

單相感應調速馬達

Single-Phase Induction Speed Variable Motor



■ 單相感應調速馬達 Single-Phase Induction Speed Variable Motor

特徵：適用於單相馬達做速度調整控制。(50Hz: 90~14000rpm、60Hz: 90~1700rpm)

(注：三相馬達做速度控制時一般則用變頻器控制)

Feature: Applicable for speed adjustment for single-phase motor

(Note: The frequency converter is used for 3-phase motor, to control speed.)

■ 馬達一般規格 Motor General Specification

絕緣阻抗：在馬達的線圈與外殼間以 DC500V 高阻計測定，其數值在 100MΩ 以上。

絕緣耐壓：在馬達的線圈與外殼間施加 50Hz 或 60Hz、1.5KV、1 分鐘無發生異常現象。

溫度上升：於馬達額定運轉後以電阻法測定，溫度上升值在 80°C 以下。

絕緣等級：B 種 (130°C)

保護等級：導線型 IP20，端子盒型 IP54。

使用溫度：-10°C ~+50°C (電容連續運轉馬達 -10°C ~+40°C) (不結凍狀態)。

使用濕度：85% 以下 (不結露狀態)。

強制風扇 (選配)：電壓 AC(110V, 220V) 提供馬達低轉速時加強散熱。

Insulation impedance: Measure with DC500V high resistance gauge between the coil and casing of motor, the reading is 100M or higher.

Insulation resistance to pressure: Apply 50Hz or 60Hz, 1.5V between the coil and casing of motor for one minute without irregularity resulted.

Temperature rise: To specify by resistance method after motor reaches rated operation, temperature is less than 80°C.

Insulation: B (130°C)

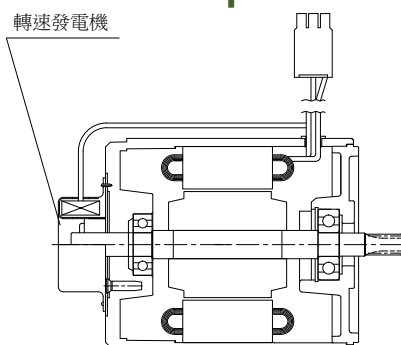
Protection: Motor with conductive wire is IP20; motor with terminal box is IP54.

Operating temperature: -10°C ~+50°C (Capacitor operation motor -10°C ~+40°C) (No freezing)

Operating humidity: 85% or less (No condensation)

Electronic Fan (Optional): Voltage AC (110V, 220V) helps to dissipate heat at low motor speeds.

■ 感應調速馬達機構 Induction Speed Variable Motor Machinery



單相感應調速馬達 Single Phase Induction Speed Variable Motor

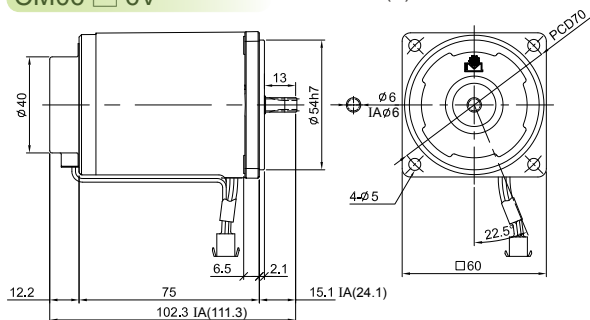
單相感應調速馬達

60 mm
6W

馬達線圖 Motor

CM06 □ 6V

註：IA (*) 為 IA 型相關尺寸

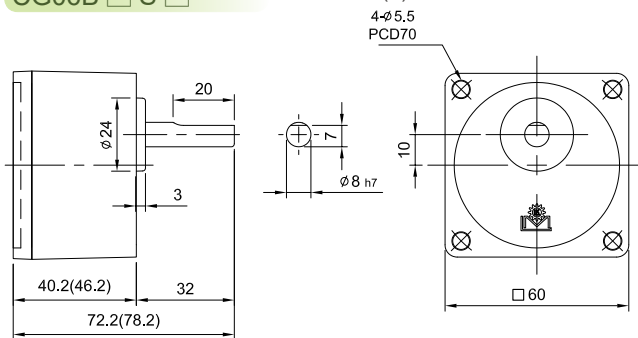


重量 Weight : 1kg ±5%

減速機線圖 Gear Head

CG06B □ S □

註：(*) 為 1/90~1/300 之尺寸



直接連結減速馬達時之容許轉矩 Permissible Torque of Direct Link Gearmotor

輸出功率 Output Power	馬達型號 Motor Model	減速機型號 Reducer Model	減速比 Ratio	轉速 Speed (RPM)		容許 Permissible (kgf·cm)		低速 Low Speed	減速機出力軸旋轉方向 Rotating direction of output shaft of speed reducer
				50Hz	60Hz	50Hz	60Hz		
6W	CM06IG06	CG06 □	3	500	600	1.2	1.0	30	(A) 與馬達同一方向旋轉 Rotating in the same direction as the motor
			5	300	360	1.9	1.5	18	
			6	250	300	2.3	1.8	15	
			7.5	200	240	2.9	2.3	12	
			9	166	200	3.4	2.8	10	
			12.5	120	144	4.7	3.9	7.2	
			15	100	120	5.7	4.7	6	
			18	83	100	6.8	5.6	5	(B) 與馬達相反方向旋轉 Rotating in the opposite direction to the motor
			25	60	72	9.3	7.0	3.6	
			30	50	60	11	8.3	3	
			36	42	50	13	10	2.5	
			50	30	36	16	13.8	1.8	
			60	25	30	20	16	1.5	
			75	20	24	24	20	1.2	(C) 與馬達同一方向旋轉 Rotating in the same direction as the motor
			90	17	20	30	24	1	
			100	15	18	30	30	0.9	
			120	12.5	15	30	30	0.75	
			150	10	12	30	30	0.6	
			180	8.3	10	30	30	0.5	
			200	7.5	9	30	30	-	
			240	6.25	7.5	30	30	-	
			300	5	6	30	30	-	

6W 調速馬達規格表

框號尺寸 SIZE (mm)	極數 Poles (P)	輸出功率 Output (W)	規格 Type	電壓 Voltage (V)	頻率 Frequency (Hz)	負荷 Duty (min)	額定 Rated Load				電容器 Capacitor (μf/V)	啟動電流 Starting Current (A)	啟動轉矩 Starting Torque (kgf·cm)
							輸入功率 Input (W)	電流 Current (A)	轉速 Speed (RPM/min)	轉矩 Torque (kgf·cm)			
60	4	6	CM06IG6SAV CM06IA9SAV	100	50	CONT.	29	0.3	90	0.41	2.5 / 250	0.3	0.3
				100	60	CONT.	20	0.22	1300	0.42			
				110	50	CONT.	28	0.3	90	0.4	2.5 / 250	0.29	0.33
				110	60	CONT.	18	0.19	1600	0.4			
			CM06IG6SBV CM06IA6SBV	220	50	CONT.	35	0.32	90	0.46	2.5 / 250	0.32	0.4
				220	60	CONT.	24	0.24	1300	0.49			
				220	50	CONT.	34	0.32	90	0.47	2.5 / 250	0.32	0.4
				220	60	CONT.	22	0.21	1600	0.47			
				230	50	CONT.	29	0.13	90	0.77	0.8 / 450	0.13	0.69
				230	60	CONT.	21	0.1	1300	0.49			
				240	50	CONT.	31	0.14	90	0.76	0.8 / 450	0.14	0.72
				240	60	CONT.	25	0.11	1600	0.43			
				230	50	CONT.	31	0.11	90	0.84	0.8 / 450	0.14	0.76
				230	60	CONT.	23	0.1	1300	0.53			
				240	50	CONT.	34	0.15	90	0.85	0.8 / 450	0.15	0.84
				240	60	CONT.	28	0.12	1600	0.45			
				240	50	CONT.	34	0.14	90	0.9	0.8 / 450	0.14	0.83
				240	60	CONT.	25	0.1	1300	0.57			
				240	60	CONT.	37	0.15	90	0.93	0.8 / 450	0.15	0.85
				240	60	CONT.	34	0.12	1600	0.49			

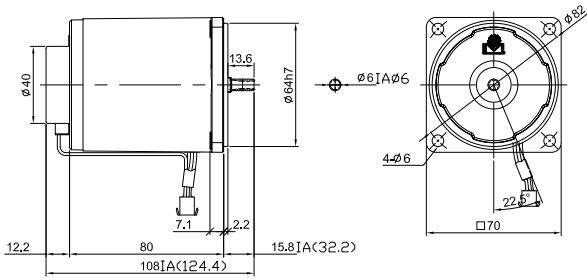
如馬達特性變更，恕不另行通知，以馬達銘牌為準。

In case of change of motor characteristics, no further notice shall be given. The information shown on the nameplate of motor is taken as standard.

馬達線圖 Motor

CM07 □ 15V

註：IA (*) 為 IA 型相關尺寸

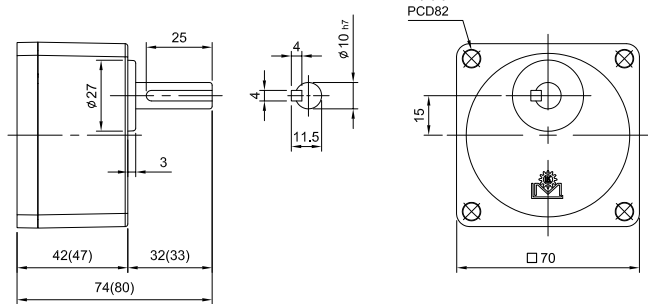


重量 Weight : 1.4kg ±5%

減速機線圖 Gear Head

CG07B □ S □

註：(*) 為 1/90~1/240 之尺寸



直接連結減速馬達時之容許轉矩 Permissible Torque of Direct Link Gearmotor

輸出功率 Output Power	馬達型號 Motor Model	減速機型號 Reducer Model	減速比 Ratio	轉速 Speed (RPM)		容許 Permissible (kgf-cm)		低速 Low Speed	減速機出力軸旋轉方向 Rotating direction of output shaft of speed reducer
				50Hz	60Hz	50Hz	60Hz		
15W	CM07IG15	CG07 □	3	500	600	3.0	2.6	30	(A) 與馬達同一方向旋轉 Rotating in the same direction as the motor
			5	300	360	4.7	3.9	18	
			6	250	300	5.7	4.7	15	
			7.5	200	240	7.1	5.8	12	
			9	166	200	8.5	7.0	10	
			12.5	120	144	11.8	9.8	7.2	
			15	100	120	14.2	11.8	6	
			18	83	100	18	15	5	(B) 與馬達相反方向旋轉 Rotating in the opposite direction to the motor
			25	60	72	23	19	3.6	
			30	50	60	28	23	3	
			36	42	50	33	27.6	2.5	
			50	30	36	46	38.4	1.8	
			60	25	30	50	46	1.5	
			75	20	24	50	50	1.2	(C) 與馬達同一方向旋轉 Rotating in the same direction as the motor
			90	17	20	50	50	1	
			100	15	18	50	50	0.9	
			120	12.5	15	50	50	0.75	
			150	10	12	50	50	0.6	
			180	8.3	10	50	50	0.5	
			200	7.5	9	50	-	-	
			240	6.25	7.5	50	-	-	
			300	5	6	-	-	-	

15W 調速馬達規格表

框號尺寸 SIZE (mm)	極數 Poles (P)	輸出功率 Output (W)	規格 Type	電壓 Voltage (V)	頻率 Frequency (Hz)	負荷 Duty (min)	額定 Rated Load				電容器 Capacitor (μf / V)	啟動電流 Starting Current (A)	啟動轉矩 Starting Torque (kgf-cm)
							輸入功率 Input (W)	電流 Current (A)	轉速 Speed (RPM/min)	轉矩 Torque (kgf-cm)			
70	4	15	CM07IG15SAV CM07IA15SAV	100	50	CONT.	55	0.59	90	0.93	5 / 250	0.59	0.93
							34	0.37	1250	1.1			
				100	60	CONT.	52	0.55	90	0.89	5 / 250	0.55	0.89
							31	0.31	1600	0.91			
				110	50	CONT.	68	0.66	90	0.11	5 / 250	0.66	1.1
							39	0.4	1300	1.1			
				110	60	CONT.	64	0.61	90	1.1	5 / 250	0.61	1.1
							37	0.34	1600	1			
			CM07IG15SBV CM07IA15SBV	220	50	CONT.	74	0.37	90	0.9	1 / 450	0.36	0.89
							45	0.24	1250	1.1			
				220	60	CONT.	68	0.33	90	0.9	1 / 450	0.33	0.87
							36	0.18	1600	1			
				230	50	CONT.	81	0.38	90	1	1 / 450	0.38	0.95
							48	0.26	1300	1			
				230	60	CONT.	75	0.35	90	1	1 / 450	0.35	0.95
							39	0.19	1600	1			
				240	50	CONT.	89	0.4	90	1	1 / 450	0.4	1
							52	0.27	1300	1			
				240	60	CONT.	82	0.37	90	1	1 / 450	0.37	1
							43	0.21	1600	1			

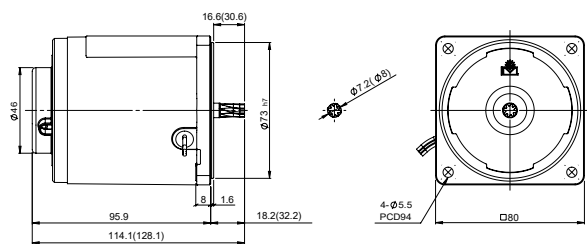
如馬達特性變更，恕不另行通知，以馬達銘牌為準。

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馬達線圖 Motor

CM08 □ 25V

註：IA (*) 為 IA 型相關尺寸

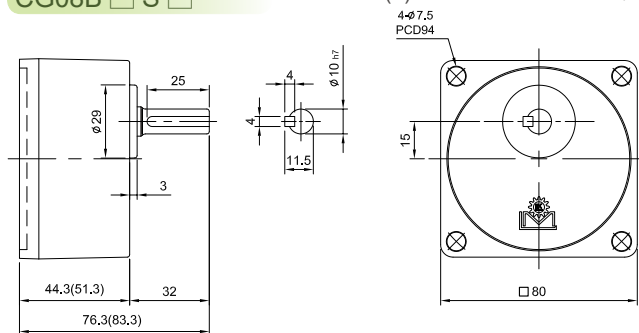


重量 Weight : 1.5kg ±5%

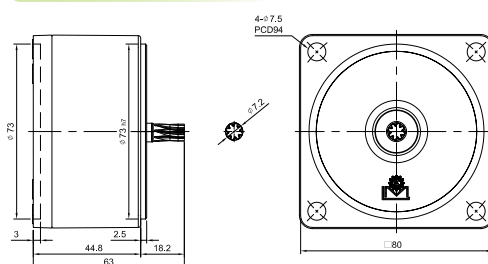
減速機線圖 Gear Head

CG08B □ S □

註：(*) 為 1/90~1/300 之尺寸



CG08B □ X



直接連結減速馬達時之容許轉矩 Permissible Torque of Direct Link Gearmotor

輸出功率 Output Power	馬達型號 Motor Model	減速機型號 Reducer Model	減速比 Ratio	轉速 Speed (RPM)		容許 Permissible (kgf·cm)		低速 Low Speed	減速機出力軸旋轉方向 Rotating direction of output shaft of speed reducer
				50Hz	60Hz	50Hz	60Hz		
25W	CM08IG25	CG08 □	3	500	600	5.0	4.1	30	(A) 與馬達同一方向旋轉 Rotating in the same direction as the motor
			5	300	360	7.8	6.3	18	
			6	250	300	9.4	7.6	15	
			7.5	200	240	11.8	9.5	12	
			9	166	200	14.1	11.4	10	
			12.5	120	144	19.6	16	7.2	
			15	100	120	23	19	6	
			18	83	100	28	23	5	
			25	60	72	38	31	3.6	(B) 與馬達相反方向旋轉 Rotating in the opposite direction to the motor
			30	50	60	46	37	3	
			36	42	50	55	45	2.5	
			50	30	36	76	62	1.8	
			60	25	30	80	75	1.5	
			75	20	24	80	80	1.2	
			90	17	20	80	80	1	
			100	15	18	80	80	0.9	
			120	12.5	15	80	80	0.75	(C) 與馬達同一方向旋轉 Rotating in the same direction as the motor
			150	10	12	80	80	0.6	
			180	8.3	10	80	80	0.5	
			200	7.5	9	80	80	-	
			240	6.25	7.5	80	80	-	
			300	5	6	80	80	-	

25W 調速馬達規格表

框號尺寸 SIZE (mm)	極數 Poles (P)	輸出功率 Output (W)	規格 Type	電壓 Voltage (V)	頻率 Frequency (Hz)	負荷 Duty (min)	額定 Rated Load				電容器 Capacitor (μf / V)	啟動電流 Starting Current (A)	啟動轉矩 Starting Torque (kgf·cm)
							輸入功率 Input (W)	電流 Current (A)	轉速 Speed (RPM/min)	轉矩 Torque (kgf·cm)			
80	4	25	CM08IG25SAV CM08IA25SAV	100	50	CONT.	99	0.89	90	1.4	6 / 250	0.89	1.1
							46	0.5	1250	1.9			
				100	60	CONT.	99	0.84	90	1.3	6 / 250	0.84	1.1
							41	0.42	1550	1.5			
				110	50	CONT.	104	1	90	1.6	6 / 250	1	1.4
							49	0.5	1300	1.9			
				110	60	CONT.	99	0.9	90	1.6	6 / 250	0.9	1.5
							43	0.4	1640	1.4			
				120	50	CONT.	125	1	90	1.9	6 / 250	1	1.7
							55	0.5	1350	1.8			
				120	60	CONT.	119	1	90	1.9	6 / 250	1	1.6
							49	0.42	1650	1.4			
			CM08IG25SBV CM08IA25SBV	220	50	CONT.	100	0.46	90	1.6	1.5 / 450	0.46	1.5
							50	0.25	1300	1.8			
				220	60	CONT.	97	0.46	90	1.5	1.5 / 450	0.46	1.4
							45	0.21	1600	1.5			
				230	50	CONT.	100	0.46	90	1.6	1.5 / 450	0.46	1.5
							53	0.26	1300	1.9			
				230	60	CONT.	96	0.43	90	1.7	1.5 / 450	0.43	1.6
							47	0.21	1600	1.5			
				240	50	CONT.	109	0.48	90	2	1.5 / 450	0.48	1.6
							26	0.26	1300	1.8			
				240	60	CONT.	105	0.45	90	1.9	1.5 / 450	0.46	1.6
							49	0.21	1600	1.5			

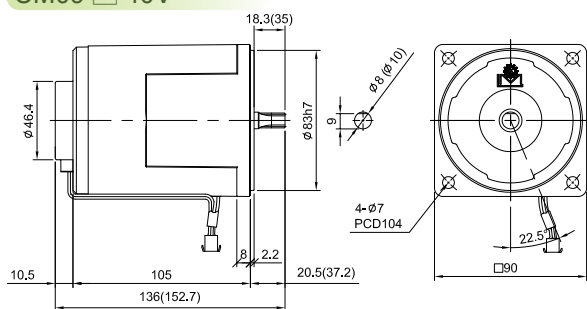
如馬達特性變更，恕不另行通知，以馬達銘牌為準。

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馬達線圖 Motor

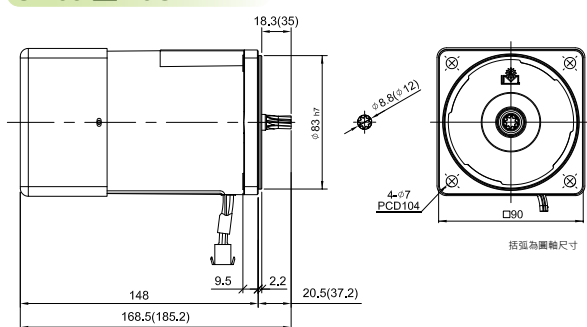
CM09 □ 40V

註：IA (*) 為 IA 型相關尺寸



重量 Weight : 2.3kg $\pm 5\%$

CM09 □ 40CFV

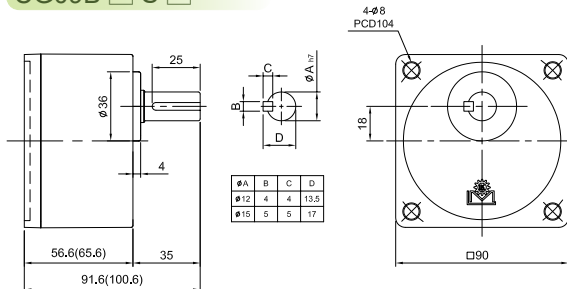


重量 Weight : 2.8kg $\pm 5\%$

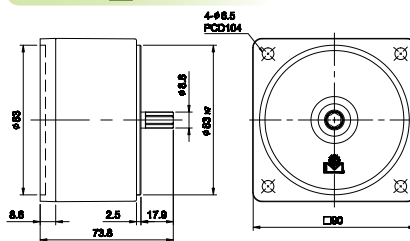
減速機線圖 Gear Head

CG09B □ S □

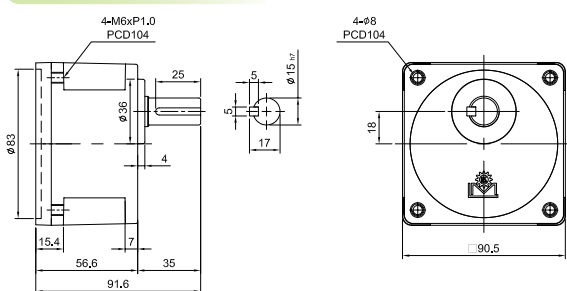
註：(*) 為 1/90~1/240 之尺寸



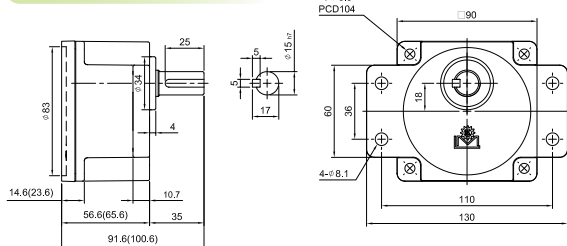
CG09B □ X



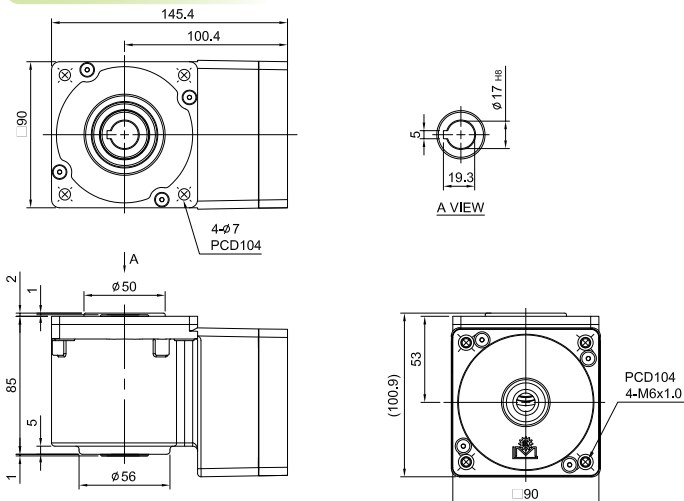
CGCU09B □ S □



CGU09B □ S □



CGB09B □ H □



■ 直接連結減速馬達時之容許轉矩 Permissible Torque of Direct Link Gearmotor

輸出功率 Output Power	馬達型號 Motor Model	減速機型號 Reducer Model	減速比 Ratio	轉速 Speed (RPM)		容許 Permissible (kgf·cm)		低速 Low Speed	減速機出力軸旋轉方向 Rotating direction of output shaft of speed reducer
				50Hz	60Hz	50Hz	60Hz		
40W	CM09IG40	CG09 □	3	500	600	7.3	6.3	30	(A) 與馬達同一方向旋轉 Rotating in the same direction as the motor
			5	300	360	12	10	18	
			6	250	300	14.7	12	15	
			7.5	200	240	18	15	12	
			9	166	200	22	19	10	
			12.5	120	144	30	26	7.2	
			15	100	120	36	30	6	
			18	83	100	43	37	5	(B) 與馬達相反方向旋轉 Rotating in the opposite direction to the motor
			25	60	72	54	45	3.6	
			30	50	60	65	54	3	
			36	42	50	77	65	2.5	
			50	30	36	100	90	1.8	
			60	25	30	100	100	1.5	
			75	20	24	100	100	1.2	(C) 與馬達同一方向旋轉 Rotating in the same direction as the motor
			90	17	20	100	100	1	
			100	15	18	100	100	0.9	
			120	12.5	15	100	100	0.75	
			150	10	12	100	100	0.6	
			180	8.3	10	100	100	0.5	
			200	7.5	9	100	100	-	
			240	6.25	7.5	100	100	-	

■ 直接連結減速馬達時之容許轉矩 (中空軸) Permissible Torque of Direct Link Gearmotor (Hollow Output Shaft)

輸出功率 Output Power	馬達型號 Motor Model	減速機型號 Reducer Model	減速比 Ratio / 頻率 (Hz)		9	15	18	22.5	27	37.5	45	54	75	90	108	150	180	225		
40W	CM09IG40	CGB09 ☐	50Hz	轉速 RPM	166	100	83	66	55	40	33	27	20	16	13	10	8.3	6.6		
				容許 Nm	2.4	4.1	4.9	6.1	7.4	10.3	12.3	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	
			60Hz	轉速 RPM	200	120	100	80	66	48	40	33	24	20	16	12	10	8		
				容許 Nm	2.3	3.8	4.6	5.8	6.9	9.7	11.6	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
減速機出力軸旋轉方向 Rotating direction of output shaft of speed reducer					(A) 與馬達相反方向旋轉 Rotating in the opposite direction to the motor									(B) 與馬達同一方向旋轉 Rotating in the same direction as the motor						

■ 40W 調速馬達規格表

框號尺寸 SIZE (mm)	極數 Poles (P)	輸出功率 Output (W)	規格 Type	電壓 Voltage (V)	頻率 Frequency (Hz)	負荷 Duty (min)	額定 Rated Load				電容器 Capacitor (μf/V)	啟動電流 Starting Current (A)	啟動轉矩 Starting Torque (kgf·cm)
							輸入功率 Input (W)	電流 Current (A)	轉速 Speed (RPM/min)	轉矩 Torque (kgf·cm)			
90	4	40	CM09IG40SAV CM09IA40SAV	100	50	CONT.	168	1.8	90	2.1	10 / 250	1.9	1.8
							77	0.83	1350	3.2			
				100	60	CONT.	100	1.6	90	2	10 / 250	1.7	1.8
							99	0.65	1650	2.3			
				110	50	CONT.	204	1.97	90	2.7	10 / 250	2	2.1
							87	0.88	1350	3.4			
				110	60	CONT.	190	1.83	90	2.5	10 / 250	1.84	2.3
							86	0.79	1650	3.2			
			CM09IG40SBV CM09IA40SBV	220	50	CONT.	124	0.58	90	2.7	2.5 / 450	0.58	2.6
							72	0.32	1300	3			
				220	60	CONT.	120	0.55	90	2.6	2.5 / 450	0.55	2.6
							78	0.37	1600	2.5			
				230	50	CONT.	73	0.32	90	3	2.5 / 450	0.6	2.6
							74	0.32	1300	3			
				230	60	CONT.	132	0.58	90	2.8	2.5 / 450	0.58	2.8
							82	0.38	1600	2.5			
				240	50	CONT.	146	0.62	90	3	2.5 / 450	0.63	2.8
							72	0.3	1350	2.9			
				240	60	CONT.	143	0.6	90	3	2.5 / 450	0.6	2.8
							83	0.37	1650	2.3			

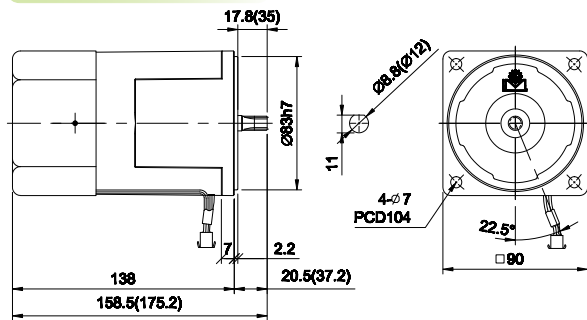
如馬達特性變更，恕不另行通知，以馬達銘牌為準。

In case of change of motor characteristics, no further notice shall be given. The information shown on the nameplate of motor is taken as standard.

馬達線圖 Motor

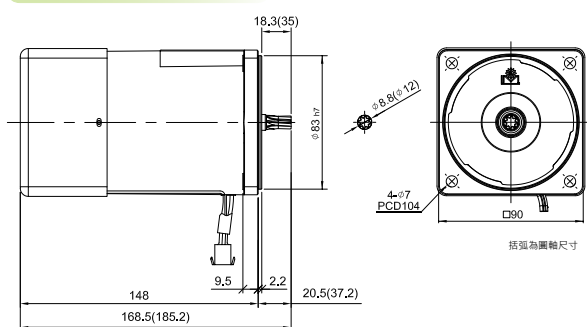
CM09 □ 60FV

註：IA (*) 為 IA 型相關尺寸



重量 Weight : 2.5kg ±5%

CM09 □ 60CFV

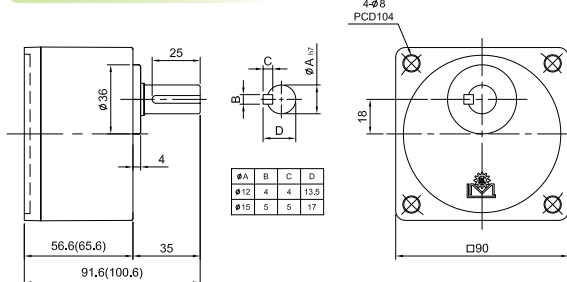


重量 Weight : 2.8kg ±5%

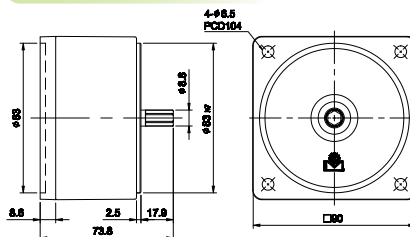
減速機線圖 Gear Head

CG09B □ S □

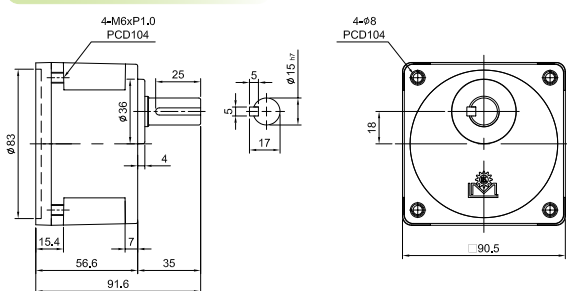
註：(*) 為 1/90~1/240 之尺寸



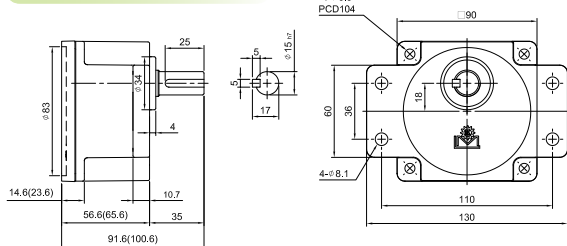
CG09B □ X



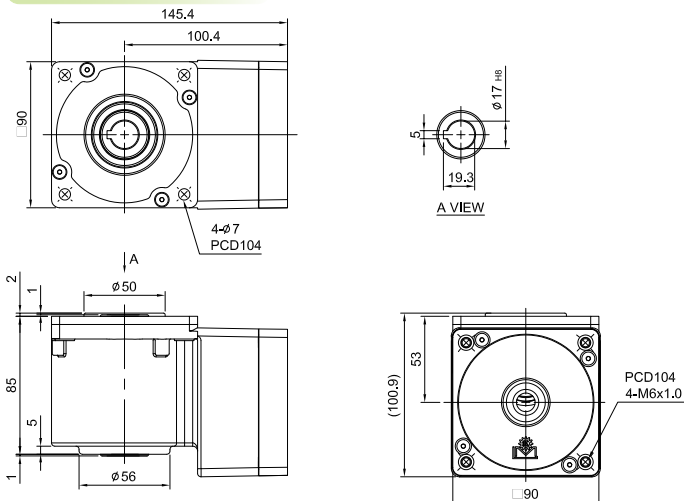
CGCU09B □ S □



CGU09B □ S □



CGB09B □ H □



■ 直接連結減速馬達時之容許轉矩 Permissible Torque of Direct Link Gearmotor

輸出功率 Output Power	馬達型號 Motor Model	減速機型號 Reducer Model	減速比 Ratio	轉速 Speed (RPM)		容許 Permissible (kgf·cm)		低速 Low Speed	減速機出力軸旋轉方向 Rotating direction of output shaft of speed reducer
				50Hz	60Hz	50Hz	60Hz		
60W	CM09IG60	CG09 □	3	500	600	12	9.8	30	(A) 與馬達同一方向旋轉 Rotating in the same direction as the motor
			5	300	360	19	16	18	
			6	250	300	22	19	15	
			7.5	200	240	28	24	12	
			9	166	200	34	28	10	
			12.5	120	144	48	40	7.2	
			15	100	120	55	47	6	
			18	83	100	62	55	5	(B) 與馬達相反方向旋轉 Rotating in the opposite direction to the motor
			25	60	72	82	69	3.6	
			30	50	60	98	83	3	
			36	42	50	118	100	2.5	
			50	30	36	164	138	1.8	
			60	25	30	196	160	1.5	
			75	20	24	200	175	1.2	
			90	17	20	200	200	1	(C) 與馬達同一方向旋轉 Rotating in the same direction as the motor
			100	15	18	200	200	0.9	
			120	12.5	15	200	200	0.75	
			150	10	12	200	200	0.6	
			180	8.3	10	200	200	0.5	
			200	7.5	9	200	200	-	
			240	6.25	7.5	200	200	-	

■ 直接連結減速馬達時之容許轉矩 (中空軸) Permissible Torque of Direct Link Gearmotor (Hollow Output Shaft)

輸出功率 Output Power	馬達型號 Motor Model	減速機型號 Reducer Model	減速比 Ratio / 頻率 (Hz)		9	15	18	22.5	27	37.5	45	54	75	90	108	150	180	225		
60W	CM09IG60	CGB09	50Hz	轉速 RPM	166	100	83	66	55	40	33	27	20	16	13	10	8.3	6.6		
				容許 Nm	3.3	5.5	6.7	8.3	10	13.9	16.7	20	20	20	20	20	20	20	20	20
			60Hz	轉速 RPM	200	120	100	80	66	48	40	33	24	20	16	12	10	8		
				容許 Nm	2.6	4.4	5.3	6.7	8	11.2	13.4	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
減速機出力軸旋轉方向 Rotating direction of output shaft of speed reducer					(A) 與馬達相反方向旋轉 Rotating in the opposite direction to the motor									(B) 與馬達同一方向旋轉 Rotating in the same direction as the motor						

■ 60W 調速馬達規格表

框號尺寸 SIZE (mm)	極數 Poles (P)	輸出功率 Output (W)	規格 Type	電壓 Voltage (V)	頻率 Frequency (Hz)	負荷 Duty (min)	額定 Rated Load				電容器 Capacitor (μf/V)	啟動電流 Starting Current (A)	啟動轉矩 Starting Torque (kgf·cm)
							輸入功率 Input (W)	電流 Current (A)	轉速 Speed (RPM/min)	轉矩 Torque (kgf·cm)			
90	4	60	CM09IG60SAFV CM09IA60SAFV	100	50	CONT.	144	1.5	90	3.1	16 / 250	1.4	3
							99	1	1250	4.3			
				100	60	CONT.	146	1.5	90	3	16 / 250	1.5	3
							127	1.3	1600	4.5			
				110	50	CONT.	178	1.6	90	4	16 / 250	1.6	3.5
							110	1	1300	4.6			
				110	60	CONT.	179	1.6	90	3.7	16 / 250	1.6	3.6
							119	1.1	1600	3.7			
			CM09IG60SBFV CM09IA60SBFV	220	50	CONT.	215	1	90	4.1	4 / 450	1	3.7
							110	0.5	1350	4.4			
				220	60	CONT.	210	1	90	4	4 / 450	1	3.7
							113	0.5	1650	3.7			
				230	50	CONT.	236	1	90	4.5	4 / 450	1	4
							118	0.5	1350	4.6			
				230	60	CONT.	232	1	90	4.5	4 / 450	1	4.2
							116	0.5	1650	3.6			
				240	50	CONT.	263	1.1	90	5	4 / 450	1	4.5
							125	0.5	1350	4.5			
				240	60	CONT.	255	1.1	90	4.9	4 / 450	1	4.7
							126	0.5	1650	3.8			

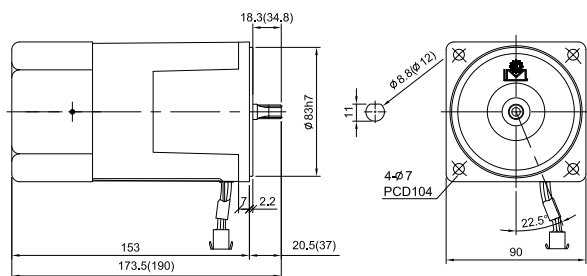
如馬達特性變更，恕不另行通知，以馬達銘牌為準。

In case of change of motor characteristics, no further notice shall be given. The information shown on the nameplate of motor is taken as standard.

馬達線圖 Motor

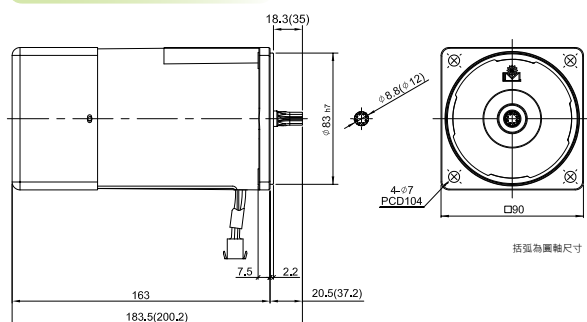
CM09 □ 90FV

註：IA (*) 為 IA 型相關尺寸



重量 Weight : 3.3kg ±5%

CM09 □ 90CFV

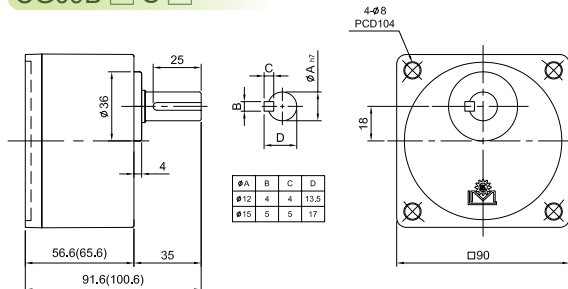


重量 Weight : 3.7kg ±5%

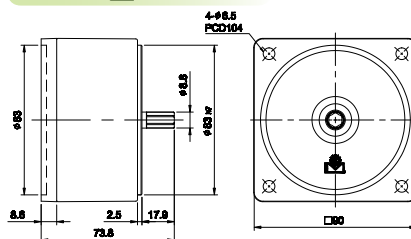
減速機線圖 Gear Head

CG09B □ S □

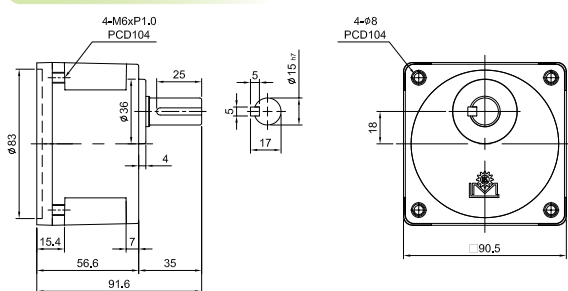
註：(*) 為 1/90~1/240 之尺寸



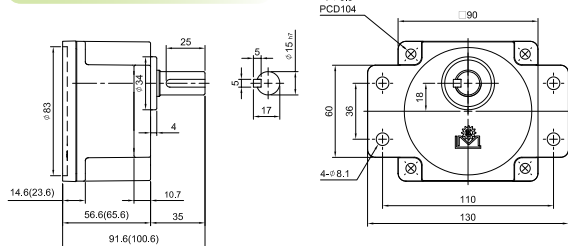
CG09B □ X



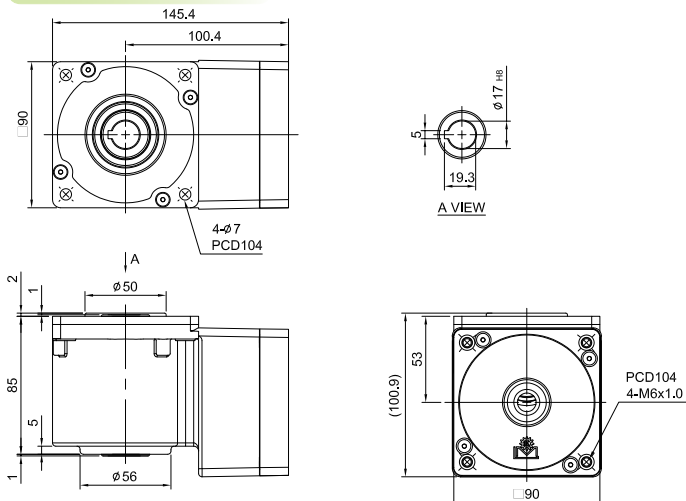
CGCU09B □ S □



CGU09B □ S □



CGB09B □ H □



直接連結減速馬達時之容許轉矩 Permissible Torque of Direct Link Gearmotor

輸出功率 Output Power	馬達型號 Motor Model	減速機型號 Reducer Model	減速比 Ratio	轉速 Speed (RPM)		容許 Permissible (kgf·cm)		低速 Low Speed	減速機出力軸旋轉方向 Rotating direction of output shaft of speed reducer
				50Hz	60Hz	50Hz	60Hz		
90W	CM09IG90	CG09 □	3	500	600	18	14	30	(A) 與馬達同一方向旋轉 Rotating in the same direction as the motor
			5	300	360	28	24	18	
			6	250	300	34	28	15	
			7.5	200	240	43	35	12	
			9	166	200	51	42	10	
			12.5	120	144	71	60	7.2	
			15	100	120	85	70	6	
			18	83	100	96	80	5	(B) 與馬達相反方向旋轉 Rotating in the opposite direction to the motor
			25	60	72	125	103	3.6	
			30	50	60	150	124	3	
			36	42	50	178	149	2.5	
			50	30	36	200	200	1.8	
			60	25	30	200	200	1.5	
			75	20	24	200	200	1.2	
			90	17	20	200	200	1	(C) 與馬達同一方向旋轉 Rotating in the same direction as the motor
			100	15	18	200	200	0.9	
			120	12.5	15	200	200	0.75	
			150	10	12	200	200	0.6	
			180	8.3	10	200	200	0.5	
			200	7.5	9	200	200	-	
			240	6.25	7.5	200	200	-	

直接連結減速馬達時之容許轉矩 (中空軸) Permissible Torque of Direct Link Gearmotor (Hollow Output Shaft)

輸出功率 Output Power	馬達型號 Motor Model	減速機型號 Reducer Model	減速比 Ratio / 頻率 (Hz)	9	15	18	22.5	27	37.5	45	54	75	90	108	150	180	225		
90W	CM09IG90	CGB09 ☐	50Hz	轉速 RPM	166	100	83	66	55	40	33	27	20	16	13	10	8.3	6.6	
				容許 Nm	4.9	8.2	9.9	12.3	14.8	20.6	24.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7
			60Hz	轉速 RPM	200	120	100	80	66	48	40	33	24	20	16	12	10	8	
				容許 Nm	4	6.8	8.1	10.2	12.2	17	20.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
減速機出力軸旋轉方向 Rotating direction of output shaft of speed reducer				(A) 與馬達相反方向旋轉 Rotating in the opposite direction to the motor								(B) 與馬達同一方向旋轉 Rotating in the same direction as the motor							

90W 調速馬達規格表

框號尺寸 SIZE (mm)	極數 Poles (P)	輸出功率 Output (W)	規格 Type	電壓 Voltage (V)	頻率 Frequency (Hz)	負荷 Duty (min)	額定 Rated Load				電容器 Capacitor (μf/V)	啟動電流 Starting Current (A)	啟動轉矩 Starting Torque (kgf·cm)
							輸入功率 Input (W)	電流 Current (A)	轉速 Speed (RPM/min)	轉矩 Torque (kgf·cm)			
90	4	90	CM09IG90SAFV CM09IA90SAFV	100	50	CONT.	226	2.3	90	4	20 / 250	2.4	3.7
							142	1.4	1250	6.7			
				100	60	CONT.	218	2.2	90	4	20 / 250	2.2	4
							141	1.4	1550	5.6			
				110	50	CONT.	278	2.6	90	4.7	20 / 250	2.6	4.5
							152	1.3	1300	6.8			
			CM09IG90SBFV CM09IA90SBFV	110	60	CONT.	264	2.4	90	5	20 / 250	2.5	5
							148	1.4	1600	5.6			
				220	50	CONT.	273	1.3	90	5.6	5 / 450	1.3	5.1
							147	0.68	1300	7.1			
				220	60	CONT.	257	1.2	90	5.1	5 / 450	1.2	5.1
							145	0.7	1600	5.4			
				230	50	CONT.	230	1.4	90	6.1	5 / 450	1.4	5.3
							144	0.6	1350	6.6			
				230	60	CONT.	284	1.3	90	6	5 / 450	1.3	5.6
							150	0.67	1650	5.3			
				240	50	CONT.	329	1.4	90	6.6	5 / 450	1.4	5.9
							150	0.6	1350	6.6			
				240	60	CONT.	312	1.3	90	6.5	5 / 450	1.4	6
							155	0.6	1650	5.3			

如馬達特性變更，恕不另行通知，以馬達銘牌為準。

In case of change of motor characteristics, no further notice shall be given. The information shown on the nameplate of motor is taken as standard.