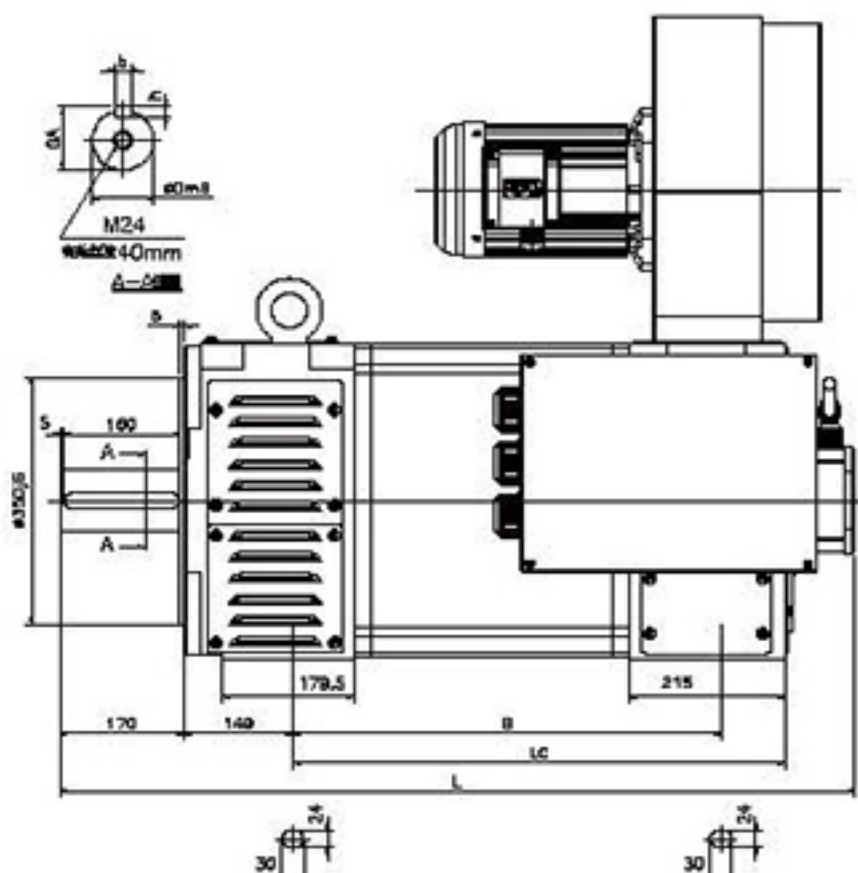
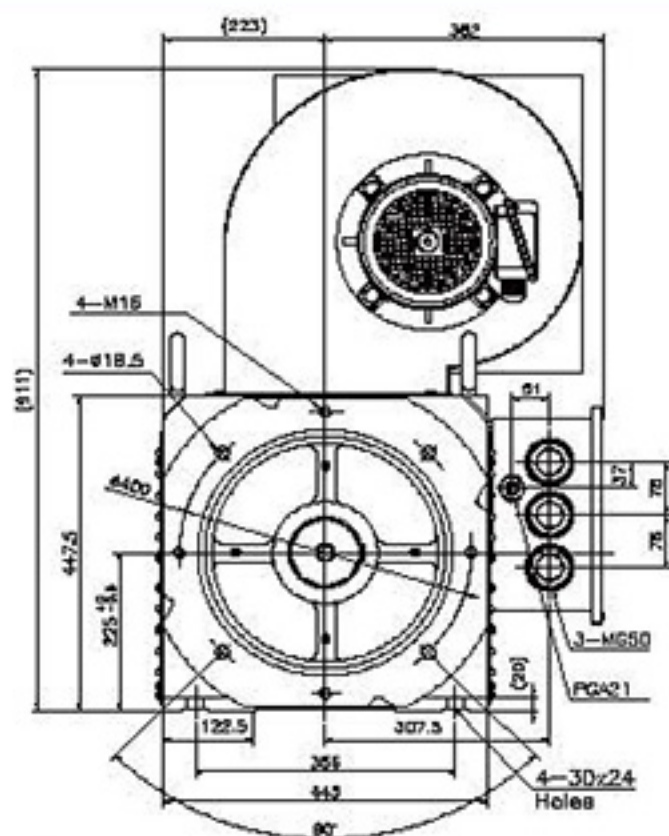
Torque Diagram / Power Diagram

Rated Output=100kW
Rated Speed=1000rpm

SL-225M

Torque Diagram / Power Diagram

Rated Output=133kW
Rated Speed=1000rpm



	B	D	b×h	GA	LC	L
225S	587	85	22×14	90	676	1090
225M	657	85	22×14	90	746	1160
225L	757	95	25×14	100	846	1260
225X	857	95	25×14	100	946	1360

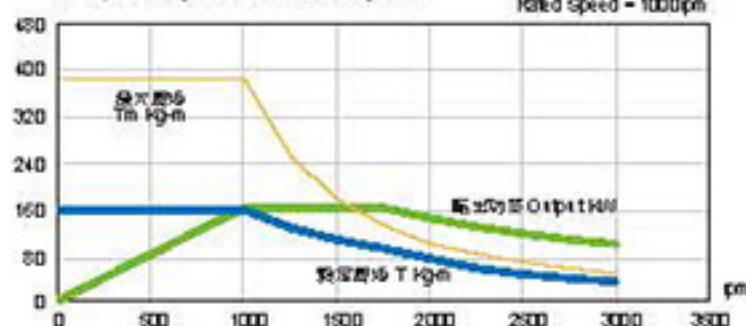
FUKUTA® 伺服馬達規格之選用

機號 Fr. No.	額定輸出 Rated Output kw	額定轉速 Rated Speed RPM	最大轉矩 Max. Torque kg-m	額定轉矩 Rated Torque kg-m	額定電流 Rated Current 380V	額定頻率 Rated Frequency Hz
SL-225S	50	500	223.95	97.55	98.7	17.3
	100	1000	243.06	97.54	188.5	34.5
	150	1500	258.18	97.44	273	50.6
	185	2000	251.20	90.18	341.6	67.3
SL-225M	67	500	278.00	130.72	130.9	17.4
	133	1000	304.06	129.77	242	34
	185	1500	321.93	120.20	353.3	50.6
	230	2000	307.53	112.08	424.1	67.3
SL-225L	84	500	349.57	163.75	162.4	17.4
	167	1000	370.17	162.78	308.6	34.3
	220	1500	374.28	142.91	402.1	50.6
	275	2000	402.04	134.00	524.3	67.2
SL-225X	100	500	430.05	195.00	193.4	17.3
	200	1000	466.78	195.06	376.6	34.6
	300	1500	489.76	194.90	566.5	50.6
	375	2000	502.37	182.71	718.8	67.3

SL-225L

Torque Diagram / Power Diagram

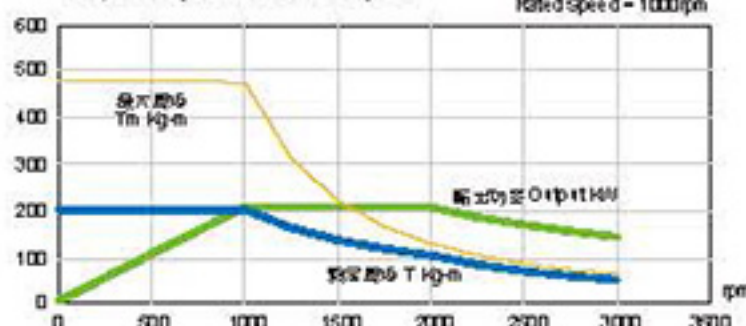
Rated Output = 167kW
Rated Speed = 1000rpm



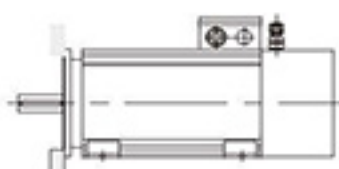
SL-225X

Torque Diagram / Power Diagram

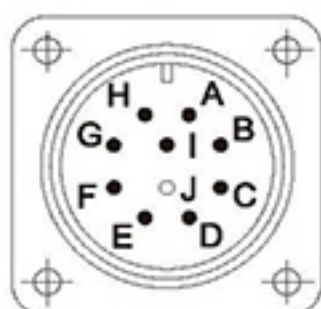
Rated Output = 200kW
Rated Speed = 1000rpm



安裝及位置 Mountings and Positions

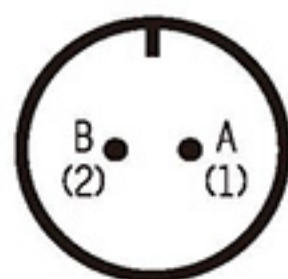
B3
IM 1001B5
IM 3001B3/B5
IM 2001

編碼器接頭 Encoder Connector



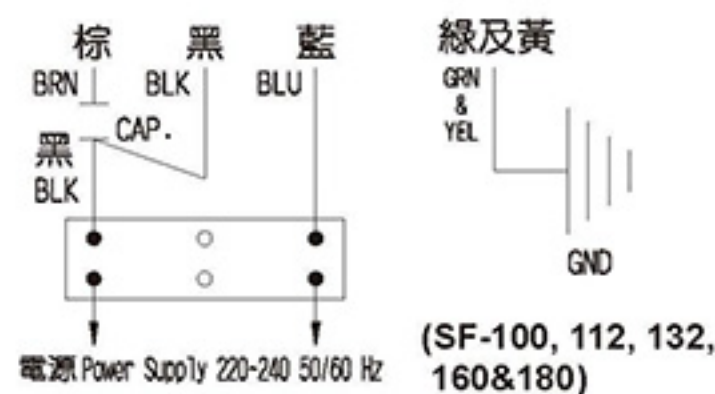
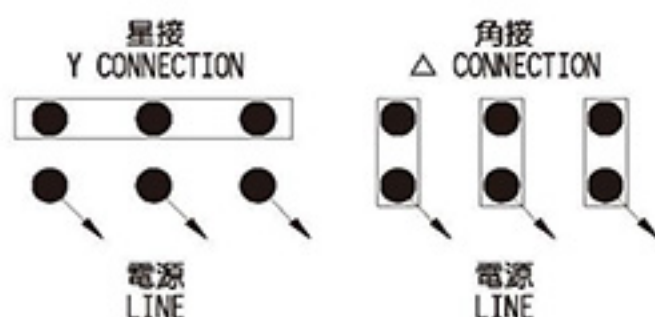
腳 Pin	功能 Func.
A	A
B	B
C	Z
D	A
E	B
F	Z
G	遮蔽 Shield
H	電源 Power
I	COM Common
J	—

風扇接頭 Fan Connector

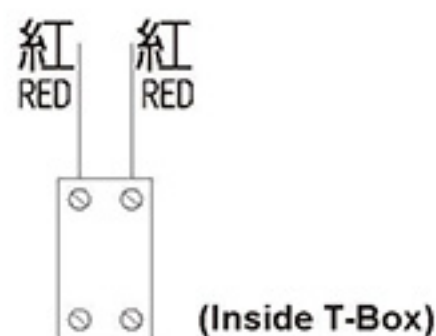


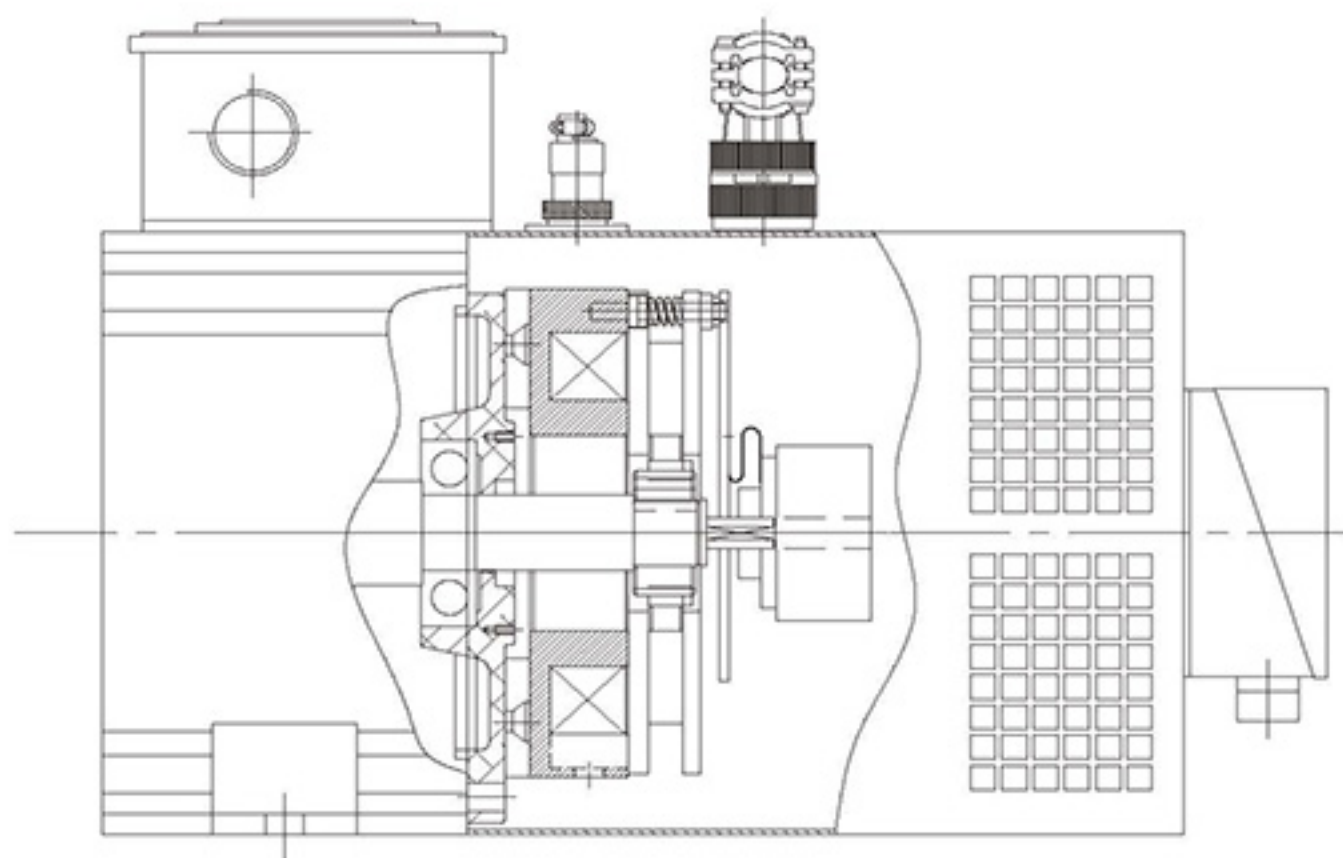
腳 Pin	功能 Func.
A(1)	1 ϕ 50/60 Hz 220V
B(2)	(SF-80, 90)

風扇端子台 Fan Terminal Board

主電源端子台 Terminal Board for Main Power
(Include SA series #132~280 Blower Terminal Board)

熱保護器 Thermal Protector





選用配件 Optional Accessory
伺服用煞車規格 Servo Brake for SF Series

Frame 框號	80	90	100	112	132	160
Brake Torque 煞車扭力 (KG-M)	1.5	2.0	2.5	5.0	11.5	22.3
Max Speed 最高轉速 (RPM)	5000	5000	5000	5000	3000	3000
Power Supply 電壓 (VDC)	90V	90V	90V	90V	90V(24V)	90V(24V)
Brake Inertia 剎車轉動慣量 (KG-M ²)	0.001	0.0015	0.003	0.006	0.045	0.065
Input Power 功率 (W)	33	40	45	50	62	76
Weight 重量 (KG)	2.5	2.7	3.8	6.2	12	18

◎ 此份型錄所載有關產品之細節，包含特性與規格尺寸為交付印刷廠時之正確數據無誤。
由於對產品持續研發之故，對於產品特性規格，本公司保留有隨時更改之權利。

All detail and specifications are correct at time of going to press. We reserve the right to make changes without notice in the course of continued development.

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