

電動車用直流無刷馬達 & 驅動器

- Golf Car
- Tractor
- Minivan
- Forklift
- LSV
- Go Cart
- Pedicab
- Scooter
- Bike



電動車用直流無刷馬達

驅動器主要功能特點

- 回升剎車
- 速度及轉矩控制
- 蜂鳴器信號輸出
- 鎖匙開關
- 安全開關
- 正轉 / 反轉切換
- 失效時LED指示

驅動器保護功能

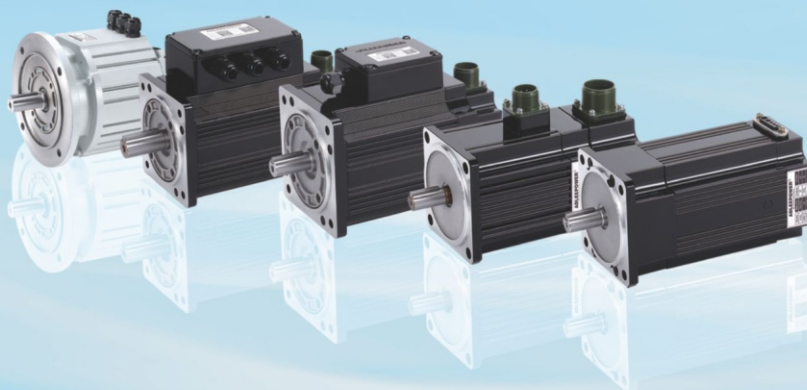
- 過電流保護
- 馬達/驅動器過熱保護
- 低電壓保護
- 馬達堵住保護
- 主電源斷電偵測
- 馬達相間短路保護
- 加速器開機未歸零保護

直流無刷馬達規格

馬達形式		BM-180	BM-370	BM-400E	BM-750E	BM-1500E
驅動器形式		SW02	SW02	SW05A	SW06B	SW06A
輸入電壓	VDC	24	24	48	48	48
額定輸出	W	180	370	400	750	1500
額定轉矩	Kg-cm	9.0	12.0	9.0	16.2	34.0
最大轉矩	Kg-cm	27	40	35	70	130
額定電流	A	9.0	19.0	9.7	18.6	36.0
最大電流	A	25	50	29	57	106
額定速度	RPM	2000	3000	4300	4500	4300
最大速度	RPM	2500	3700	4700	4800	4600
最大輸出	W	280	650	800	2100	3700
馬達外型尺寸圖		Fig 1	Fig 3	Fig 5	Fig 7	Fig 8
驅動器外型尺寸圖		Fig A	Fig A	Fig C	Fig D	Fig E

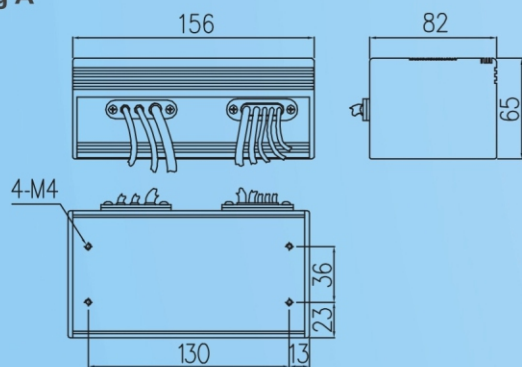
馬達型式		BM-2200E	BM-3700E	BM-5000ES	BM-5000ER	BM-5500E
驅動器形式		SW06A/SW09A	SW08A/SW09B	SW09B	SW09B	SW09C
輸入電壓	VDC	48	48	48	48	72
額定輸出	W	2200	3700	5000	5000	5500
額定轉矩	Kg-cm	48.7	90	72	250	134
最大轉矩	Kg-cm	124/180	150/215	130	350	300
額定電流	A	48	87	114	140	89
最大電流	A	106/140	140/200	200	220	200
額定速度	RPM	4400	4000	6500	1900	4000
最大速度	RPM	4800	4700	7000	6000	4600
最大輸出	W	3700/5200	5200/5800	8000	5700	10500
馬達外型尺寸圖		Fig 8	Fig 9	Fig 11	Fig 12	Fig 10
驅動器外型尺寸圖		Fig E/F	Fig F	Fig F	Fig F	Fig F

驅動器使用功能及保護功能因不同形式而有所區別

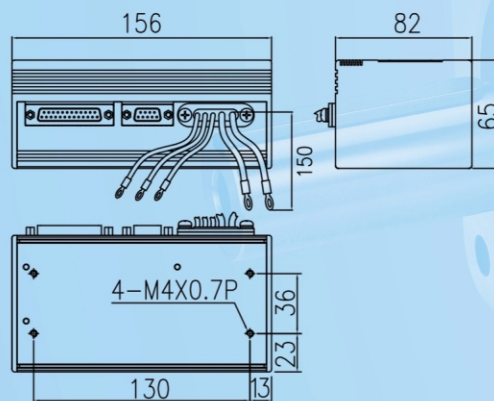


驅動器外型尺寸

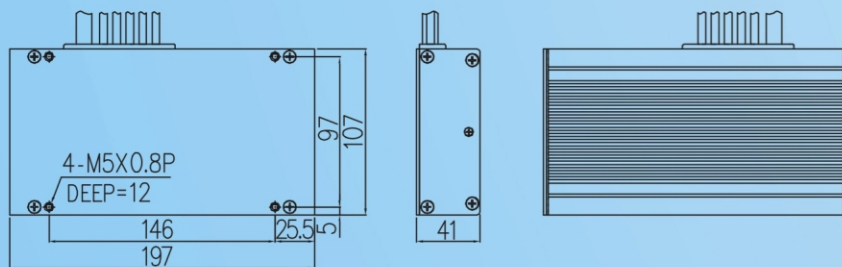
• Fig A



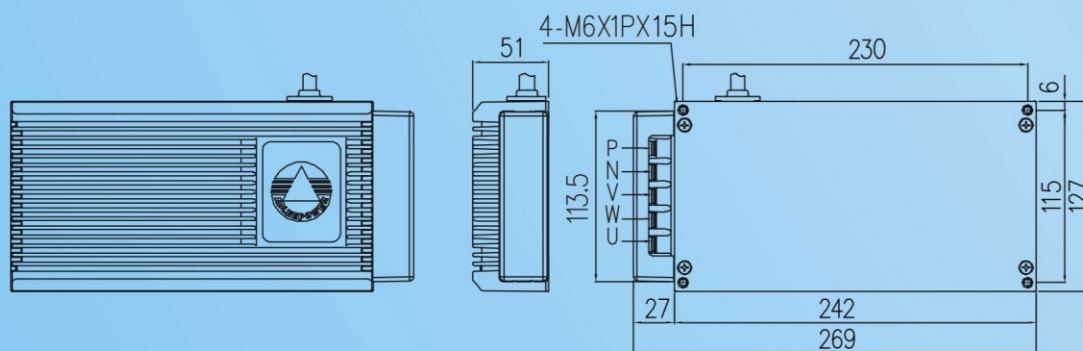
• Fig B



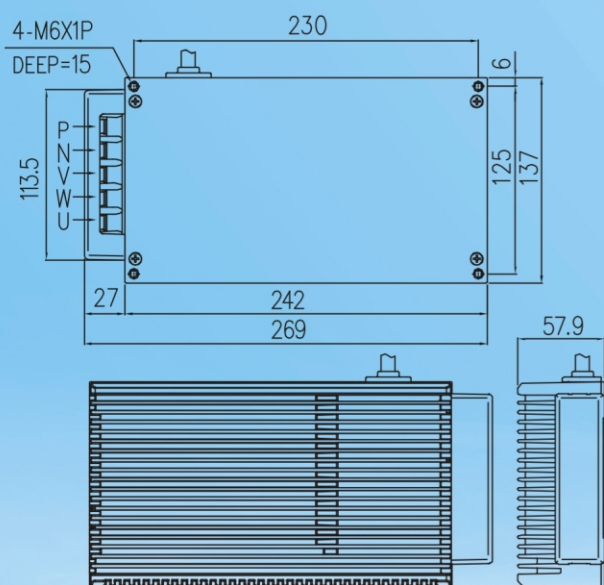
• Fig C



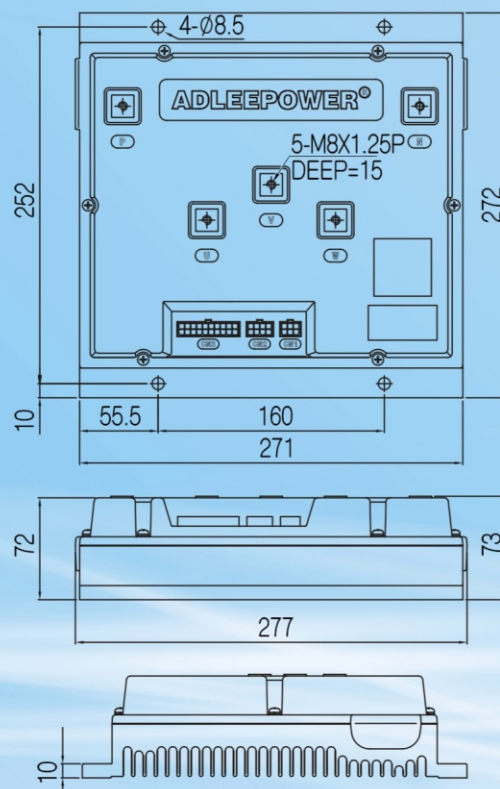
• Fig D



• Fig E

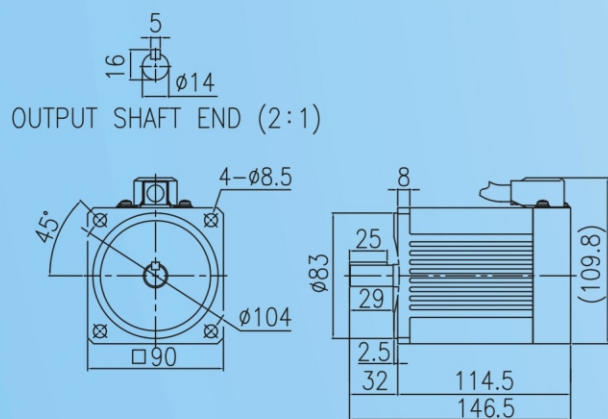


• Fig F

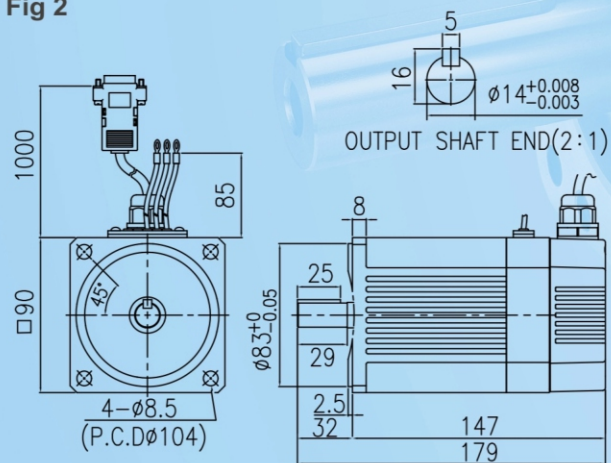


馬達外型尺寸

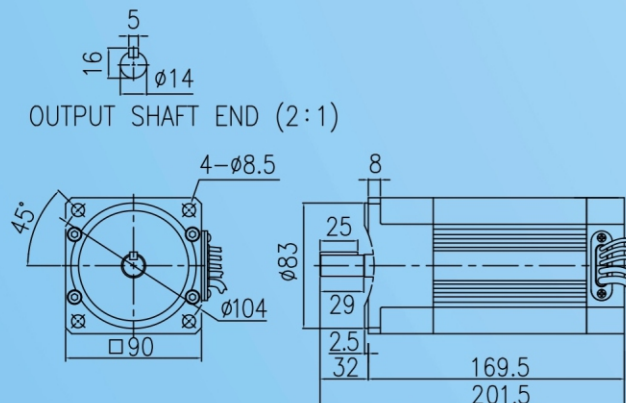
• Fig 1



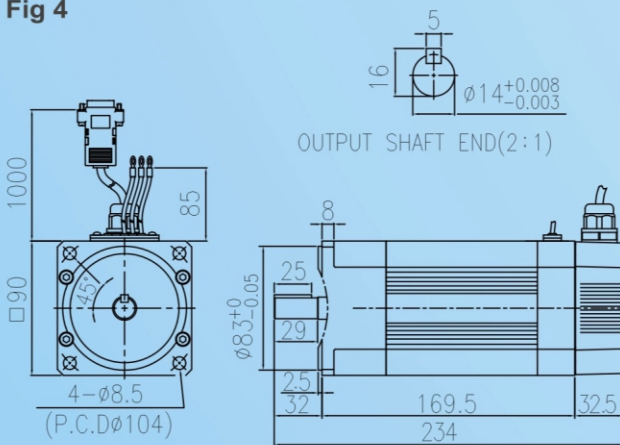
• Fig 2



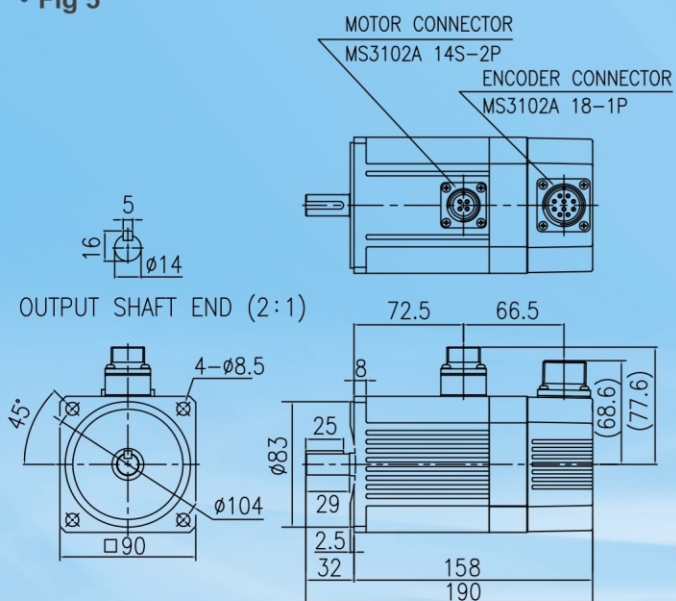
• Fig 3



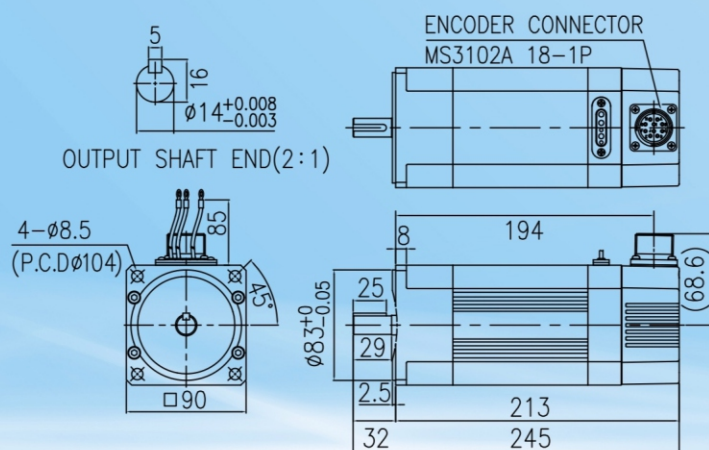
• Fig 4



• Fig 5

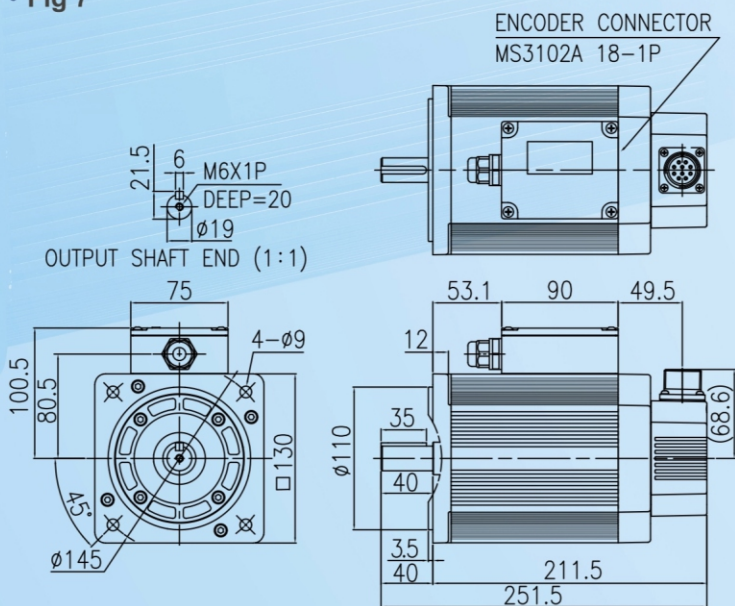


• Fig 6

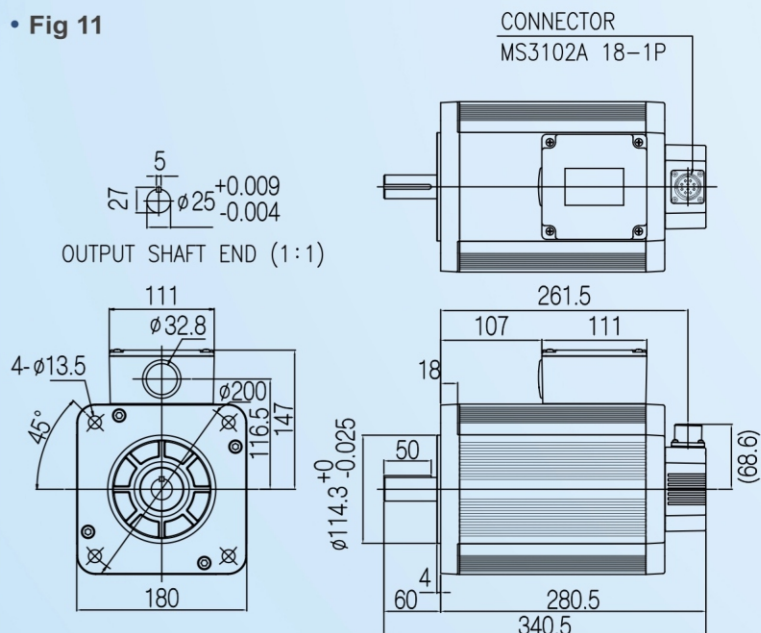


馬達外型尺寸

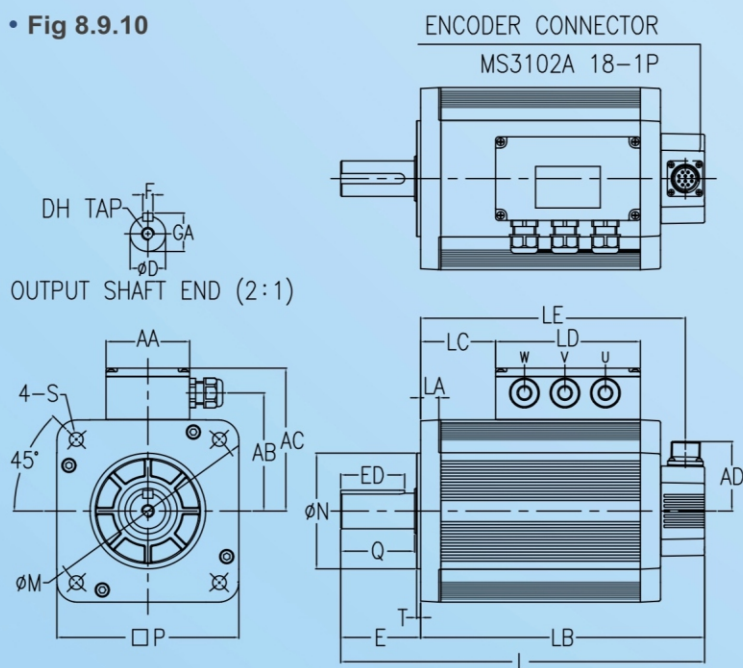
• Fig 7



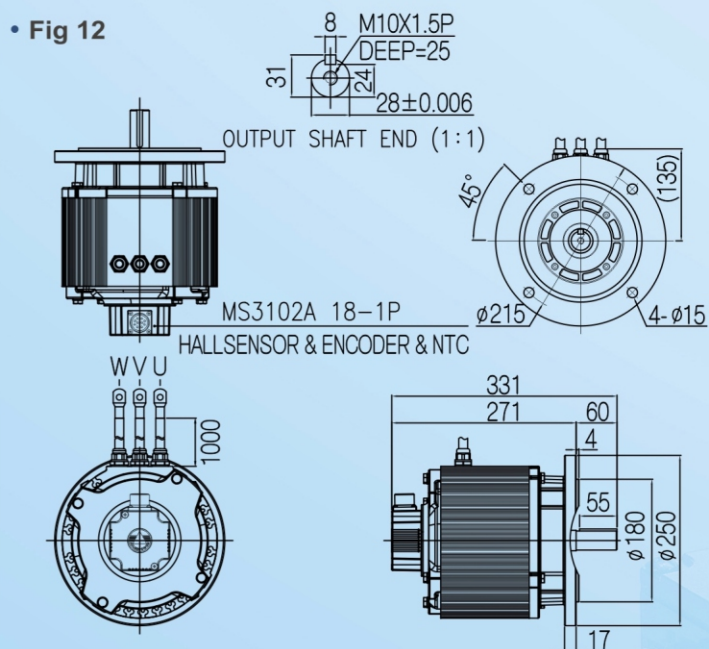
• Fig 11



• Fig 8.9.10



• Fig 12



UNIT : mm

FIG	□P	øM	øS	øN	T	L	LA	LB	LC	LD	LE	AA	AB	AC	AD	SHAFT END						
																ED	Q	E	øD	GA	F	DH
FIG 8	130	145	9	110	3.5	288.5	12	238.5	27	143	219.5	82.5	93.5	116	68.6	45	50	50	24	27	8	M8X24L
FIG 9	180	200	13.5	114.3	4	359.5	18	280.5	74		261.5		116.5	141		63	73	79	35	38	10	M12X25L
FIG10						454.5		341.5	135		322.5			90		108.5	113	42	45	12	M16X32L	

電動車用直流無刷伺服馬達

驅動器主要功能特點

- 閉迴路速度控制
- 加減速時間設定
- 多段速
- SON 伺服使能開關
- 外部類比、通訊數位、轉速/命令選擇
- DI 多工輸入端子
- DO 多工輸出端子

驅動器保護功能

- 過電流保護
- 過負載保護
- 低電壓保護
- 過電壓保護
- 驅動器過熱保護
- HALL SENSOR 異常保護
- 馬達相間短路保護

直流無刷伺服馬達規格

馬達形式		BM-180E	BM-370E	BM-550E	BM-750E
驅動器形式		SWAN2V202	SWAN2V204	SWAN5V205	SWAN6V407
輸入電壓	VDC	24	24	24	48
驅動器最大電壓	VDC	30	30	30	60
額定輸出	W	180	370	550	750
額定轉矩	Kg-cm	6.1	12.2	18.1	24.4
最大轉矩	Kg-cm	16.8	34.2	77.3	69.8
額定電流	A	9.3	18.6	27.6	18.6
最大電流	A	26.1	52	77	52
額定速度	RPM	3000	3000	3000	3000
馬達外型尺寸圖		Fig 2	Fig 4	Fig 6	Fig 7
驅動器外型尺寸圖		Fig B	Fig B	Fig C	Fig E

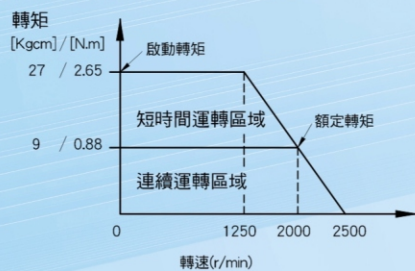
馬達型式		BM-1500E	BM-2200E	BM-3700E
驅動器形式		SWAN6V415	SWAN6V422	SWAN9V437
輸入電壓	VDC	48	48	48
驅動器最大電壓	VDC	60	60	60
額定輸出	W	1500	2200	3700
額定轉矩	Kg-cm	48.8	73.2	122
最大轉矩	Kg-cm	136.64	205	340
額定電流	A	36	48	87
最大電流	A	101	134.4	244
額定速度	RPM	3000	3000	3000
馬達外型尺寸圖		Fig 8	Fig 8	Fig 9
驅動器外型尺寸圖		Fig E	Fig E	Fig F

驅動器使用功能及保護功能因不同形式而有所區別

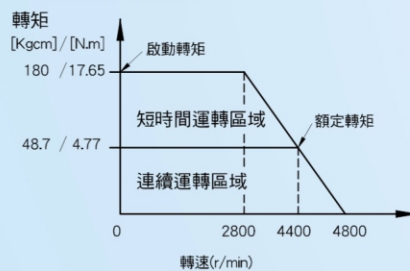


特性曲線圖

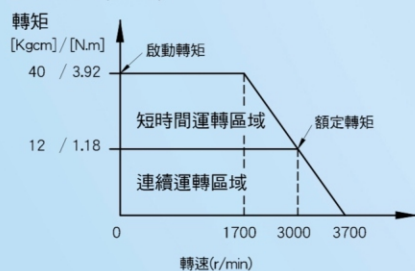
■ BM-180(SW02)



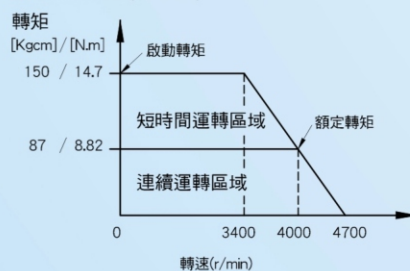
■ BM-2200E (SW08A)



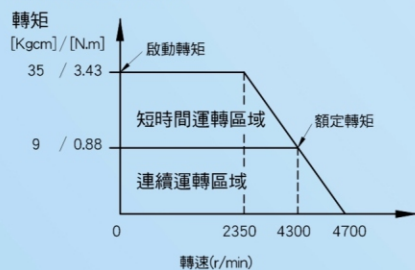
■ BM-370(SW02)



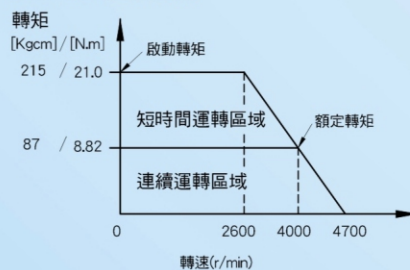
■ BM-3700E (SW08A)



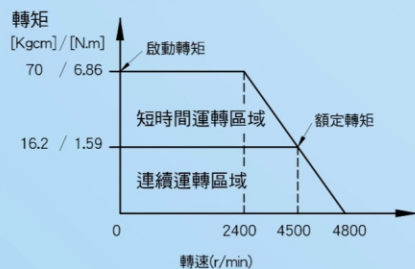
■ BM-400E(SW05A)



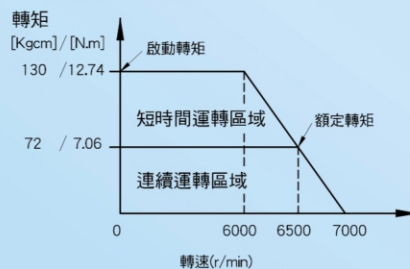
■ BM-3700E (SW08B)



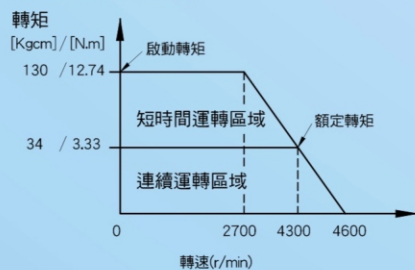
■ BM-750E(SW06B)



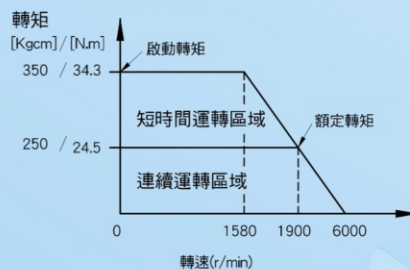
■ BM-5000ES(SW08B)



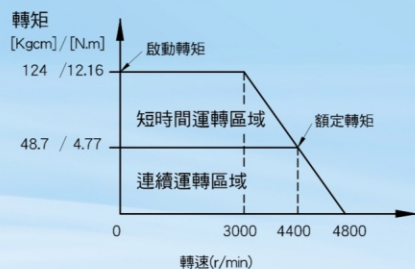
■ BM-1500E(SW06A)



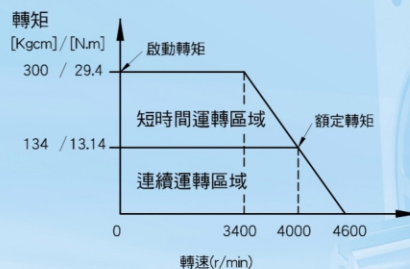
■ BM-5000ER(SW08B)



■ BM-2200E (SW06A)

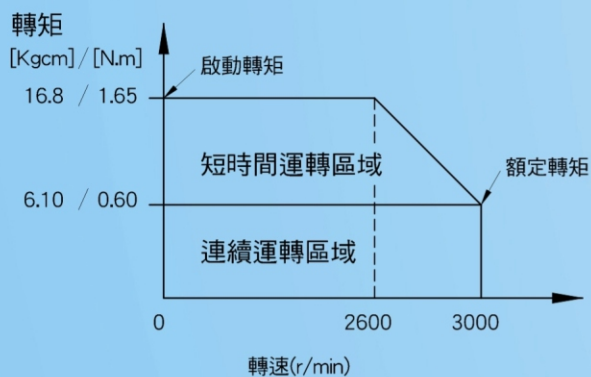


■ BM-5500E(SW08C)

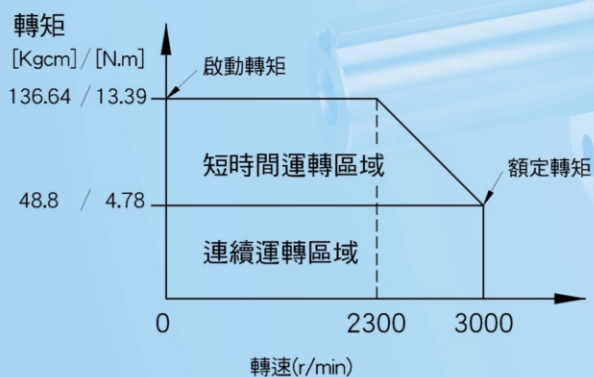


特性曲線圖

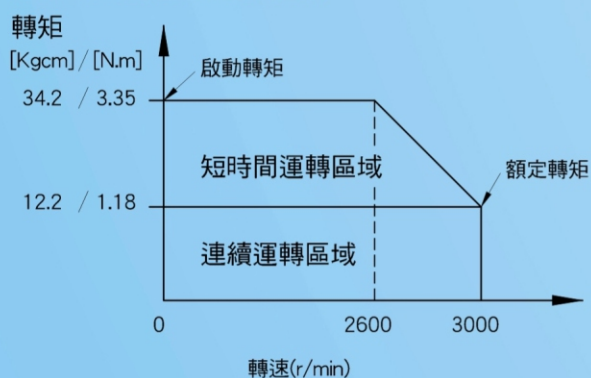
■ BM-180E(SWAN2V202)



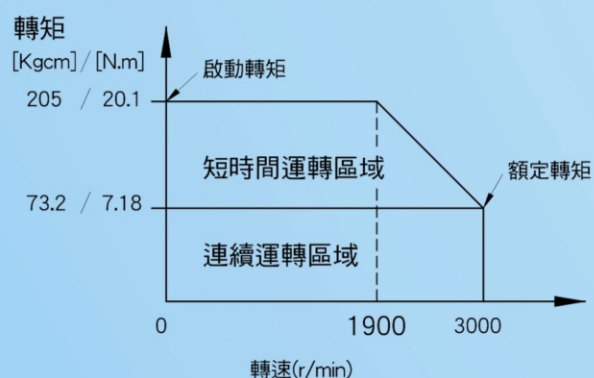
■ BM-1500E(SWAN6V415)



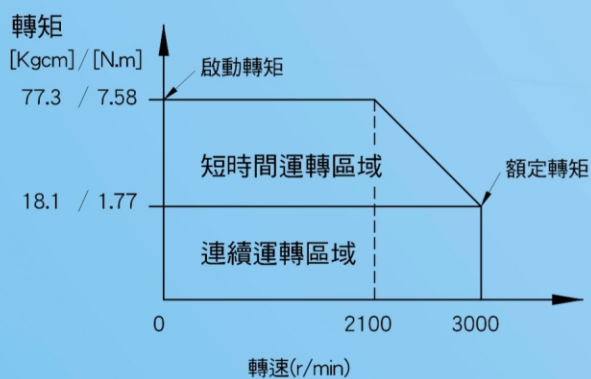
■ BM-370E(SWAN2V204)



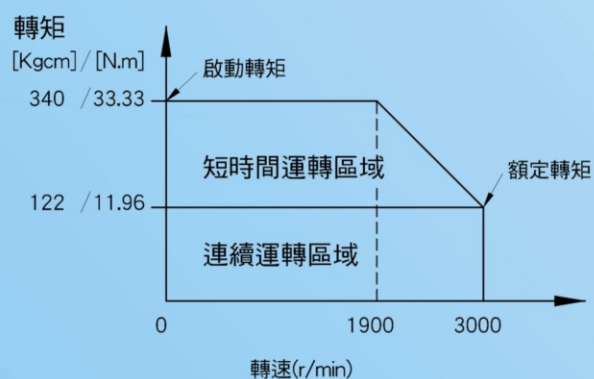
■ BM-2200E(SWAN6V422)



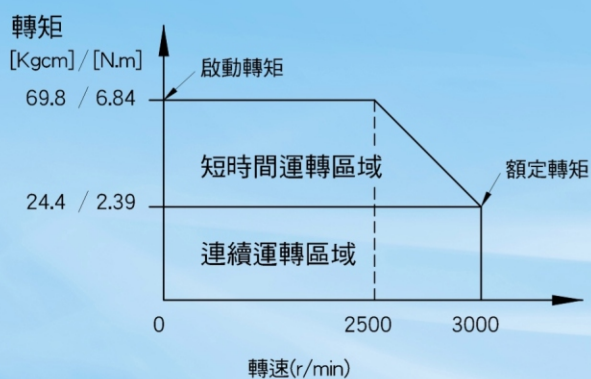
■ BM-550E(SWAN5V205)



■ BM-3700E(SWAN8V437)



■ BM-750E(SWAN6V407)



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