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永磁同步伺服馬達

SERVO MOTORS



利電電機科技股份有限公司



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Permanent Magnetic Synchronous Servo Motors
Constant Innovation and Breakthrough

LDSM Always Pursue

A New Level of Servo Drive Technology

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單位換算

Conversion Factors

1 kW	1 HP	1 Kgf-m	1 N-m	1 Lb-in	1 Lb-ft
1.34 HP	0.746 kW	9.807 N-m	0.10197 kgf-m	0.1129 N-m	1.256 N-m
1.36 PS	1.01 PS	7.233 Lb-ft	0.73756 Lb-ft	0.0115 kgf-m	0.1383 kgf-m
102.0 kgf-m/s	76.07 kgf-m/s	86.796 Lb-in	8.8507 Lb-in	0.083 Lb-ft	12 Lb-in

電動機公式

Electrical Power Formulae

	直 流 DIRECT CURRENT	交 流 ALTERNATING CURRENT	
		單 相 Single Phase	三 相 Three Phase
AMP =	(HP x 746) / (VOLT x EFF) (kW x 1000) / VOLTS	(HP x 746) / (VOLT x EFF x PF) (kW x 1000) / (VOLT x PF)	(HP x 746) / (VOLT x EFF x PF x 1.73) (kW x 1000) / (VOLT x PF x 1.73)
kW =	(APM x VOLT) / 1000	(APM x VOLT x PF) / 1000	(APM x VOLT x PF x 1.73) / 1000
HP =	(AMP x VOLT x EFF) / 746	(AMP x VOLT x EFF x PF) / 746	(AMP x VOLT x EFF x PF x 1.73) / 746

PF = 功率因數約 80%
EFF = 效率·約 80~90%
詳細資料請與馬達製造商聯絡

POWER FACTOR = Usually Estimated At 80%
EFFICIENCY = Usually 80~90%
Contact motor manufacturer for complete information.

公式集

Useful Formulae

預知的條件	ITEM	代號 SYMBOL	公式 FORMULAE	單位 UNIT
扭力	Torque	T	$T = F \times R$	(kgf-m)
扭力	Torque	T	$T = (716 \times Hp) / N$	(kgf-m)
扭力	Torque	T	$T = (974 \times Kw) / N$	(kgf-m)
馬力	HP	Hp	$Hp = (T \times N) / 716$	(Hp)
動力	KW	Kw	$Kw = (T \times N) / 974$	(Kw)
馬力	HP	Hp	$Hp = (F \times V) / 75$	(Hp)
動力	KW	Kw	$Kw = (F \times V) / 102$	(Kw)
速度	SPEED	V	$V = (\pi \times D \times N) / 60$	(m/sec)
減速比	RATIO	i	$i = N1 / N2$	
飛輪效應	DYNAMIC MOMENT	GD ²	$GD^2 = 364 \times (F \times V^2 \times N^2)$	Kgm ²
F: 重量	Mass (KG)		D: 直徑 Diameter (M)	
N: 迴轉數	Return per minutes (RPM)		R: 半徑 Radius (M)	

技術服務

Comprehensive Technical Services

產品從設計研發、組裝測試、銷售服務以及產業各種傳動應用每一個層面，在在強調利電電機科技之新價值觀，豐富的團隊，擁有廣泛的伺服傳動應用歷練，隨時為您提供先進伺服傳動技術，更為未來先進機器傳動貢獻心力。

From product design, R&D, assembly test to aftersales service, everything we do is to enhance LEEDAN'S product value for various applications. Our outstanding teams have extensive experience in servo drive applications, and are always ready to provide you the advanced servo drive technology.

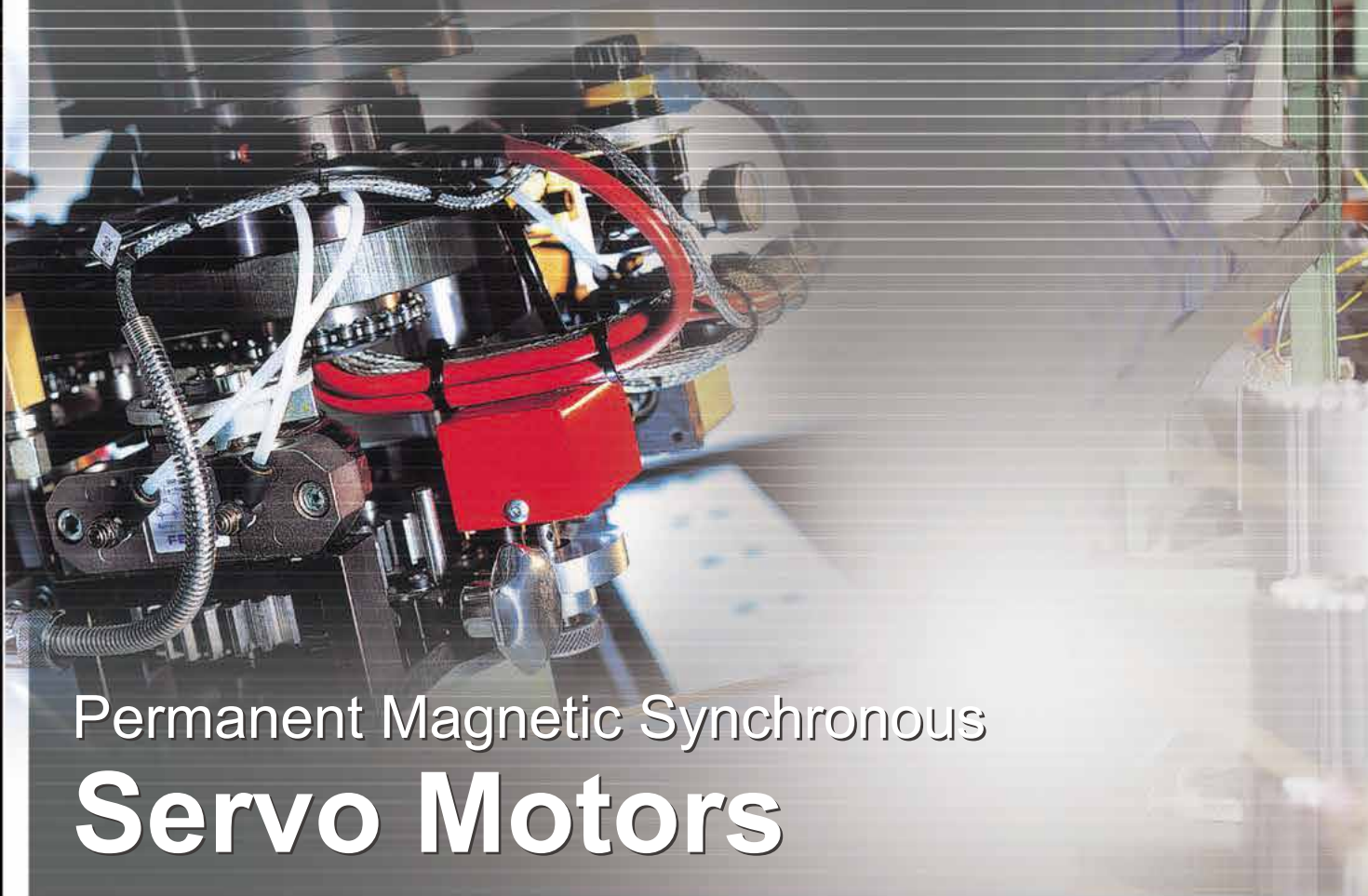


產品應用:

- 自動檢測
- 轉換過程
- 定長裁切 (切管機械)
- 油壓 / 電力轉換
- 材料輸送
- 機械定位
- 機械人
- 半導體
- 紡織機械
- 印刷機
- 彈簧機
- 包裝機
- 材料試驗機
- 取代機械凸輪
- 工廠自動化系統
- 外徑研磨機
- CNC 加工中心機
- 製管機
- 平面研磨機

APPLICATIONS:

- Automatic test
- Transfer process
- Constant length cutting (Pipe cutting machine)
- Hydraulic / electric transfer
- Material conveying
- Machine positioning
- Robot
- Semi-conductor
- Textile machine
- Printing machine
- Spring making machine
- Packaging machine
- Material testing machine
- Substitute for mechanical cam
- Factory automation system
- Cylindrical grinding machine
- CNC machining center
- Pipe making machine
- Surface grinding machine

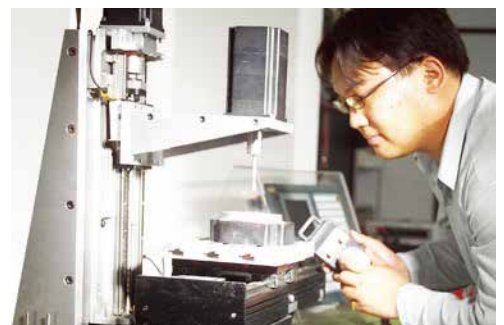


Permanent Magnetic Synchronous Servo Motors

Constant Innovation and Breakthrough LDSM Always Pursue A New Level of Servo Drive Technology !

利電電機公司以服務顧客第一的理念，精益求精作為拓展市場的原則，公司內部設立明確的制度及順暢流通的分工行銷，擴大增設國內服務體系及產品技術支援體制，提供國內產業最優良服務給客戶。滿足客戶的需求，更為將來產業自動化技術提升與建立密切的關係。

Customer first and always do the best is LEEDAN'S policy in market promotion. LEEDAN has set up a clear and smooth marketing system, and provide comprehensive service and support systems for domestic industries. We will do every possible effort to meet customers requirements and give our contribution to industrial automation technology now and future.





LDSM
Excellent is Efficiency

Rigorous Quality
Control Creates
Dependable Quality!



利電永磁同步伺服馬達
創新突破，
追求伺服驅動技術的最高境界！

嚴謹的管控 創立高價值產品

利電電機科技公司，基於獨特機電傳動理念，貫徹品質之精神，更始於伺服傳動馬達及驅動器不斷研發創新，生產過程完全依據嚴格品保政策，對每個伺服馬達做出廠前的徹底檢查，以求最佳運轉效率及穩定伺服作動。

利電電機科技公司 ... 以生產製造高效率“感應伺服馬達、永磁同步伺服馬達、DC 無刷馬達”... 等，十餘年製造生產經驗，以自有品牌行銷全世界，並受到業界相當肯定。

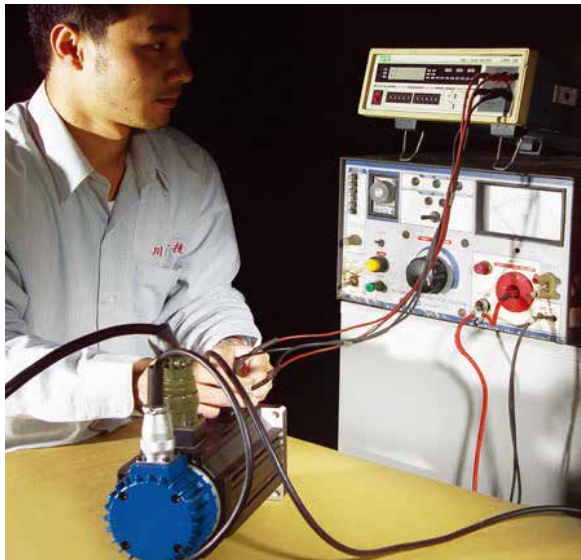
利電電機科技公司深切體認，唯有優越的品質與完善的服務，才是客戶最大的保障，更是利電公司永續經營的最大動力。展望前景，唯有不斷的研究、創新產品，滿足客戶的需求，即是我們的目標，亦是利電在傳動業界中應負使命。

Rigorous Quality Control Creates Dependable Quality!

Based on the company's outstanding know how in motor technology and the philosophy of insisting on quality, LEEDAN dedicated itself in constant R&D of servo motor and driver. Manufacturing of LEEDAN products are conducted according to the company's rigorous quality policy. Each servo motor is subject to comprehensive inspection and test to assure the best possible efficiency and servo stability.

LEEDAN Electric Technology Co., Ltd, is a highly reputed manufacturer of high efficiency induction servo motor, synchronized servo motor and DC carbon brushless motor. With 10 years more of manufacturing experience, LEEDAN products have been sold to over 30 countries around the world under LEEDAN brand name. Each LEEDAN product has been fully satisfied to customers.

At LEEDAN, we have a deep understanding that only superior quality and comprehensive service will give assurance to customers, and this provides a foundation for our business perpetuity. Look to future, we will keep moving for constantly developing new products to meet customers' requirements. We will always strive hand to achieve our strategic target and this is our unwavering commitment to industry.





品質始於設計

利電電機科技公司本著以精湛確實的傳動技術，做為企業經營理念，提供高品質、高效率的服務。全體員工盡心盡力的努力下，多年來秉持提升高階傳統元件自主能力的經營理念，以紮實的專業技術奠定國際市場的競爭力，迅速達成國際的銷售服務網。

目前產品行銷約 30 餘國 ... (英國、法國、義大利、芬蘭、波蘭、德國、瑞典、西班牙、俄羅斯、捷克、丹麥、以色列、加拿大、美國、墨西哥、巴西、阿根廷、智利、中國、日本、韓國、泰國、印尼、馬來西亞、新加坡、印度、澳洲、南非、紐西蘭、越南、阿拉伯 等。)

Quality Starts from Design

Under the company's policy of constant pursuance of advanced transmission technology, LEEDAN has committed to provide the best possible quality of products and services to customers.

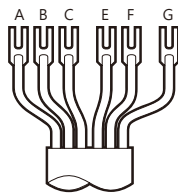
Through the years of efforts by each one at LEEDAN, we have constantly upgraded the in-house manufacturing capability for high quality components. Our outstanding technological background provides us a competitive edge in the worldwide market. Currently, LEEDAN products have been sold to over 30 countries around the world, including U.K, France, Italy, Finland, Poland, Germany, Sweden, Spain, Russia, Czech Rep, Denmark, Israel, Canada, U.S.A, Mexico, Brazil, Argentina, Chile, China, Japan, Korea, Thailand, Indonesia, Malaysia, Singapore, India, Australia, South Africa, New Zealand, Vietnam, Saudi Arabia etc.



電源接頭標示

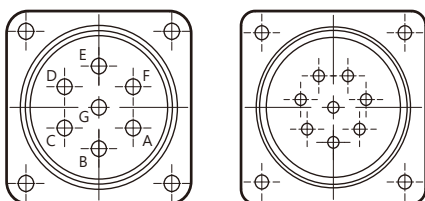
Motor Connector

- LDSM 60-A, B
- LDSM 80-A, B
- LDSM 85-AS, BS, CS, DS



A (紅) Red	U
B (白) White	V
C (黑) Black	W
E (棕) Yellow	溫度 Temp
F (黃) Yellow	溫度 Temp
G (綠) Green	接地 Grounding

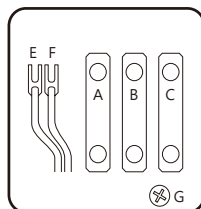
- LDSM 85-A, B, C, D
- LDSM 125-A, B, C, D, E
- LDSM 145-A, B, C, D



8 PIN: 145 - C/D-only

A (紅) Red	U
B (白) White	V
C (黑) Black	W
E (棕) Yellow	溫度 Temp
F (黃) Yellow	溫度 Temp
G (綠) Green	接地 Grounding

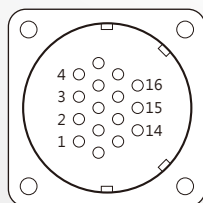
- LDSM 190-A, B, C, D, K, E
- LDSM 230-A, B, C, D, E, F, G, H
- LDSM 300-A, B, C, D, E, F, G, H, I
- LDSM 450-A, B, C, D, E, F, G, H, I



A (紅) Red	U
B (白) White	V
C (黑) Black	W
E (棕) Yellow	溫度 Temp
F (黃) Yellow	溫度 Temp
G (綠) Green	接地 Grounding

訊號接頭

Motor Connector



Pin 1	A	Pin 9	Wf
Pin 2	/A	Pin 10	/Wf
Pin 3	B	Pin 11	Vf
Pin 4	/B	Pin 12	/Vf
Pin 5	C	Pin 13	+ 5V
Pin 6	/C	Pin 14	0V
Pin 7	Uf	Pin 15	Nc
Pin 8	/Uf		
Pin 16	外殼/隔離網 Frame / Isolated screen		

冷卻風扇 Cooling Fan:



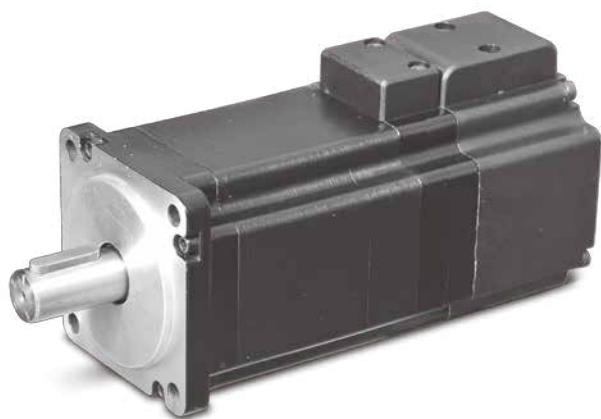
1 (A)	220V
2 (B)	220V
3 (C)	NC

單相電源
Sing. Ph. Pwr

電功內容

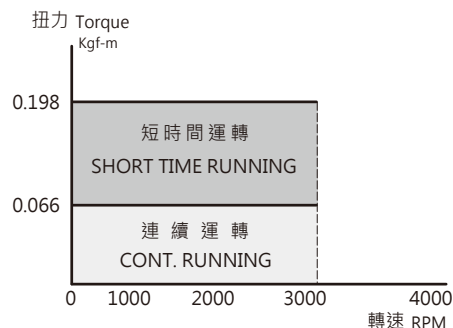
Servo Motor Technical Datasheet

速度 / 位置檢出器	光學式編碼器 2500 P/R	Speed / Position detector	Optical encoder 2500 P/R
時間額定	連續 S1	Time rating	Continuous S1
絕緣等級	H級(B種)	Insulation class	H Class (B type)
絕緣耐壓	AC-1500V 一分鐘	Insulated voltage resistance	AC-1500V. One min.
絕緣阻抗	DC-500V.10M(Ω)以上	Insulation impedance	DC-500V. Over 10M(Ω)
溫度保護	內藏式125°C/±5%溫度開關	Temperature protection	Built-in 125°C/±5% temperature sensor
保護等級	IP 54	Protection class	IP 54
構造	全閉自冷式	Construction	Totally enclosed self cooling
震動	2G 以下	Vibration	Under 2G
標高	海拔 1000m 以下 R/H	Elevation	Under 100m elevation R/H
使用溫度	溫度: -10~+40°C	Allowable temp.	Temperature: -10~+40°C
保存溫度	溫度: -20~+60°C	Storing temp.	Temperature: -20~+60°C
使用 & 保存濕度	濕度 90% (以不結露為條件)	Allowable / Storing humidity	Humidity 90% (no dewing)
塗裝色 / 固定方式	黑色 / 法蘭式	Color / Mounting method	Black / Flange type



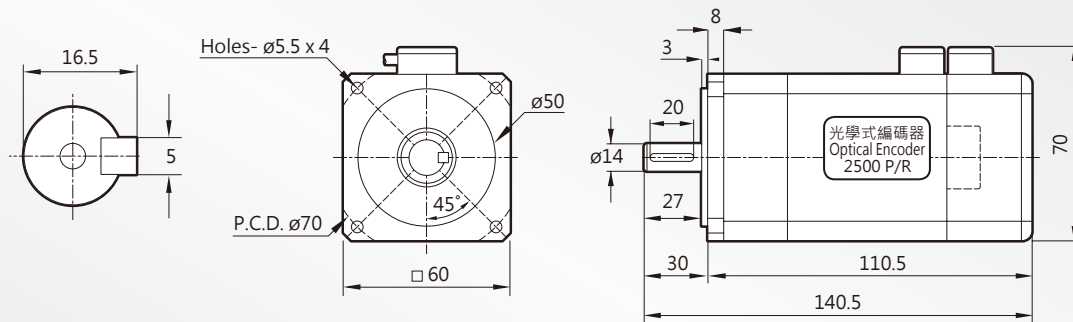
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions



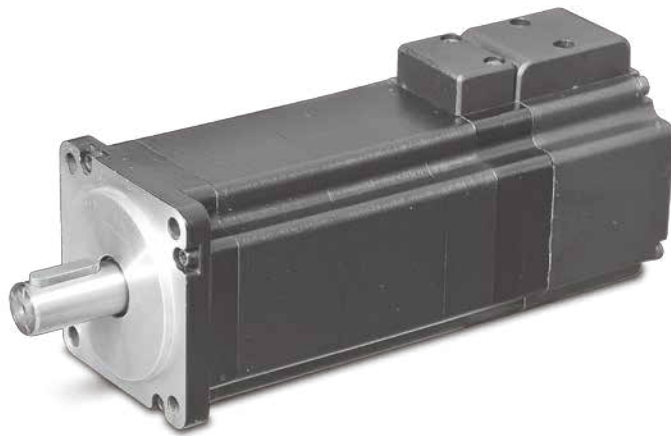
UNIT mm

技術資料

Servo Motor Technical Datasheet

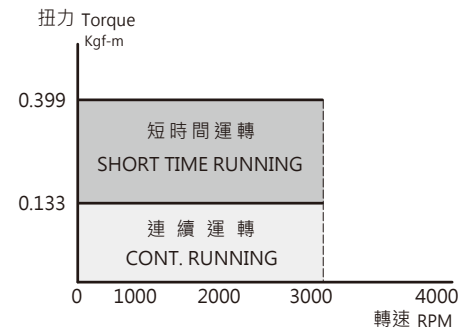
LDSM60-A

項目	Item	符號 Code	單位 Unit	200V
額定輸出	Rated output	PR	kW	0.2
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 5
額定轉矩	Rated torque	TR	Kgf-m	0.066
額定電流	Rated current	IR	A	0.9
額定轉速	Rated speed	NR	rpm	3000
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	0.198
瞬間最大電流	Instant max. current	IP	A	2.71
最大轉速	Max. speed	Nmax	rpm	5000
轉矩常數	Torque constant	KT	N·m/A	0.72
感應電壓常數	Induction voltage constant	KE	V/k rpm	40
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	0.18
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	0.72
重量 (標準)	Weight (Standard)	W	kg	1.3



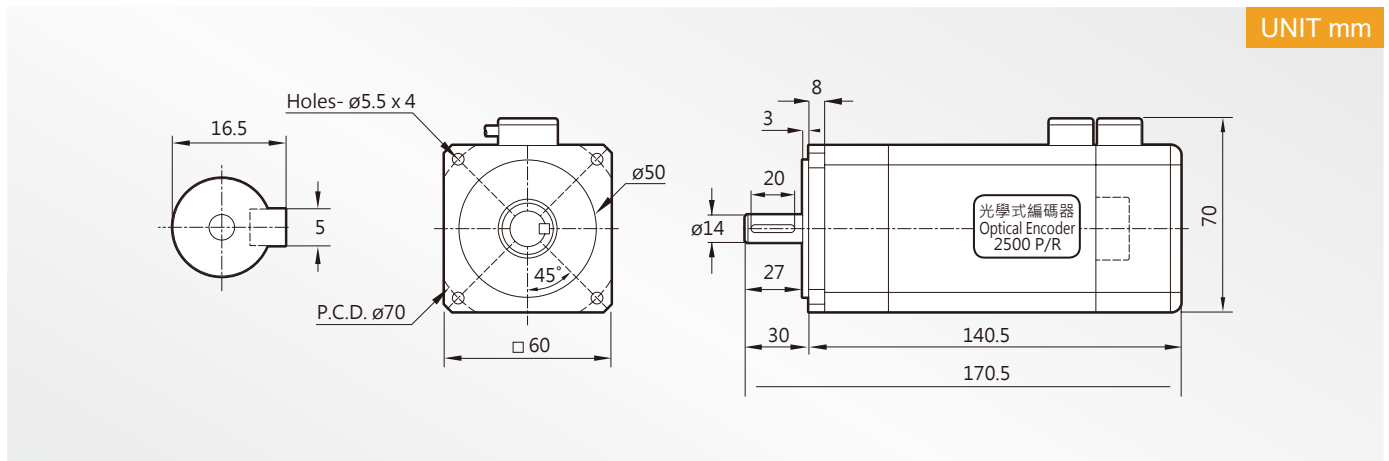
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions

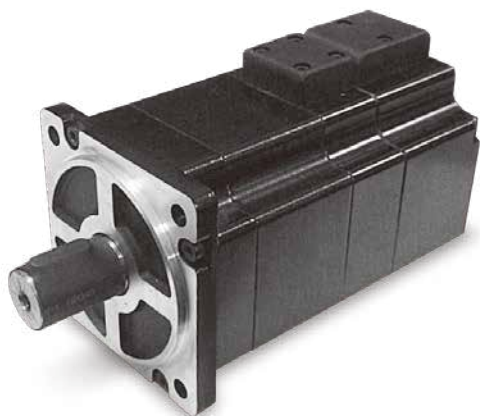


技術資料

Servo Motor Technical Datasheet

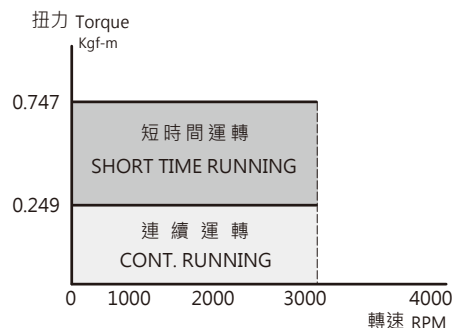
LDSM60-B

項目	Item	符號 Code	單位 Unit	200V
額定輸出	Rated output	PR	kW	0.4
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 5
額定轉矩	Rated torque	TR	Kgf-m	0.133
額定電流	Rated current	IR	A	1.82
額定轉速	Rated speed	NR	rpm	3000
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	0.399
瞬間最大電流	Instant max. current	IP	A	5.45
最大轉速	Max. speed	Nmax	rpm	5000
轉矩常數	Torque constant	KT	N·m/A	0.72
感應電壓常數	Induction voltage constant	KE	V/k rpm	40
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	0.295
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	1.18
重量 (標準)	Weight (Standard)	W	kg	1.75



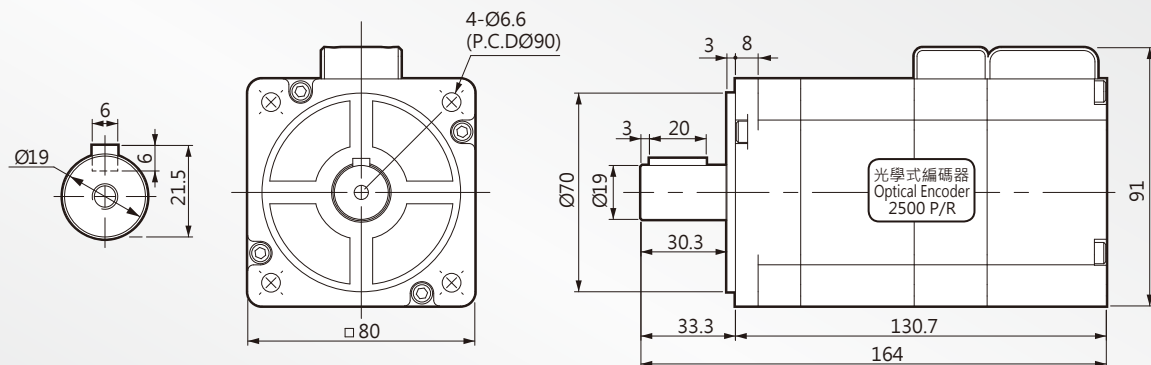
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions

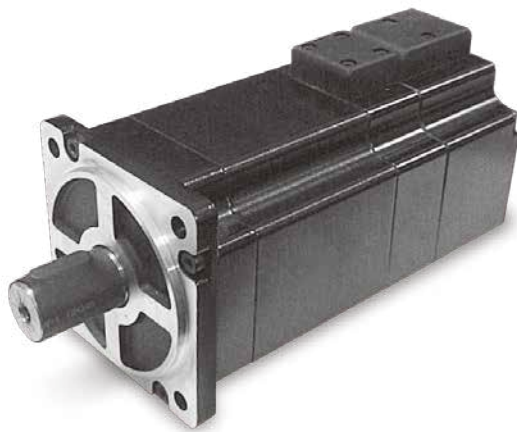


技術資料

Servo Motor Technical Datasheet

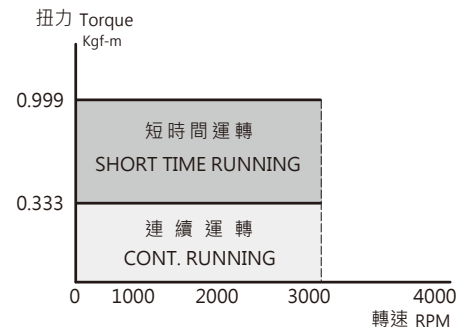
LDSM80-A

項目	Item	符號 Code	單位 Unit	200V
額定輸出	Rated output	PR	kW	0.75
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 5
額定轉矩	Rated torque	TR	Kgf-m	0.249
額定電流	Rated current	IR	A	3.4
額定轉速	Rated speed	NR	rpm	3000
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	0.747
瞬間最大電流	Instant max. current	IP	A	10.2
最大轉速	Max. speed	Nmax	rpm	4500
轉矩常數	Torque constant	KT	N·m/A	0.72
感應電壓常數	Induction voltage constant	KE	V/k rpm	40
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	1.57
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	6.28
重量 (標準)	Weight (Standard)	W	kg	2.5



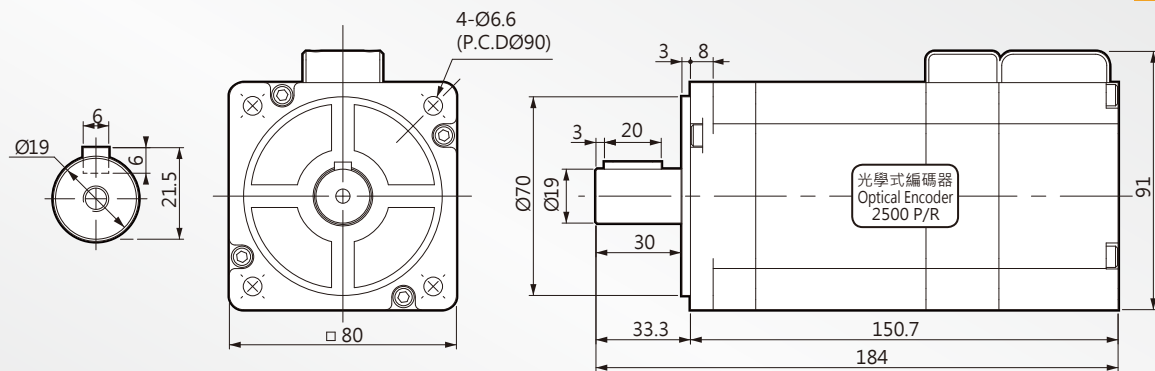
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions



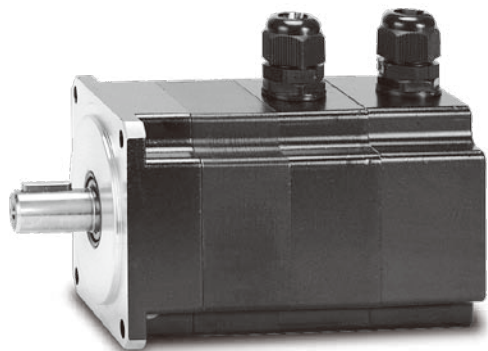
UNIT mm

技術資料

Servo Motor Technical Datasheet

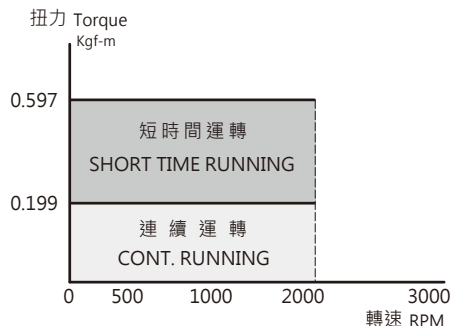
LDSM80-B

項目	Item	符號 Code	單位 Unit	200V
額定輸出	Rated output	PR	kW	1
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 10
額定轉矩	Rated torque	TR	Kgf-m	0.333
額定電流	Rated current	IR	A	4.55
額定轉速	Rated speed	NR	rpm	3000
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	0.999
瞬間最大電流	Instant max. current	IP	A	13.7
最大轉速	Max. speed	Nmax	rpm	4500
轉矩常數	Torque constant	KT	N·m/A	0.72
感應電壓常數	Induction voltage constant	KE	V/k rpm	40
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	2.32
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	9.28
重量 (標準)	Weight (Standard)	W	kg	3



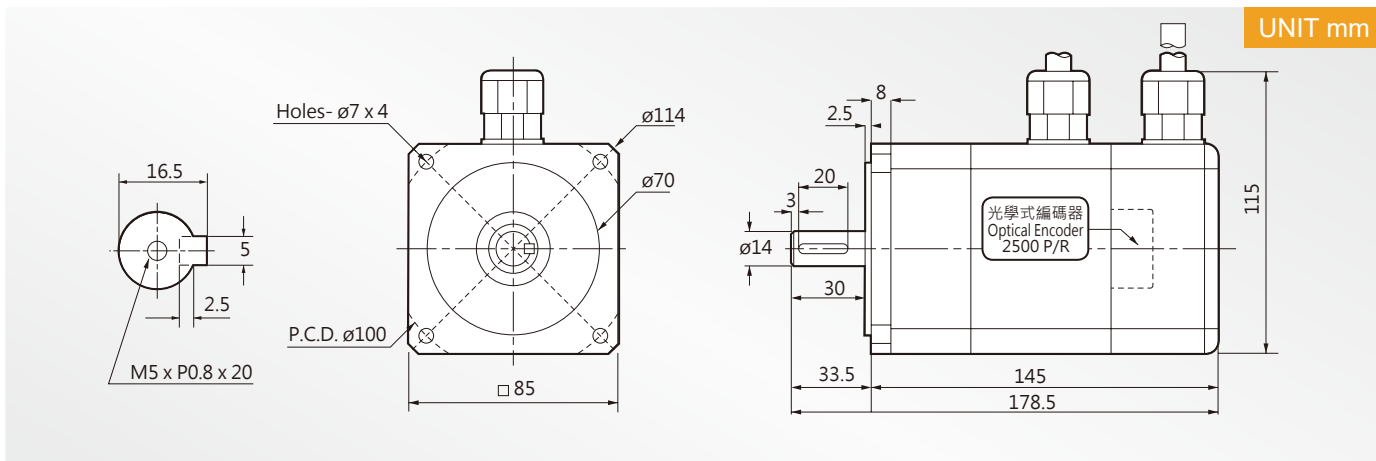
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions

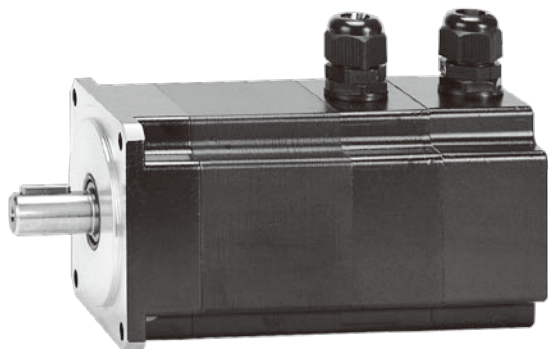


技術資料

Servo Motor Technical Datasheet

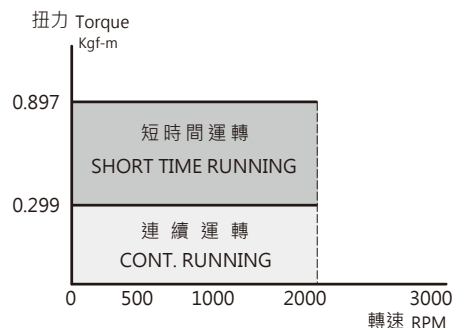
LDSM85-AS

項目	Item	符號 Code	單位 Unit	200V
額定輸出	Rated output	PR	kW	0.4
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 5
額定轉矩	Rated torque	TR	Kgf-m	0.199
額定電流	Rated current	IR	A	2.42
額定轉速	Rated speed	NR	rpm	2000
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	0.597
瞬間最大電流	Instant max. current	IP	A	7.25
最大轉速	Max. speed	Nmax	rpm	3000
轉矩常數	Torque constant	KT	N·m/A	0.81
感應電壓常數	Induction voltage constant	KE	V/k rpm	45
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	1.86
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	7.44
重量 (標準)	Weight (Standard)	W	kg	3



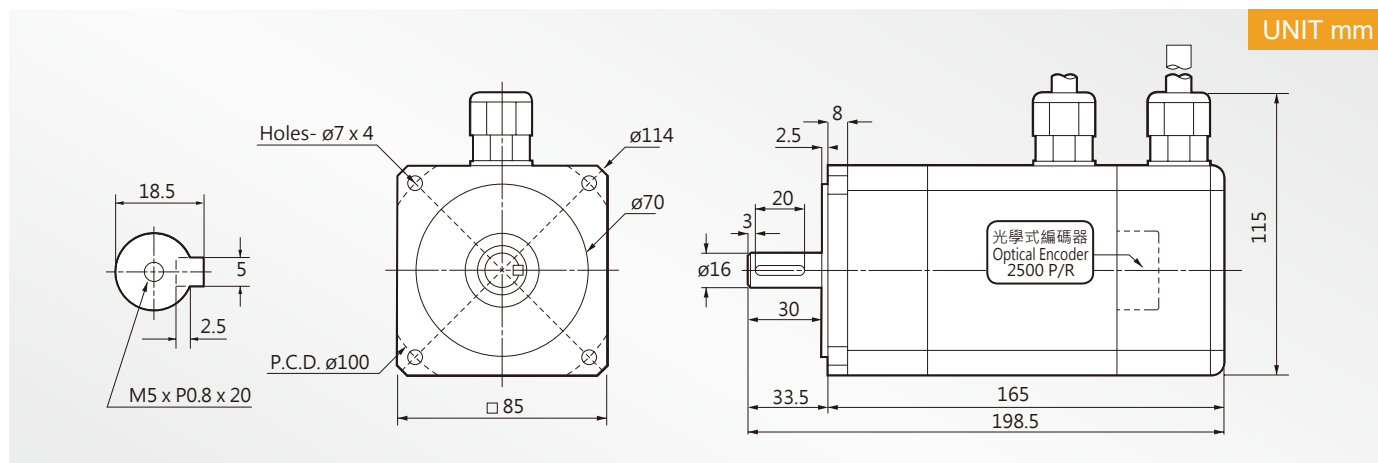
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions

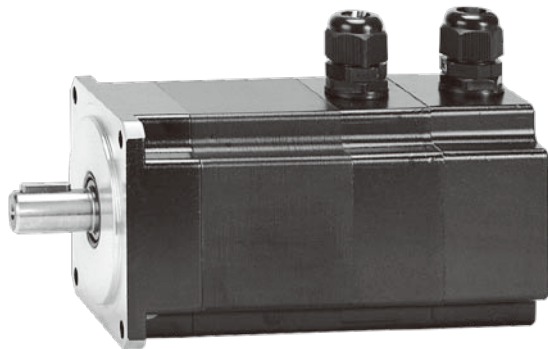


技術資料

Servo Motor Technical Datasheet

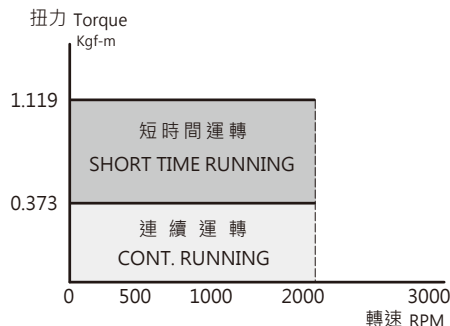
LDSM85-BS

項目	Item	符號 Code	單位 Unit	200V
額定輸出	Rated output	PR	kW	0.6
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 5
額定轉矩	Rated torque	TR	Kgf-m	0.299
額定電流	Rated current	IR	A	3.63
額定轉速	Rated speed	NR	rpm	2000
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	0.897
瞬間最大電流	Instant max. current	IP	A	10.9
最大轉速	Max. speed	Nmax	rpm	3000
轉矩常數	Torque constant	KT	N·m/A	0.81
感應電壓常數	Induction voltage constant	KE	V/k rpm	45
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	2.74
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	10.96
重量 (標準)	Weight (Standard)	W	kg	4



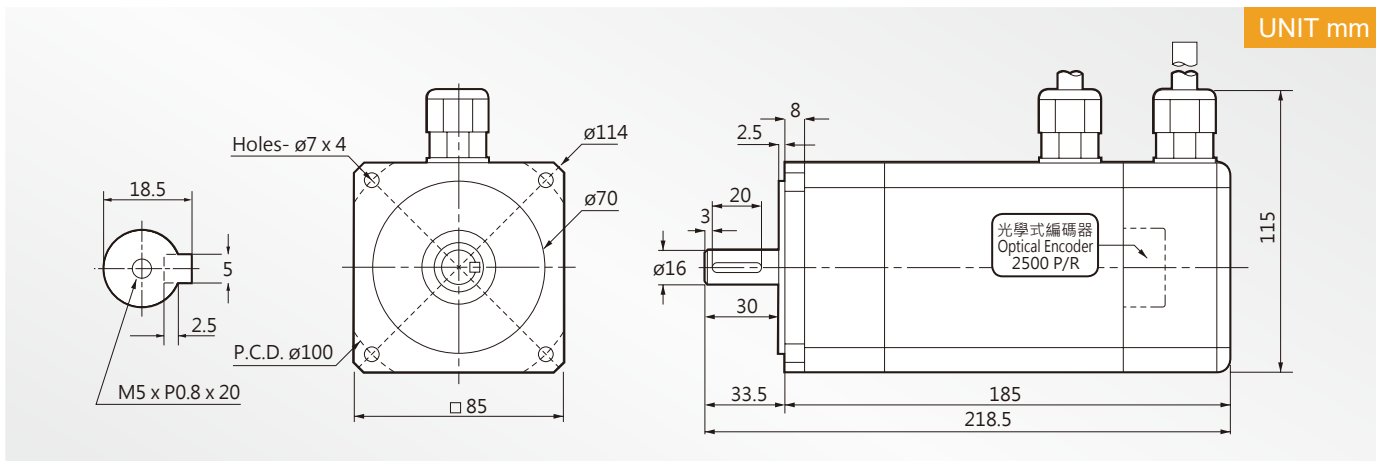
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions

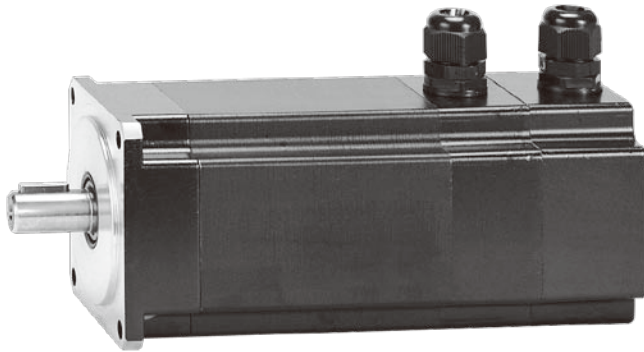


技術資料

Servo Motor Technical Datasheet

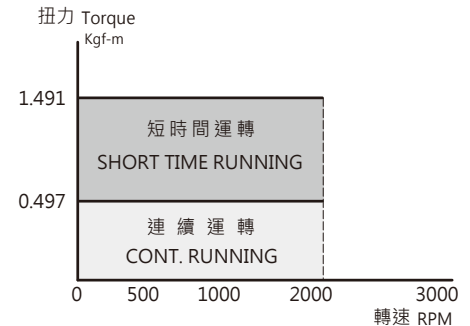
LDSM85-CS

項目	Item	符號 Code	單位 Unit	200V
額定輸出	Rated output	PR	kW	0.75
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 5
額定轉矩	Rated torque	TR	Kgf-m	0.373
額定電流	Rated current	IR	A	4.53
額定轉速	Rated speed	NR	rpm	2000
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	1.119
瞬間最大電流	Instant max. current	IP	A	13.6
最大轉速	Max. speed	Nmax	rpm	3000
轉矩常數	Torque constant	KT	N·m/A	0.81
感應電壓常數	Induction voltage constant	KE	V/k rpm	45
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	3.63
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	14.52
重量 (標準)	Weight (Standard)	W	kg	5



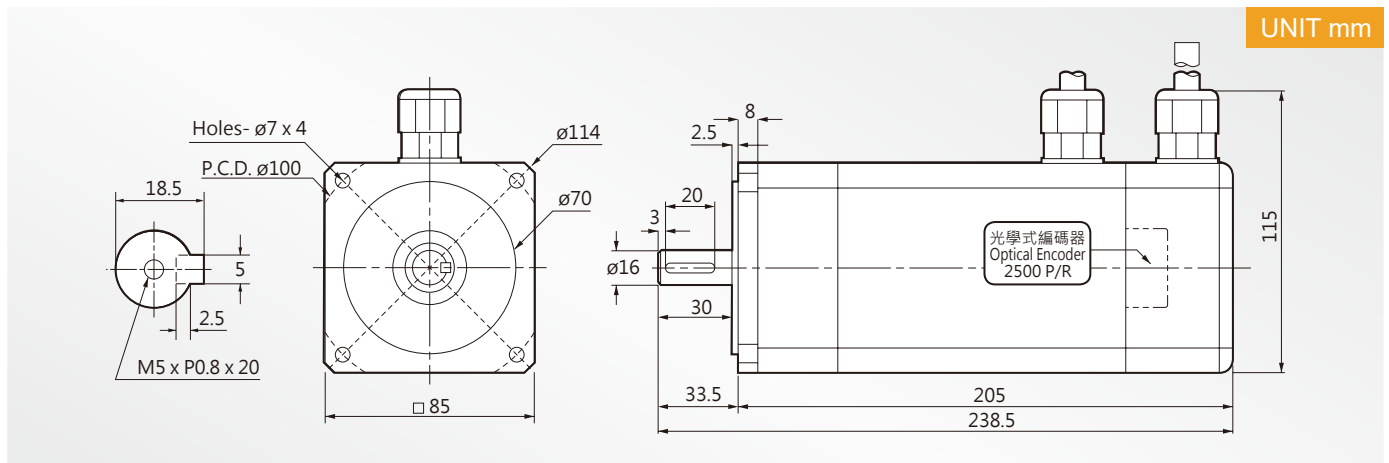
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions

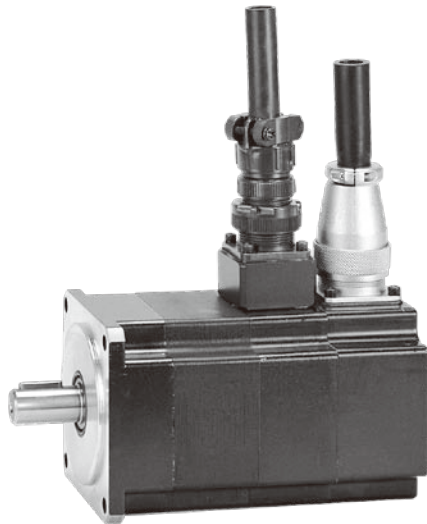


技術資料

Servo Motor Technical Datasheet

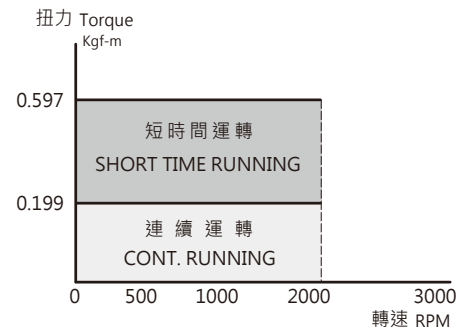
LDSM85-DS

項目	Item	符號 Code	單位 Unit	200V
額定輸出	Rated output	PR	kW	1
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 5
額定轉矩	Rated torque	TR	Kgf-m	0.497
額定電流	Rated current	IR	A	6.04
額定轉速	Rated speed	NR	rpm	2000
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	1.491
瞬間最大電流	Instant max. current	IP	A	18.1
最大轉速	Max. speed	Nmax	rpm	3000
轉矩常數	Torque constant	KT	N·m/A	0.81
感應電壓常數	Induction voltage constant	KE	V/k rpm	45
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	4.51
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	18.04
重量 (標準)	Weight (Standard)	W	kg	6



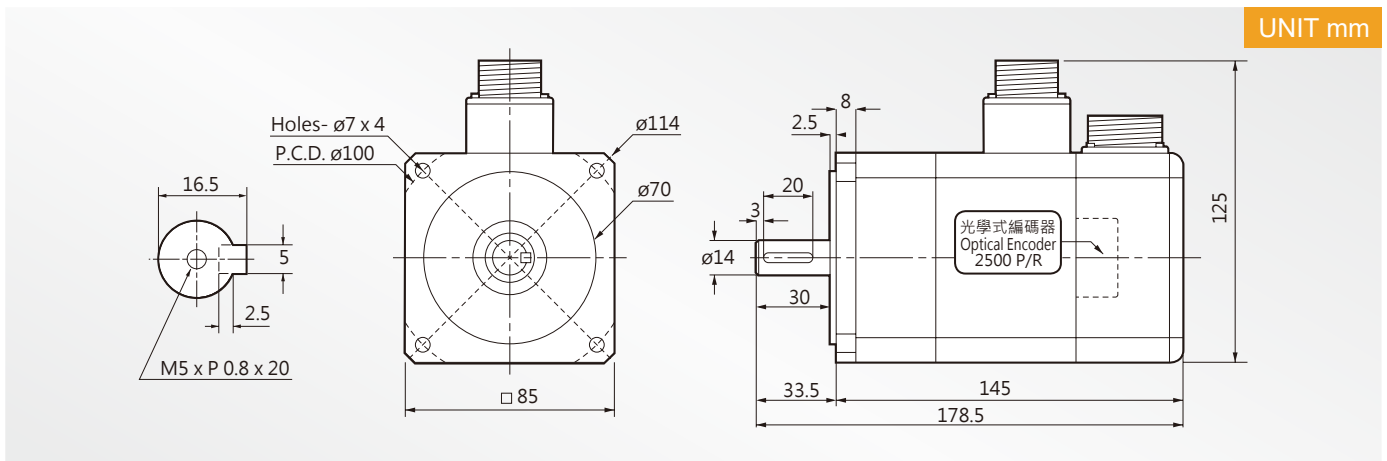
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions

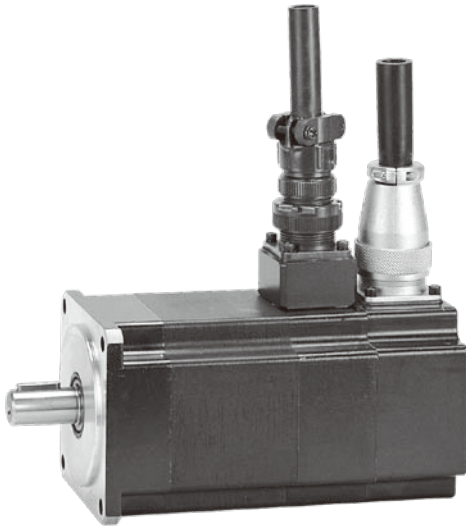


技術資料

Servo Motor Technical Datasheet

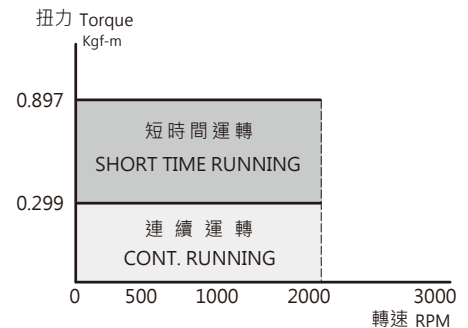
LDSM85-A

項目	Item	符號 Code	單位 Unit	200V
額定輸出	Rated output	PR	kW	0.4
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 5
額定轉矩	Rated torque	TR	Kgf-m	0.199
額定電流	Rated current	IR	A	2.42
額定轉速	Rated speed	NR	rpm	2000
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	0.597
瞬間最大電流	Instant max. current	IP	A	7.25
最大轉速	Max. speed	Nmax	rpm	3000
轉矩常數	Torque constant	KT	N·m/A	0.81
感應電壓常數	Induction voltage constant	KE	V/k rpm	45
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	1.86
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	7.44
重量 (標準)	Weight (Standard)	W	kg	3



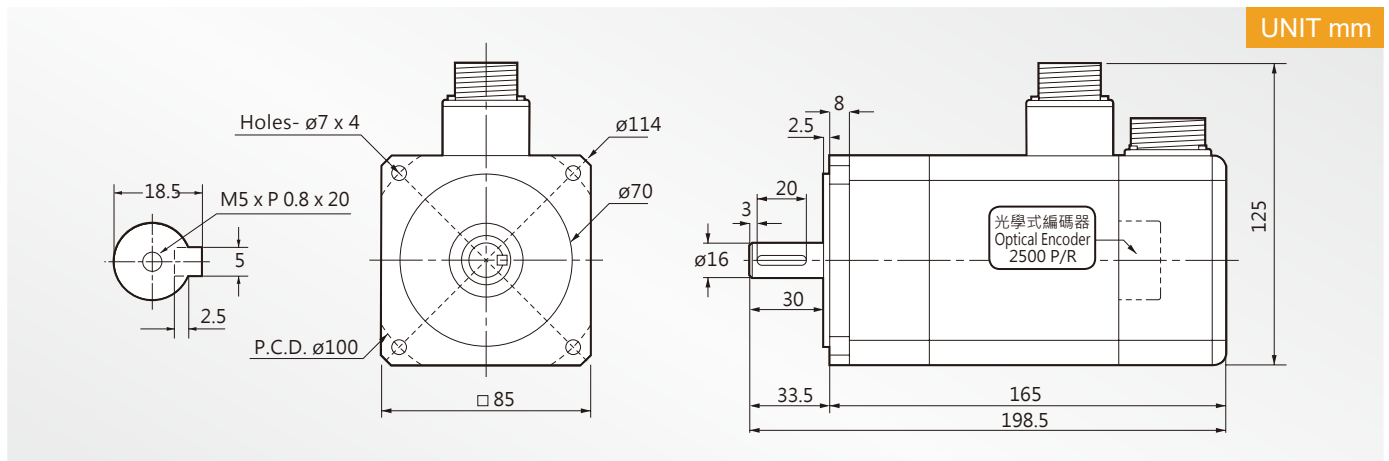
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions

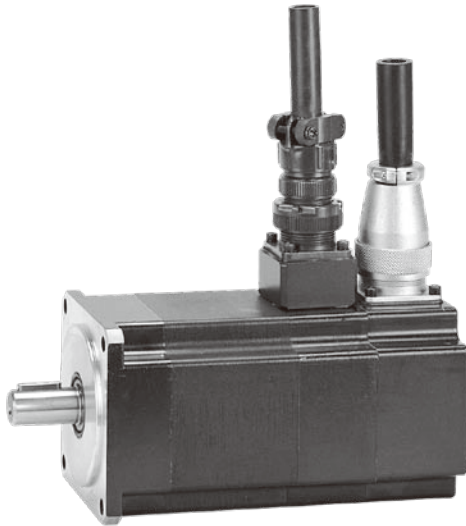


技術資料

Servo Motor Technical Datasheet

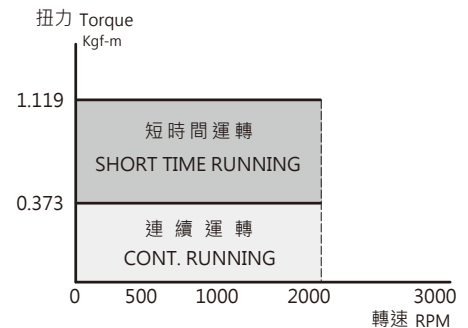
LDSM85-B

項目	Item	符號 Code	單位 Unit	200V
額定輸出	Rated output	PR	kW	0.6
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 5
額定轉矩	Rated torque	TR	Kgf-m	0.299
額定電流	Rated current	IR	A	3.63
額定轉速	Rated speed	NR	rpm	2000
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	0.897
瞬間最大電流	Instant max. current	IP	A	10.9
最大轉速	Max. speed	Nmax	rpm	3000
轉矩常數	Torque constant	KT	N·m/A	0.81
感應電壓常數	Induction voltage constant	KE	V/k rpm	45
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	2.74
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	10.96
重量 (標準)	Weight (Standard)	W	kg	4



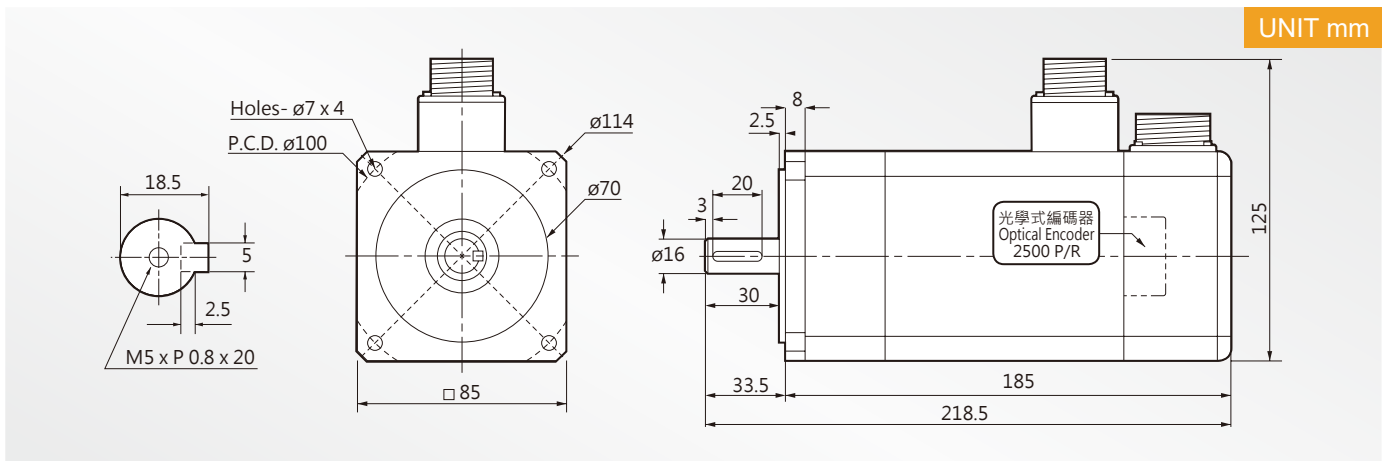
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions

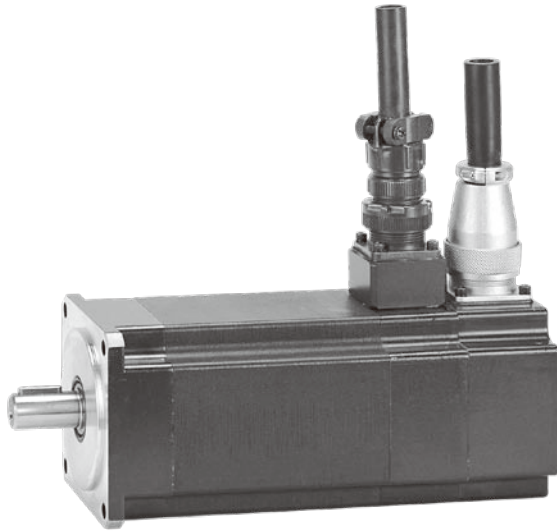


技術資料

Servo Motor Technical Datasheet

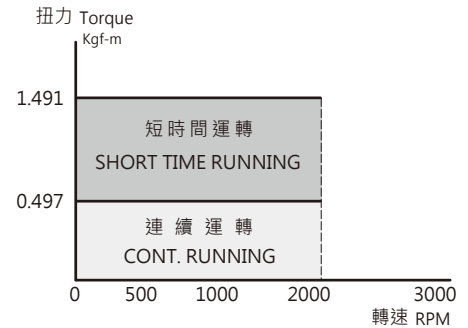
LDSM85-C

項目	Item	符號 Code	單位 Unit	200V
額定輸出	Rated output	PR	kW	0.75
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 5
額定轉矩	Rated torque	TR	Kgf-m	0.373
額定電流	Rated current	IR	A	4.53
額定轉速	Rated speed	NR	rpm	2000
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	1.119
瞬間最大電流	Instant max. current	IP	A	13.6
最大轉速	Max. speed	Nmax	rpm	3000
轉矩常數	Torque constant	KT	N·m/A	0.81
感應電壓常數	Induction voltage constant	KE	V/k rpm	45
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	3.63
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	14.52
重量 (標準)	Weight (Standard)	W	kg	5



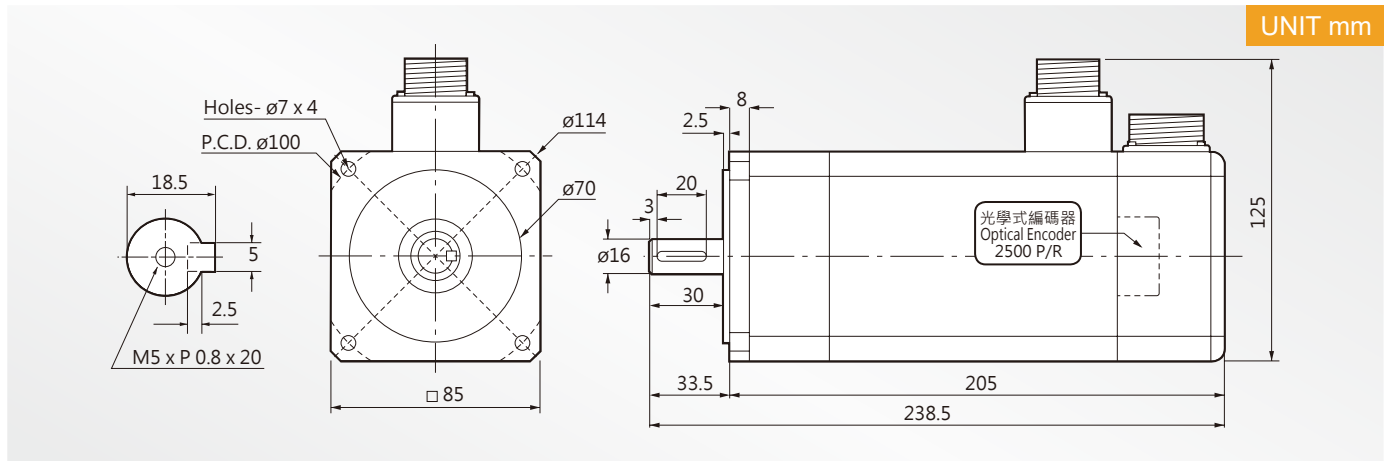
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions

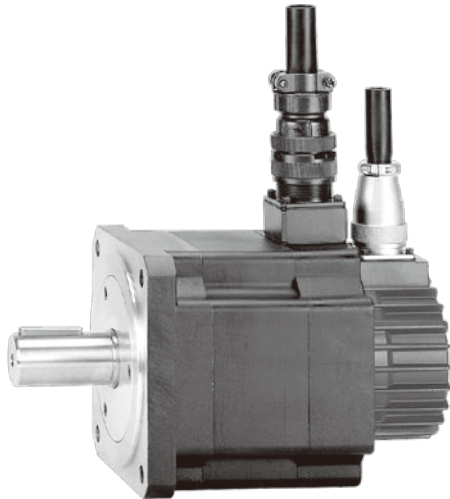


技術資料

Servo Motor Technical Datasheet

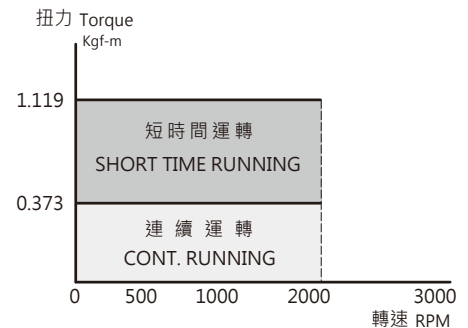
LDSM85-D

項目	Item	符號 Code	單位 Unit	200V
額定輸出	Rated output	PR	kW	1
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 5
額定轉矩	Rated torque	TR	Kgf-m	0.497
額定電流	Rated current	IR	A	6.04
額定轉速	Rated speed	NR	rpm	2000
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	1.491
瞬間最大電流	Instant max. current	IP	A	18.1
最大轉速	Max. speed	Nmax	rpm	3000
轉矩常數	Torque constant	KT	N·m/A	0.81
感應電壓常數	Induction voltage constant	KE	V/k rpm	45
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	4.51
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	18.04
重量 (標準)	Weight (Standard)	W	kg	6



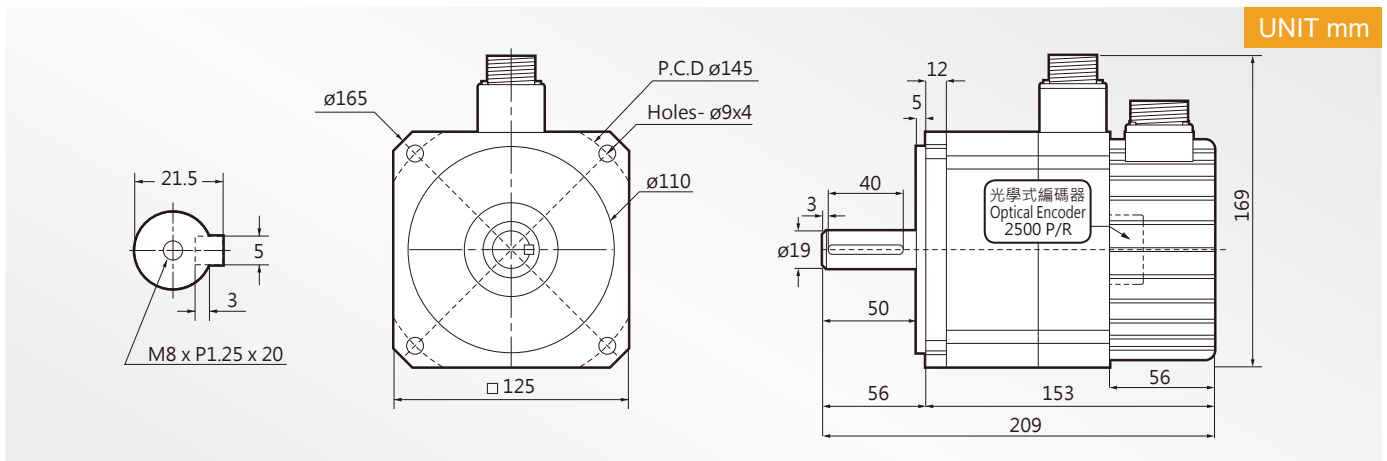
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions

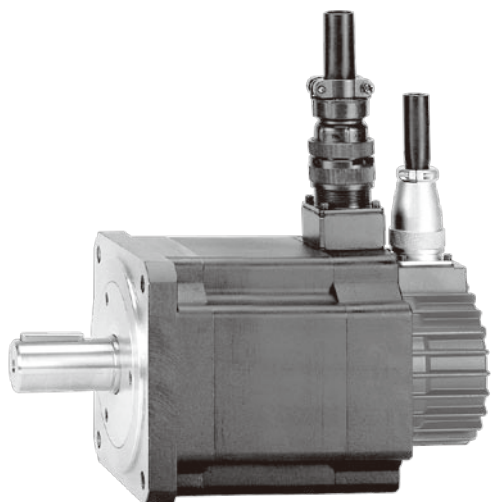


技術資料

Servo Motor Technical Datasheet

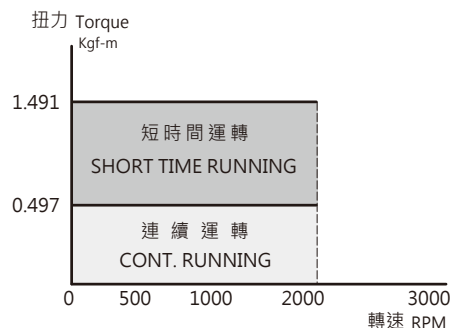
LDSM125-A

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	0.75	0.75
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 5	≥ 5
額定轉矩	Rated torque	TR	Kgf-m	0.373	0.373
額定電流	Rated current	IR	A	3.4	1.7
額定轉速	Rated speed	NR	rpm	2000	2000
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	1.119	1.119
瞬間最大電流	Instant max. current	IP	A	10.2	5.1
最大轉速	Max. speed	Nmax	rpm	3000	3000
轉矩常數	Torque constant	KT	N·m/A	1.08	2.15
感應電壓常數	Induction voltage constant	KE	V/k rpm	60	120
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	7.35	7.35
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	29.4	29.4
重量 (標準)	Weight (Standard)	W	kg	5.5	5.5



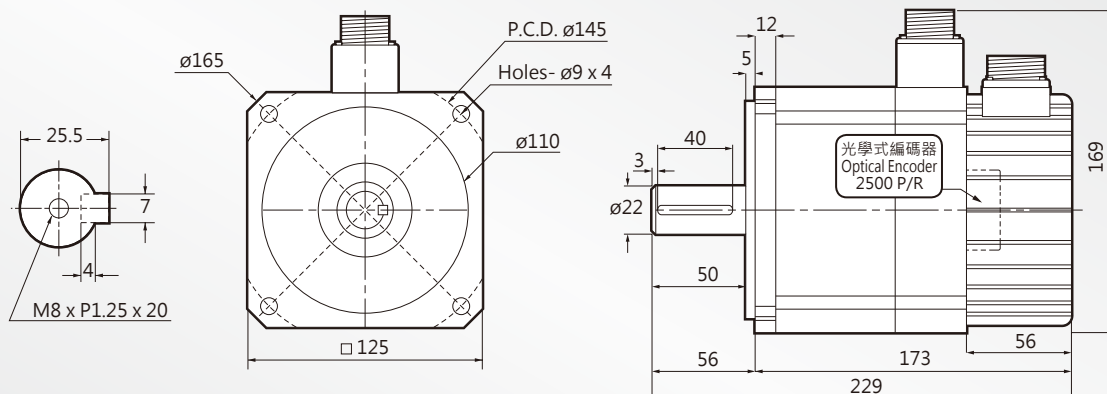
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions



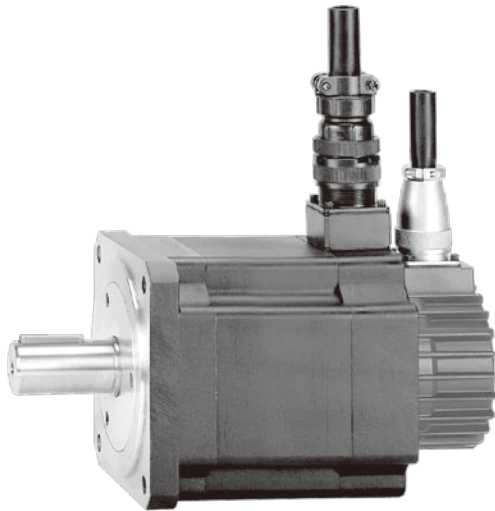
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技術資料

Servo Motor Technical Datasheet

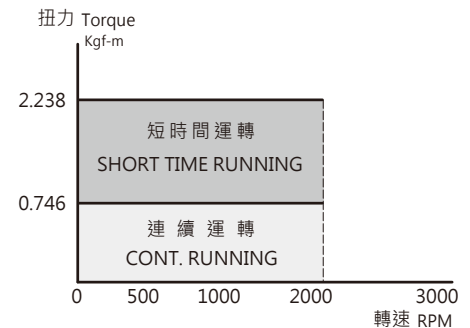
LDSM125-B

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	1	1
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 5	≥ 5
額定轉矩	Rated torque	TR	Kgf-m	0.497	0.497
額定電流	Rated current	IR	A	4.53	2.26
額定轉速	Rated speed	NR	rpm	2000	2000
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	1.491	1.491
瞬間最大電流	Instant max. current	IP	A	13.6	6.79
最大轉速	Max. speed	Nmax	rpm	3000	3000
轉矩常數	Torque constant	KT	N·m/A	1.08	2.15
感應電壓常數	Induction voltage constant	KE	V/k rpm	60	120
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	11.94	11.94
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	47.76	47.76
重量 (標準)	Weight (Standard)	W	kg	6.5	6.5



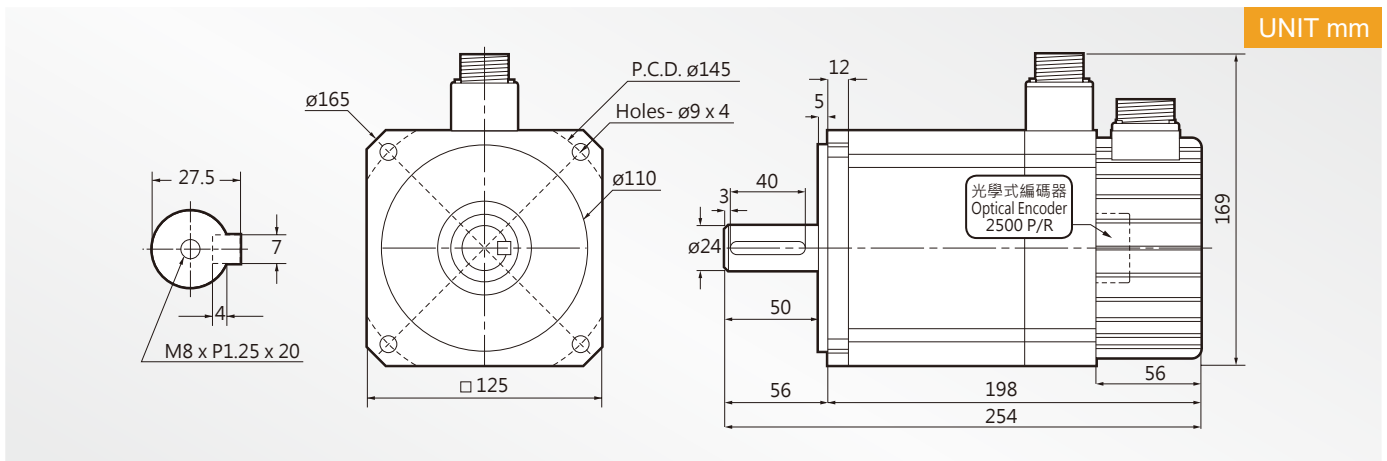
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions

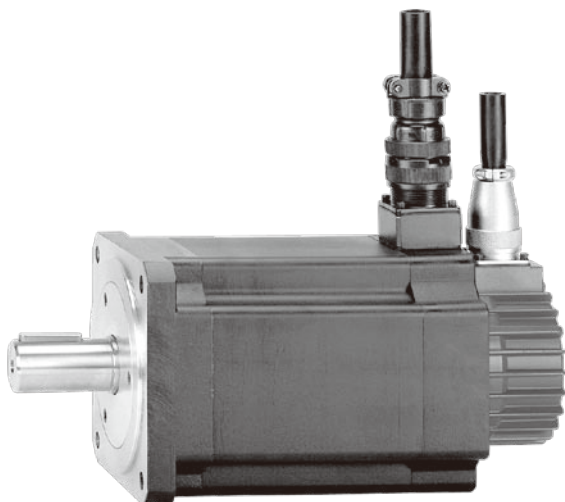


技術資料

Servo Motor Technical Datasheet

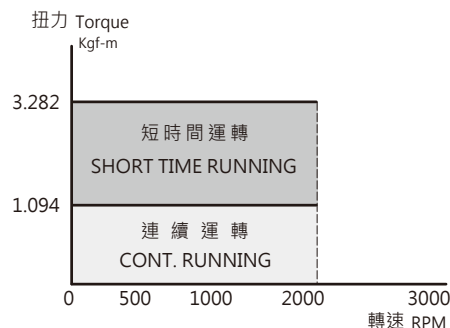
LDSM125-C

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	1.5	1.5
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 10	≥ 5
額定轉矩	Rated torque	TR	Kgf-m	0.746	0.746
額定電流	Rated current	IR	A	6.8	3.4
額定轉速	Rated speed	NR	rpm	2000	2000
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	2.238	2.238
瞬間最大電流	Instant max. current	IP	A	20.4	10.2
最大轉速	Max. speed	Nmax	rpm	3000	3000
轉矩常數	Torque constant	KT	N·m/A	1.08	2.15
感應電壓常數	Induction voltage constant	KE	V/k rpm	60	120
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	17.6	17.6
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	70.4	70.4
重量 (標準)	Weight (Standard)	W	kg	9.4	9.4



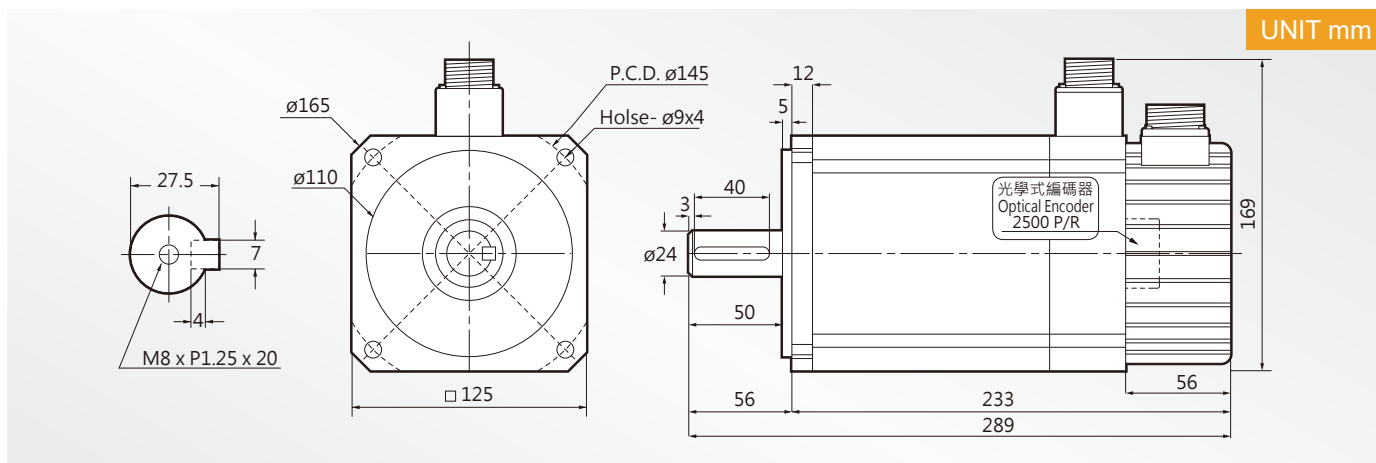
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions

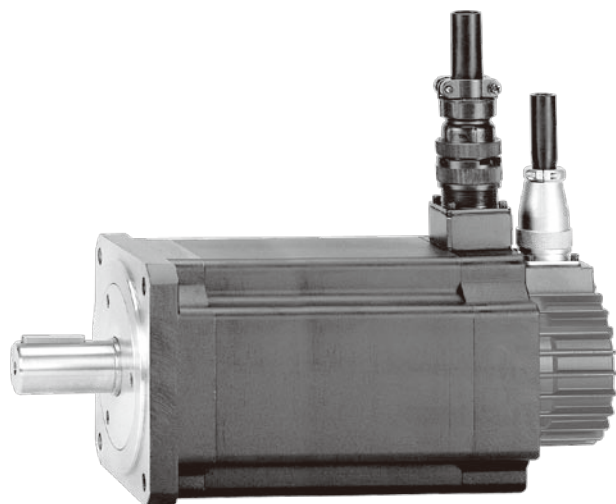


技術資料

Servo Motor Technical Datasheet

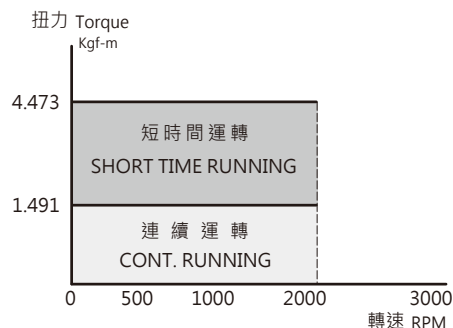
LDSM125-D

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	2.2	2.2
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 10	≥ 5
額定轉矩	Rated torque	TR	Kgf-m	1.094	1.094
額定電流	Rated current	IR	A	9.97	4.98
額定轉速	Rated speed	NR	rpm	2000	2000
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	3.282	3.282
瞬間最大電流	Instant max. current	IP	A	29.9	15
最大轉速	Max. speed	Nmax	rpm	3000	3000
轉矩常數	Torque constant	KT	N·m/A	1.08	2.15
感應電壓常數	Induction voltage constant	KE	V/k rpm	60	120
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	25.72	25.72
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	102.88	102.88
重量 (標準)	Weight (Standard)	W	kg	12.5	12.5



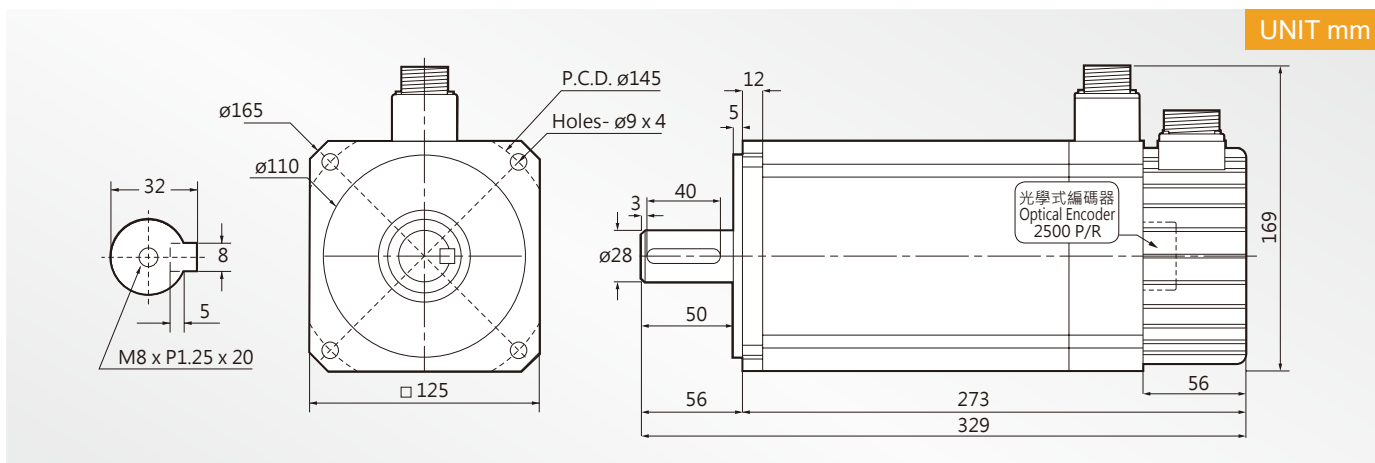
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions

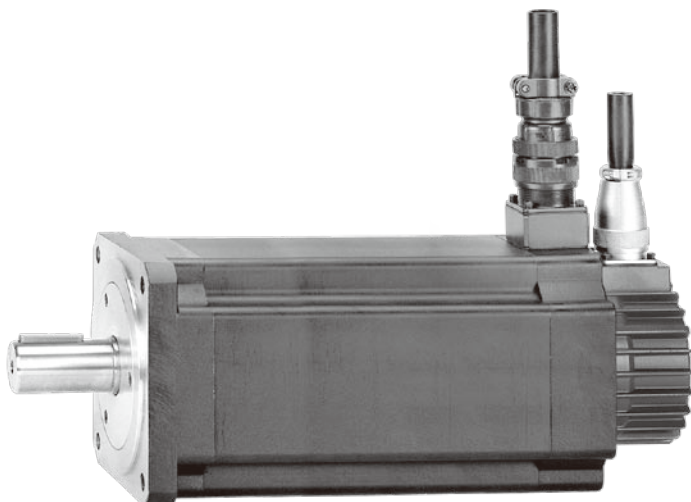


技術資料

Servo Motor Technical Datasheet

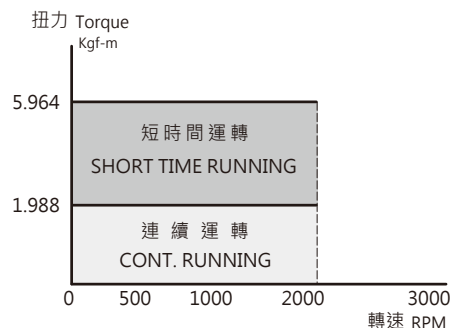
LDSM125-E

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	3	3
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 14	≥ 7
額定轉矩	Rated torque	TR	Kgf-m	1.491	1.491
額定電流	Rated current	IR	A	13.6	6.79
額定轉速	Rated speed	NR	rpm	2000	2000
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	4.473	4.473
瞬間最大電流	Instant max. current	IP	A	40.8	20.4
最大轉速	Max. speed	Nmax	rpm	3000	3000
轉矩常數	Torque constant	KT	N·m/A	1.08	2.15
感應電壓常數	Induction voltage constant	KE	V/k rpm	60	120
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	34.9	34.9
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	139.6	139.6
重量 (標準)	Weight (Standard)	W	kg	16	16



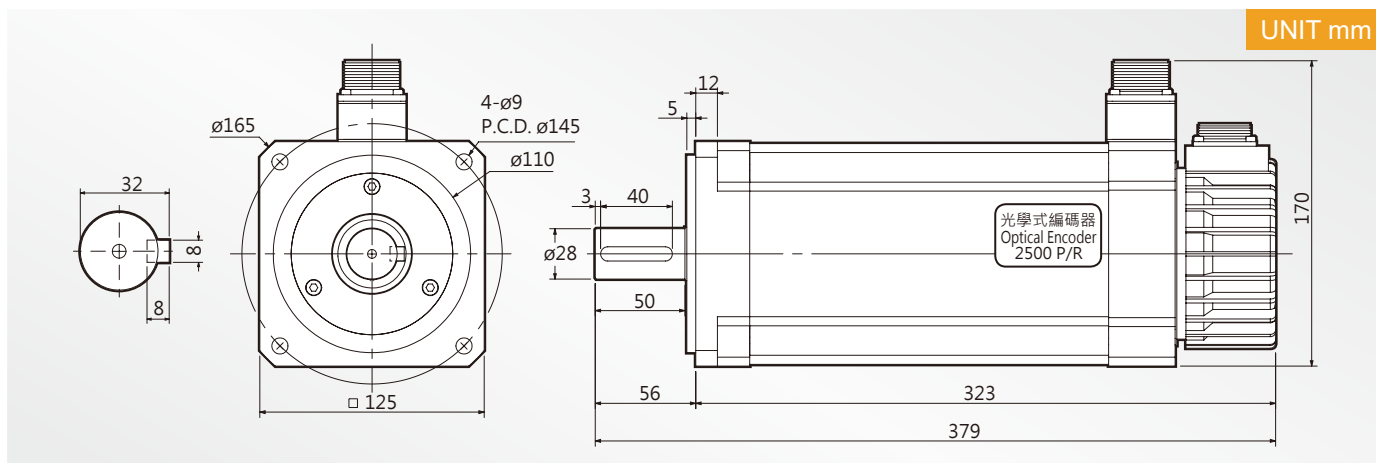
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions

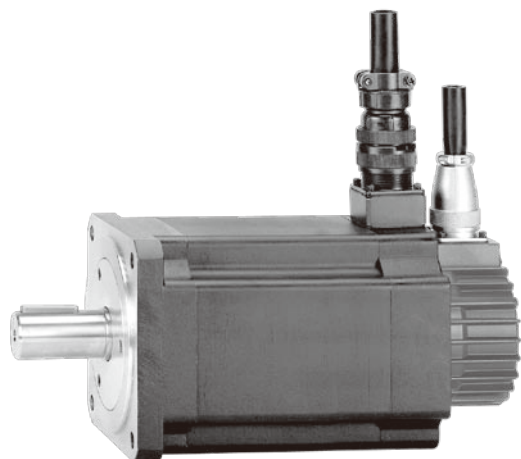


技術資料

Servo Motor Technical Datasheet

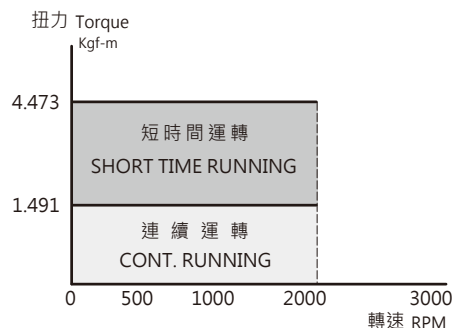
LDSM125-F

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	4	4
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 18	≥ 9
額定轉矩	Rated torque	TR	Kgf-m	1.988	1.988
額定電流	Rated current	IR	A	18.1	9.06
額定轉速	Rated speed	NR	rpm	2000	2000
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	5.964	5.964
瞬間最大電流	Instant max. current	IP	A	54.3	27.2
最大轉速	Max. speed	Nmax	rpm	3000	3000
轉矩常數	Torque constant	KT	N·m/A	1.08	2.15
感應電壓常數	Induction voltage constant	KE	V/k rpm	60	120
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	46.39	46.39
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	185.56	185.56
重量 (標準)	Weight (Standard)	W	kg	28	28



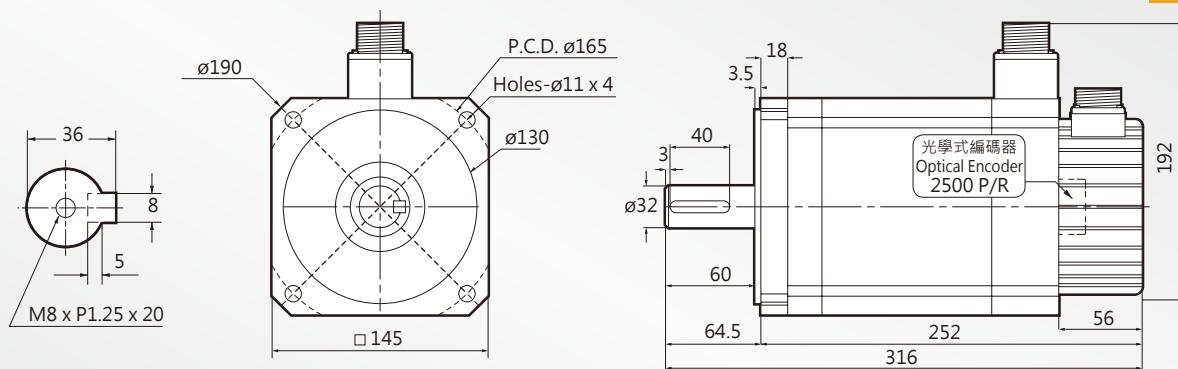
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions



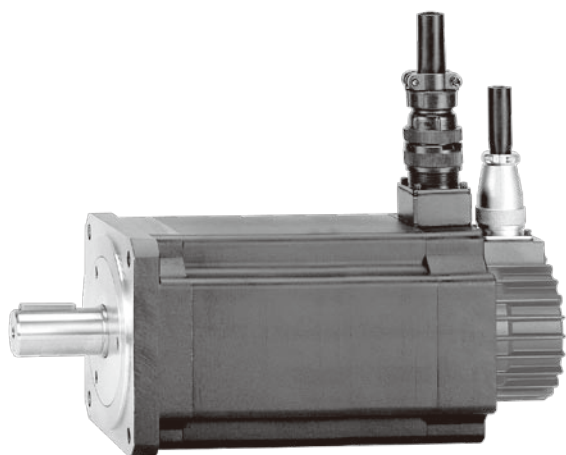
UNIT mm

技術資料

Servo Motor Technical Datasheet

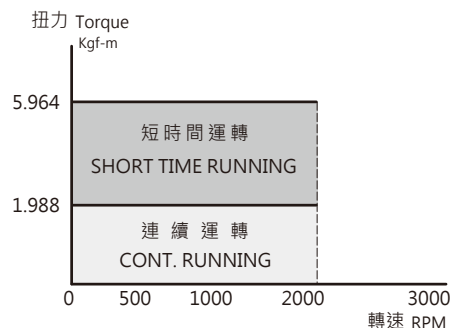
LDSM145-A

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	3	3
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 13	≥ 7
額定轉矩	Rated torque	TR	Kgf-m	1.491	1.491
額定電流	Rated current	IR	A	13.6	6.79
額定轉速	Rated speed	NR	rpm	2000	2000
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	4.473	4.473
瞬間最大電流	Instant max. current	IP	A	40.8	20.4
最大轉速	Max. speed	Nmax	rpm	3000	3000
轉矩常數	Torque constant	KT	N·m/A	1.08	2.15
感應電壓常數	Induction voltage constant	KE	V/k rpm	60	120
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	73.21	73.21
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	292.84	292.84
重量 (標準)	Weight (Standard)	W	kg	18	18



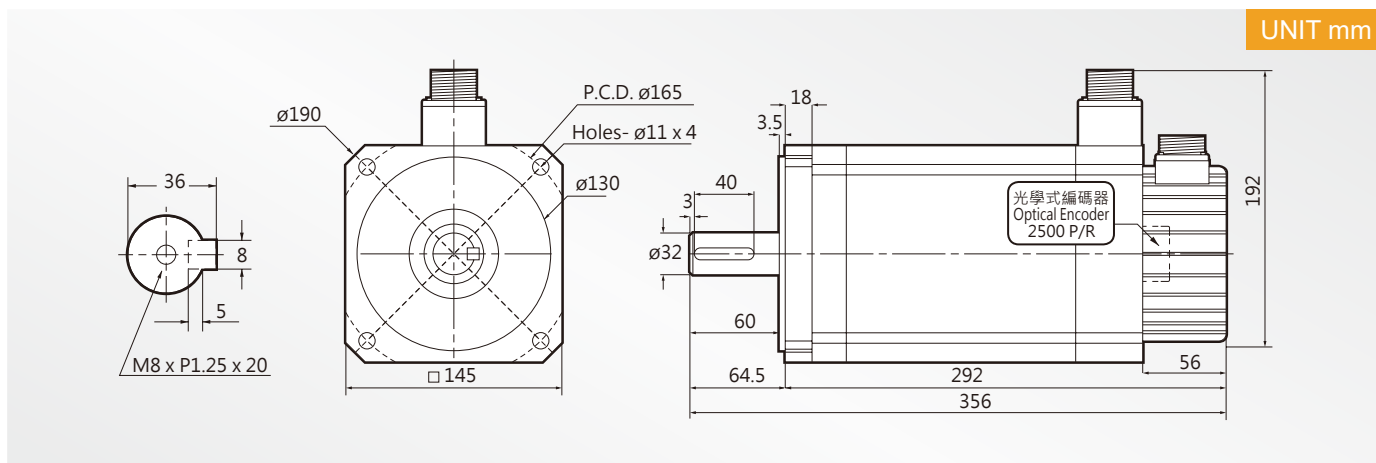
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions

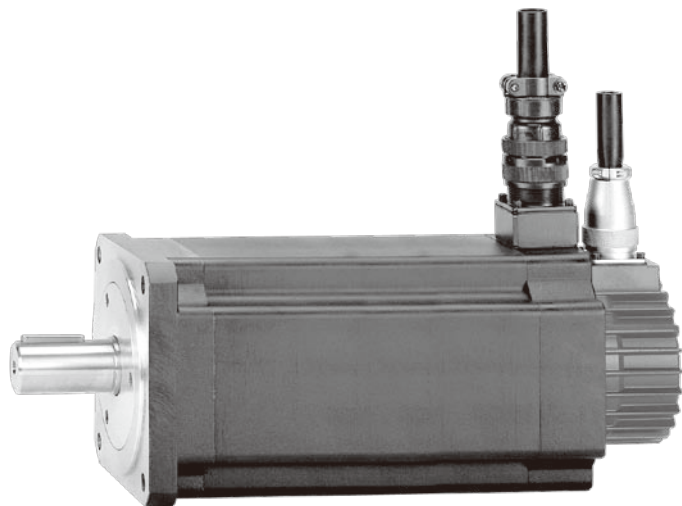


技術資料

Servo Motor Technical Datasheet

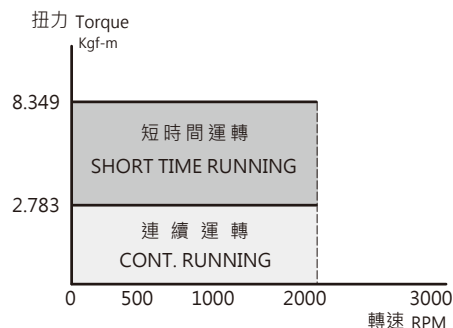
LDSM145-B

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	4	4
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 18	≥ 9
額定轉矩	Rated torque	TR	Kgf-m	1.988	1.988
額定電流	Rated current	IR	A	18.1	9.06
額定轉速	Rated speed	NR	rpm	2000	2000
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	5.964	5.964
瞬間最大電流	Instant max. current	IP	A	54.3	27.2
最大轉速	Max. speed	Nmax	rpm	3000	3000
轉矩常數	Torque constant	KT	N·m/A	1.08	2.15
感應電壓常數	Induction voltage constant	KE	V/k rpm	60	120
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	97.13	97.13
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	388.52	388.52
重量 (標準)	Weight (Standard)	W	kg	25	25



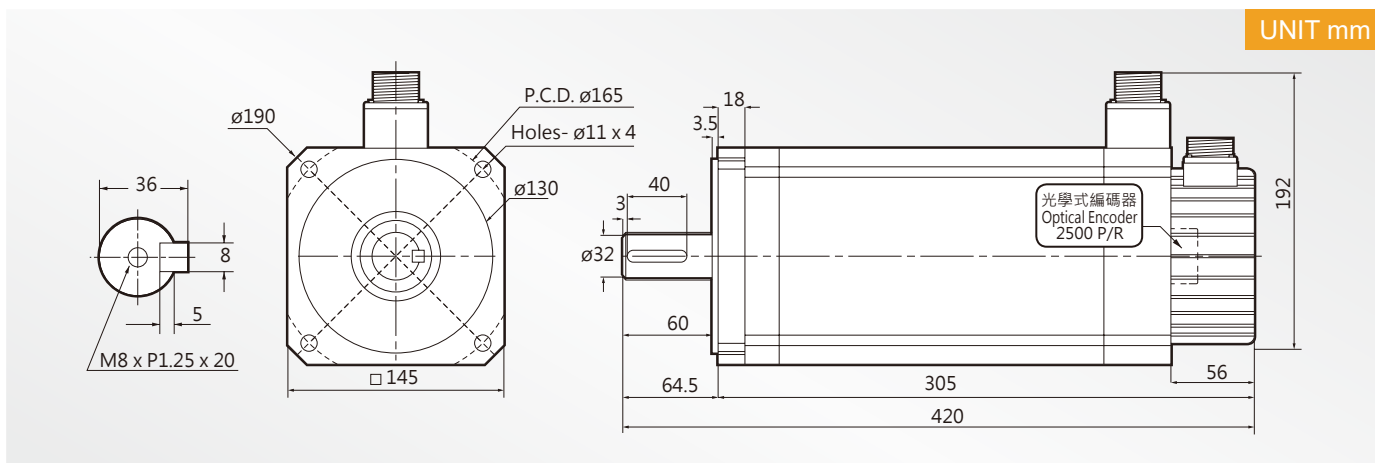
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions

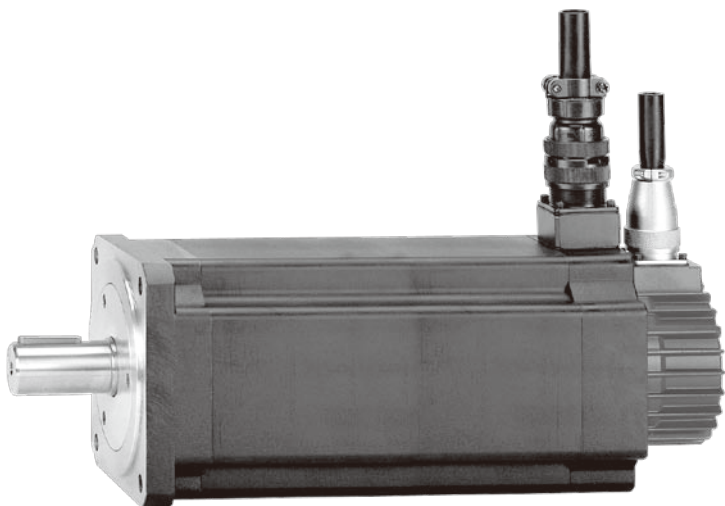


技術資料

Servo Motor Technical Datasheet

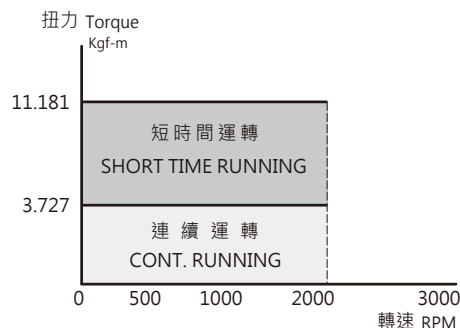
LDSM145-C

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	5.6	5.6
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 25	≥ 13
額定轉矩	Rated torque	TR	Kgf-m	2.783	2.783
額定電流	Rated current	IR	A	25.4	12.7
額定轉速	Rated speed	NR	rpm	2000	2000
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	8.349	8.349
瞬間最大電流	Instant max. current	IP	A	76.1	38
最大轉速	Max. speed	Nmax	rpm	3000	3000
轉矩常數	Torque constant	KT	N·m/A	1.08	2.15
感應電壓常數	Induction voltage constant	KE	V/k rpm	60	120
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	135.39	135.39
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	541.56	541.56
重量 (標準)	Weight (Standard)	W	kg	35	35



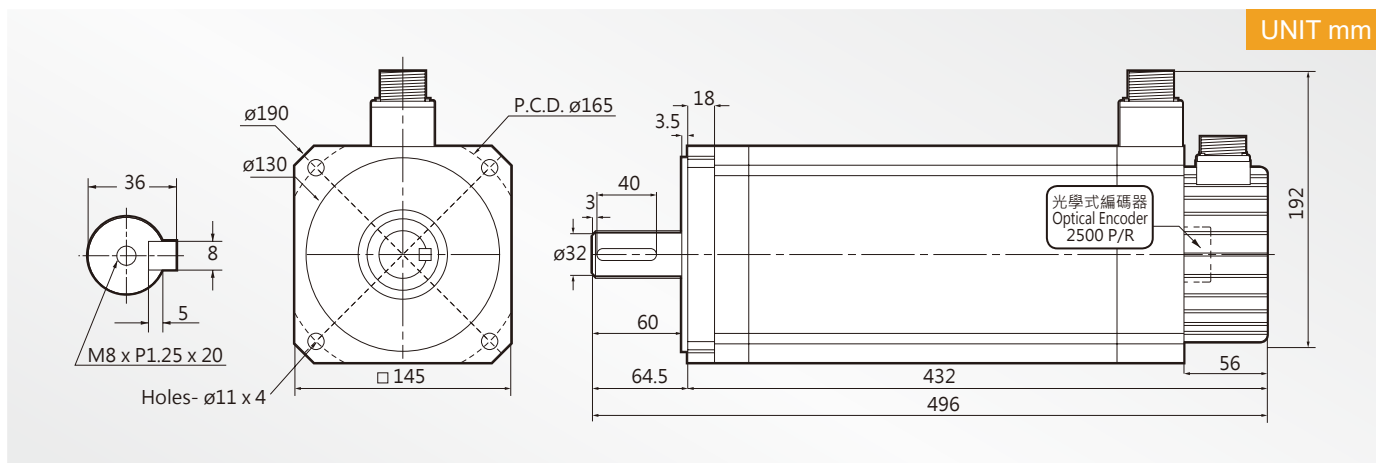
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions



技術資料

Servo Motor Technical Datasheet

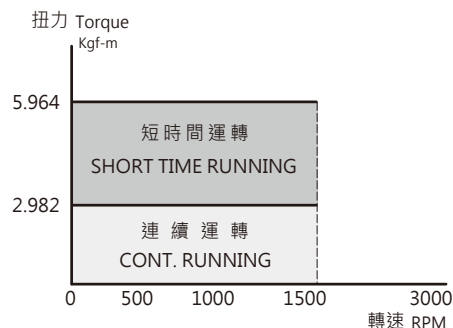
LDSM145-D

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	7.5	7.5
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 32	≥ 17
額定轉矩	Rated torque	TR	Kgf-m	3.727	3.727
額定電流	Rated current	IR	A	34	17
額定轉速	Rated speed	NR	rpm	2000	2000
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	11.181	11.181
瞬間最大電流	Instant max. current	IP	A	102	50.9
最大轉速	Max. speed	Nmax	rpm	3000	3000
轉矩常數	Torque constant	KT	N·m/A	1.08	2.15
感應電壓常數	Induction voltage constant	KE	V/k rpm	60	120
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	180.83	180.83
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	723.32	723.32
重量 (標準)	Weight (Standard)	W	kg	45	45



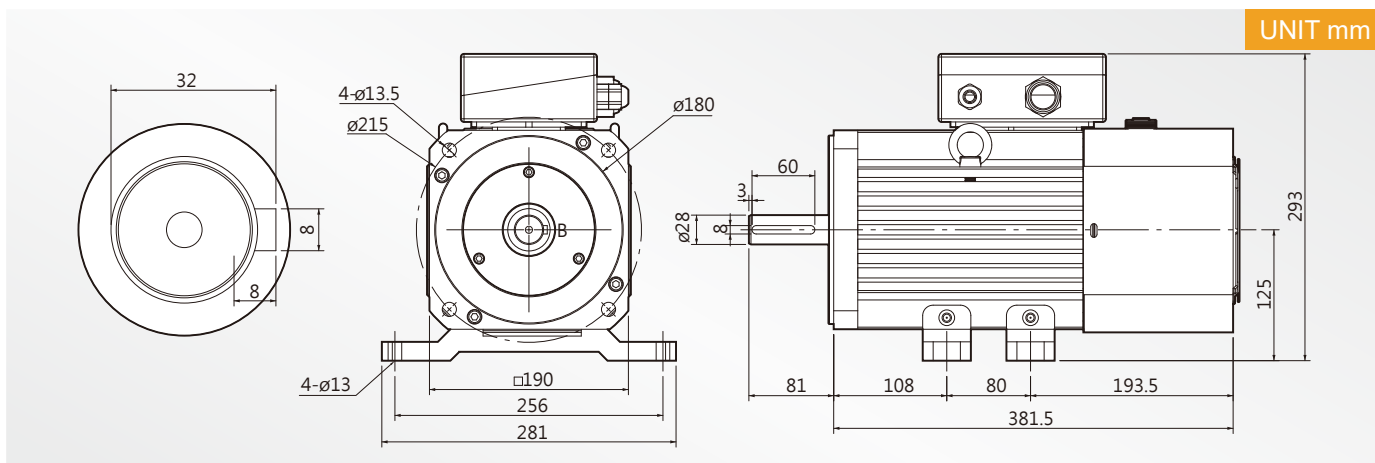
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions



UNIT mm

技術資料

Servo Motor Technical Datasheet

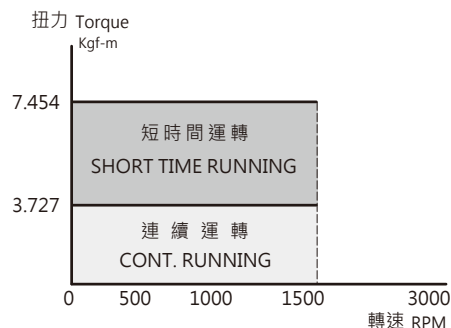
LDSM190-A

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	4.5	4.5
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 18	≥ 9
額定轉矩	Rated torque	TR	Kgf-m	2.982	2.982
額定電流	Rated current	IR	A	17.5	8.58
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	5.964	5.964
瞬間最大電流	Instant max. current	IP	A	35.1	17.2
最大轉速	Max. speed	Nmax	rpm	2100	2100
轉矩常數	Torque constant	KT	N·m/A	1.67	3.41
感應電壓常數	Induction voltage constant	KE	V/k rpm	93	190
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	87.41	87.41
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	349.64	349.64
重量 (標準)	Weight (Standard)	W	kg	38	38



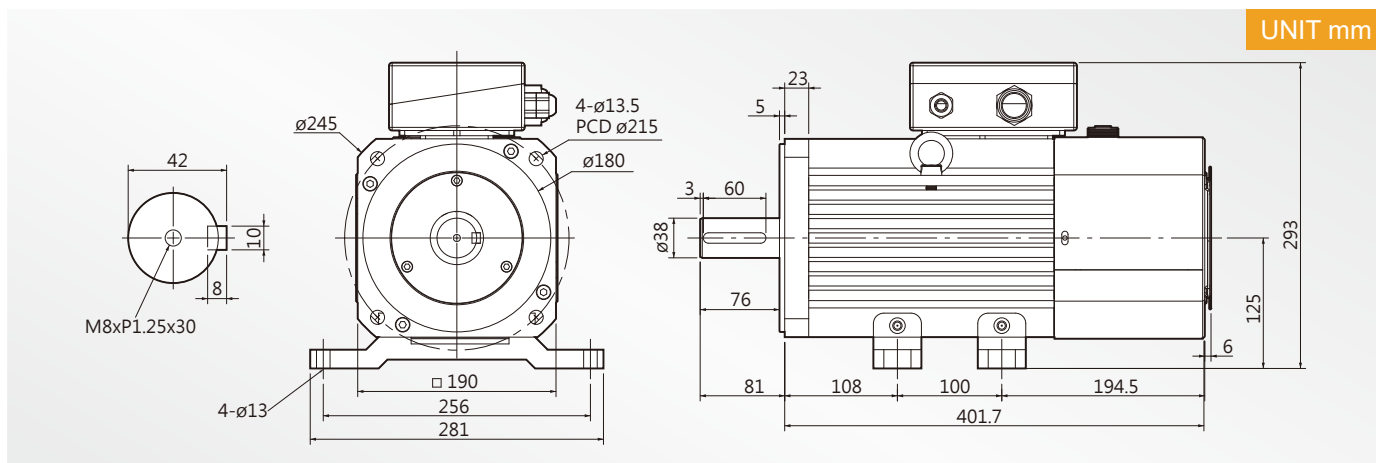
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions



技術資料

Servo Motor Technical Datasheet

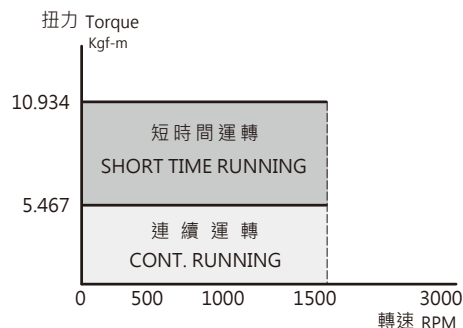
LDSM190-B

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	5.5	5.5
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 21	≥ 11
額定轉矩	Rated torque	TR	Kgf-m	3.727	3.727
額定電流	Rated current	IR	A	21.7	10.7
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	7.454	7.454
瞬間最大電流	Instant max. current	IP	A	43.5	21.4
最大轉速	Max. speed	Nmax	rpm	2100	2100
轉矩常數	Torque constant	KT	N·m/A	1.67	3.41
感應電壓常數	Induction voltage constant	KE	V/k rpm	93	190
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	102.12	102.12
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	408.48	408.48
重量 (標準)	Weight (Standard)	W	kg	43	43



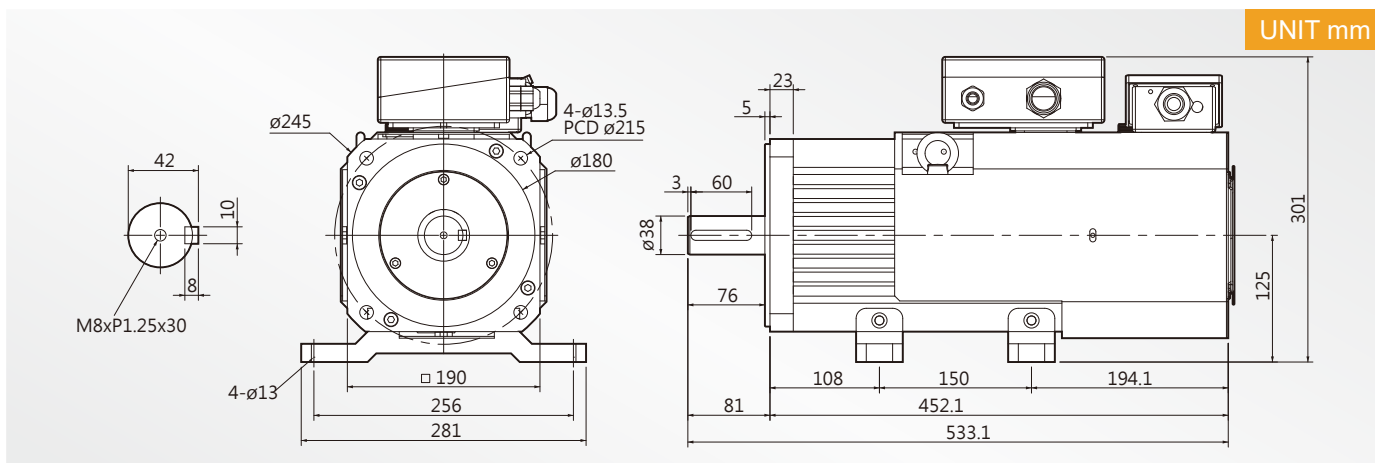
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions



UNIT mm

技術資料

Servo Motor Technical Datasheet

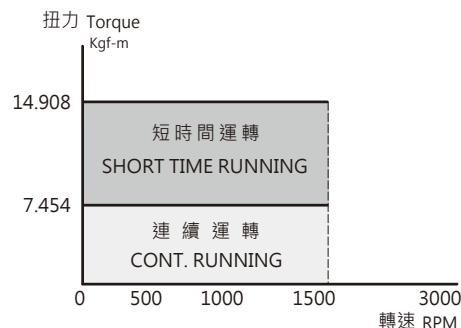
LDSM190-C

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	8.2	8.2
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 32	≥ 16
額定轉矩	Rated torque	TR	Kgf-m	5.467	5.467
額定電流	Rated current	IR	A	32.1	15.7
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	10.934	10.934
瞬間最大電流	Instant max. current	IP	A	64.3	31.5
最大轉速	Max. speed	Nmax	rpm	2100	2100
轉矩常數	Torque constant	KT	N·m/A	1.67	3.41
感應電壓常數	Induction voltage constant	KE	V/k rpm	93	190
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	138.9	138.9
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	555.6	555.6
重量 (標準)	Weight (Standard)	W	kg	53	53



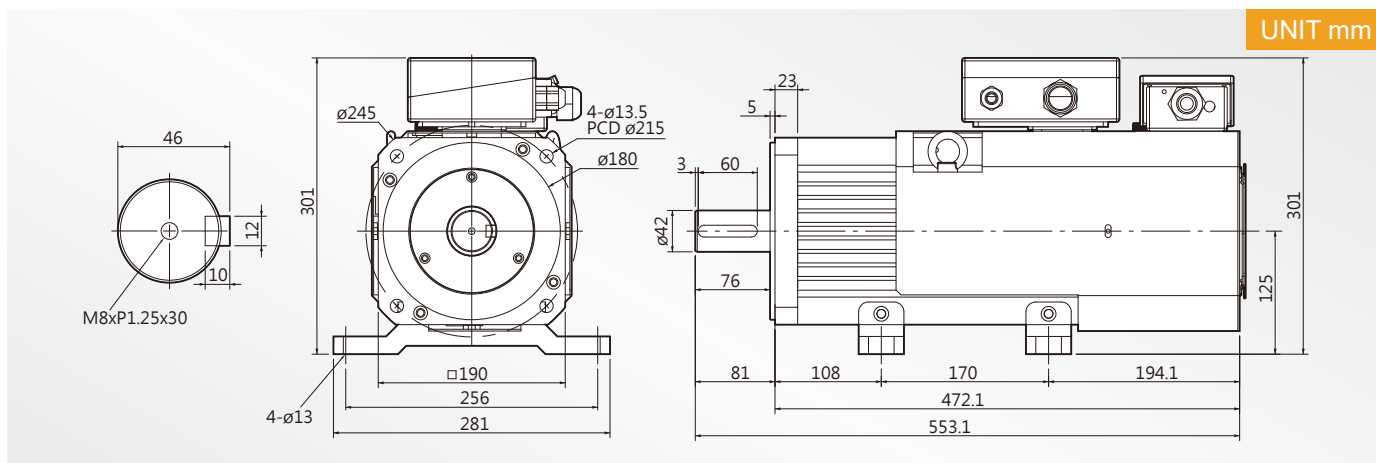
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions



技術資料

Servo Motor Technical Datasheet

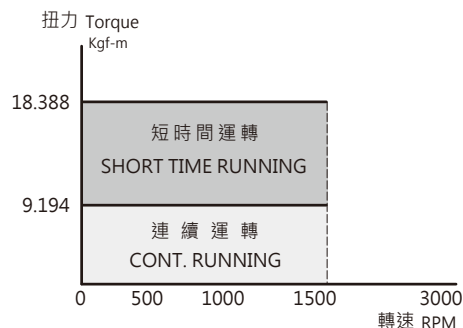
LDSM190-D

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	11.2	11.2
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 85	≥ 43
額定轉矩	Rated torque	TR	Kgf-m	7.454	7.454
額定電流	Rated current	IR	A	43.8	21.4
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	14.908	14.908
瞬間最大電流	Instant max. current	IP	A	87.6	42.9
最大轉速	Max. speed	Nmax	rpm	2100	2100
轉矩常數	Torque constant	KT	N·m/A	1.67	3.41
感應電壓常數	Induction voltage constant	KE	V/k rpm	93	190
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	153.61	153.61
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	614.44	614.44
重量 (標準)	Weight (Standard)	W	kg	57	57



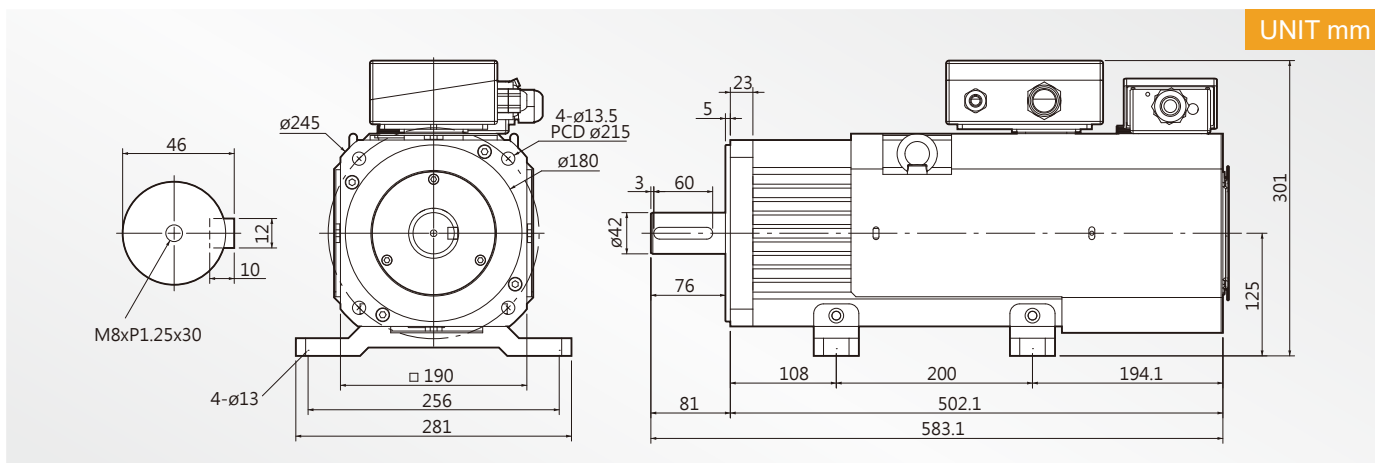
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions



技術資料

Servo Motor Technical Datasheet

LDSM190-K

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	13.9	13.9
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 53	≥ 27
額定轉矩	Rated torque	TR	Kgf-m	9.194	9.194
額定電流	Rated current	IR	A	54.1	26.5
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	18.388	18.388
瞬間最大電流	Instant max. current	IP	A	108	52.9
最大轉速	Max. speed	Nmax	rpm	2100	2100
轉矩常數	Torque constant	KT	N·m/A	1.67	3.41
感應電壓常數	Induction voltage constant	KE	V/k rpm	93	190
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	175.68	175.68
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	702.72	702.72
重量 (標準)	Weight (Standard)	W	kg	60	60

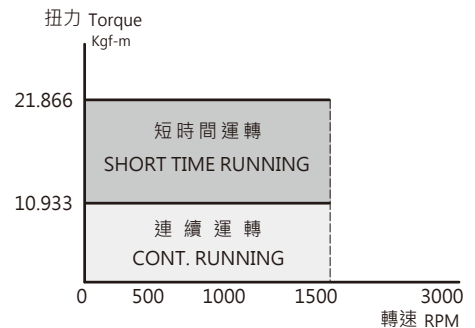
LDSM 190-E

永磁同步伺服馬達
Permanent Magnetic Synchronous Servo Motors



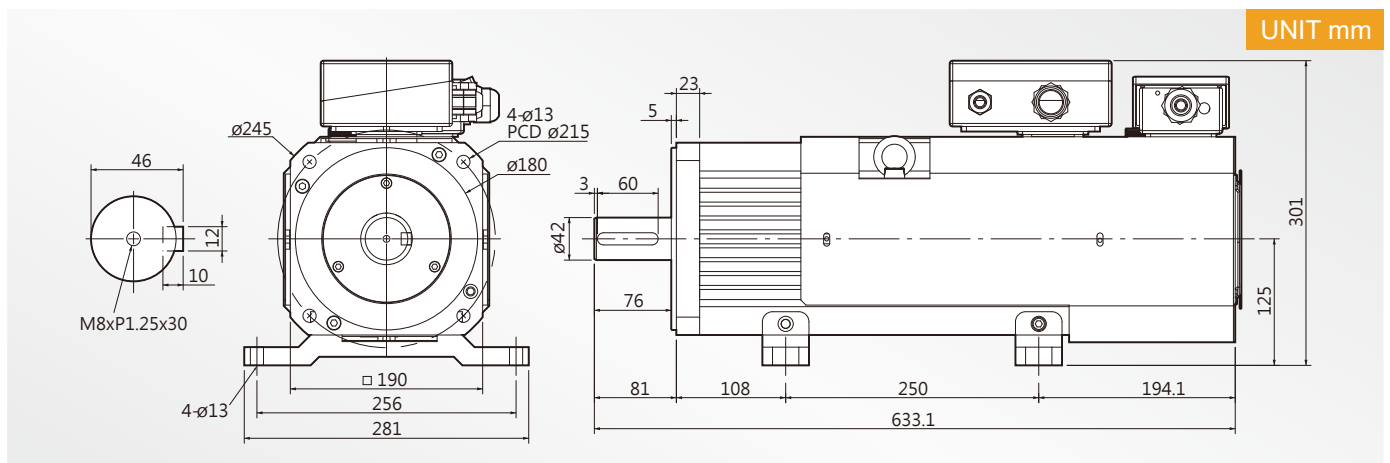
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions



技術資料

Servo Motor Technical Datasheet

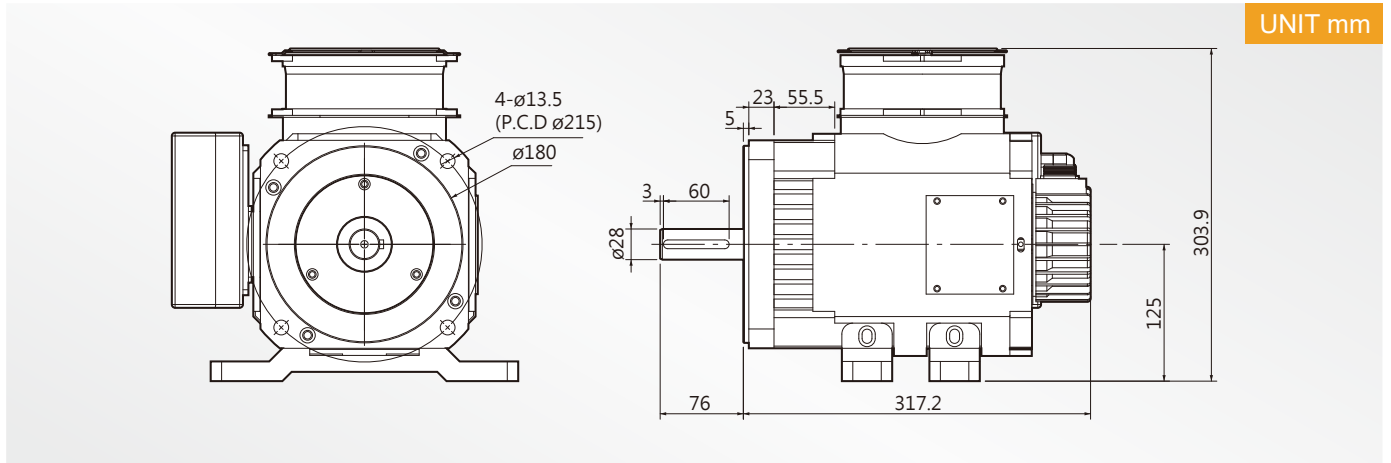
LDSM190-E

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	16.5	16.5
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 63	≥ 32
額定轉矩	Rated torque	TR	Kgf-m	10.933	10.933
額定電流	Rated current	IR	A	64.3	31.5
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	21.866	21.866
瞬間最大電流	Instant max. current	IP	A	129	62.9
最大轉速	Max. speed	Nmax	rpm	2100	2100
轉矩常數	Torque constant	KT	N·m/A	1.67	3.41
感應電壓常數	Induction voltage constant	KE	V/k rpm	93	190
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	212.46	212.46
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	849.84	849.84
重量 (標準)	Weight (Standard)	W	kg	67	67

外觀尺寸圖

Dimensions

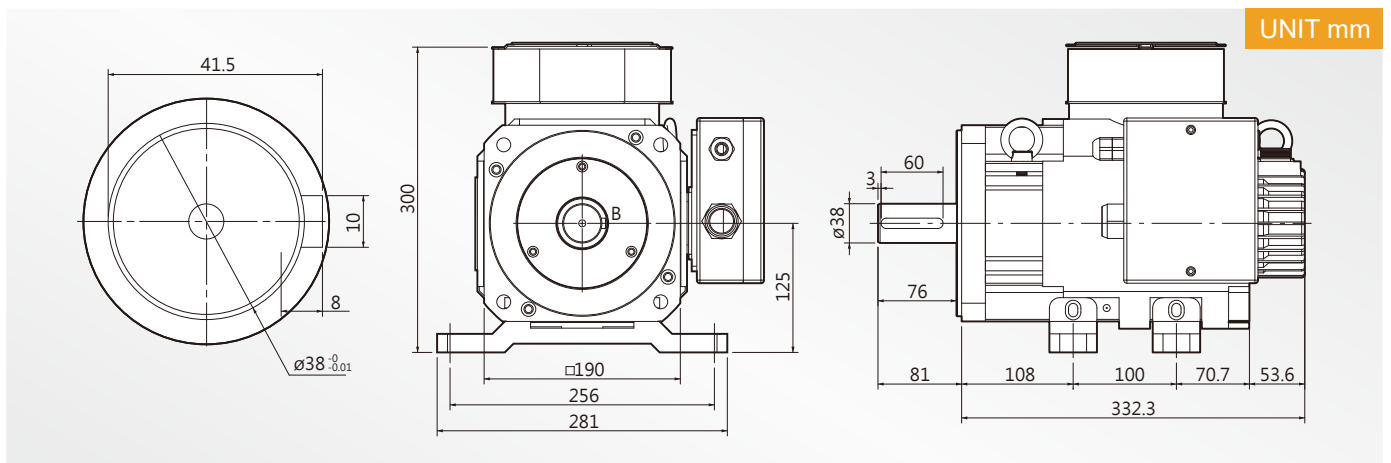
上風罩 LDFM 190-A



外觀尺寸圖

Dimensions

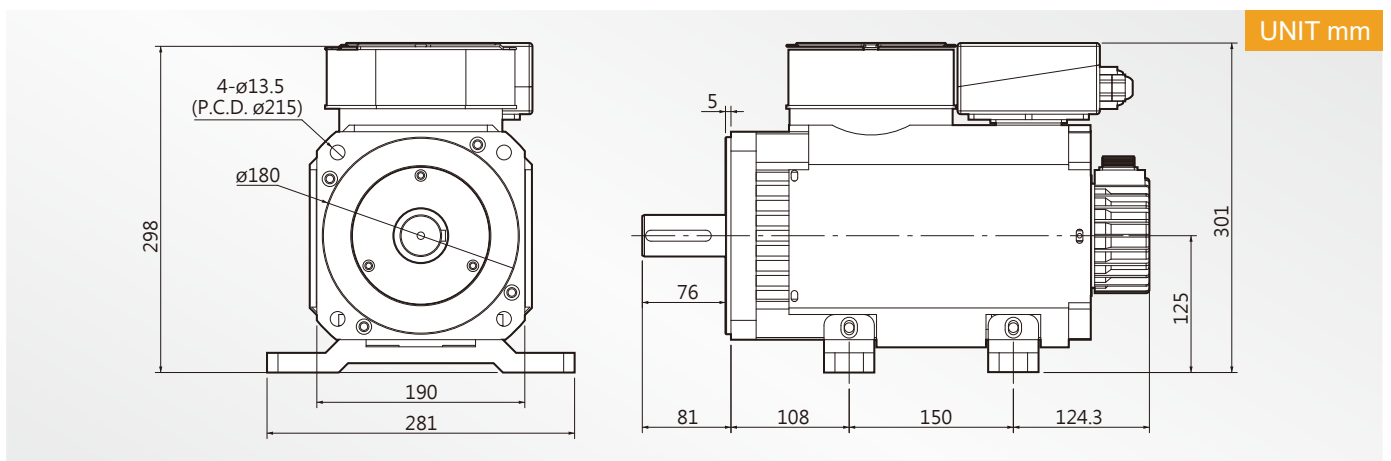
上風罩 LDFM 190-B



外觀尺寸圖

Dimensions

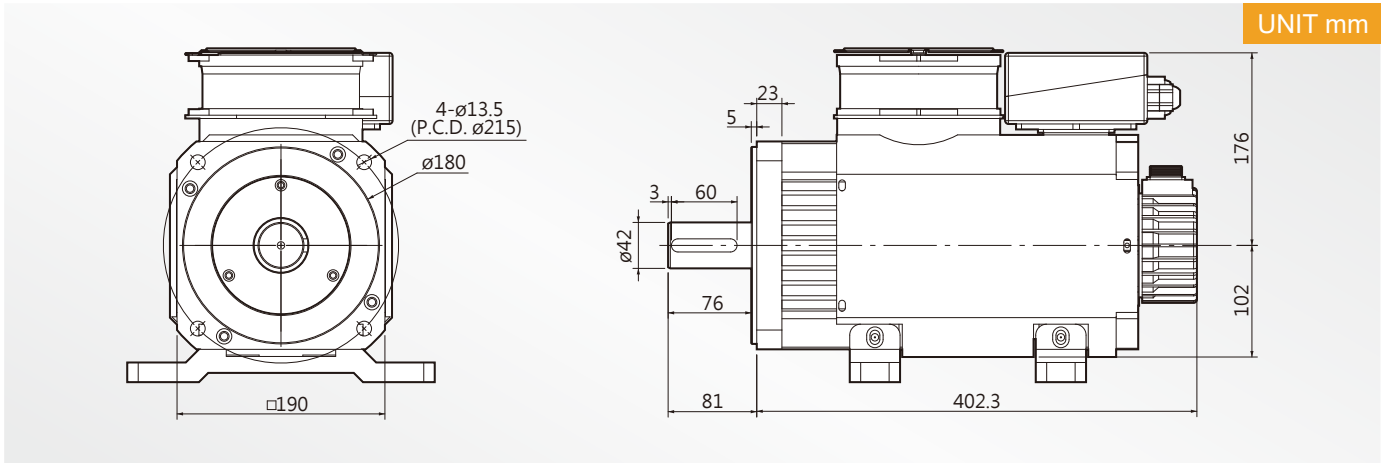
上風罩 LDFM 190-C



外觀尺寸圖

Dimensions

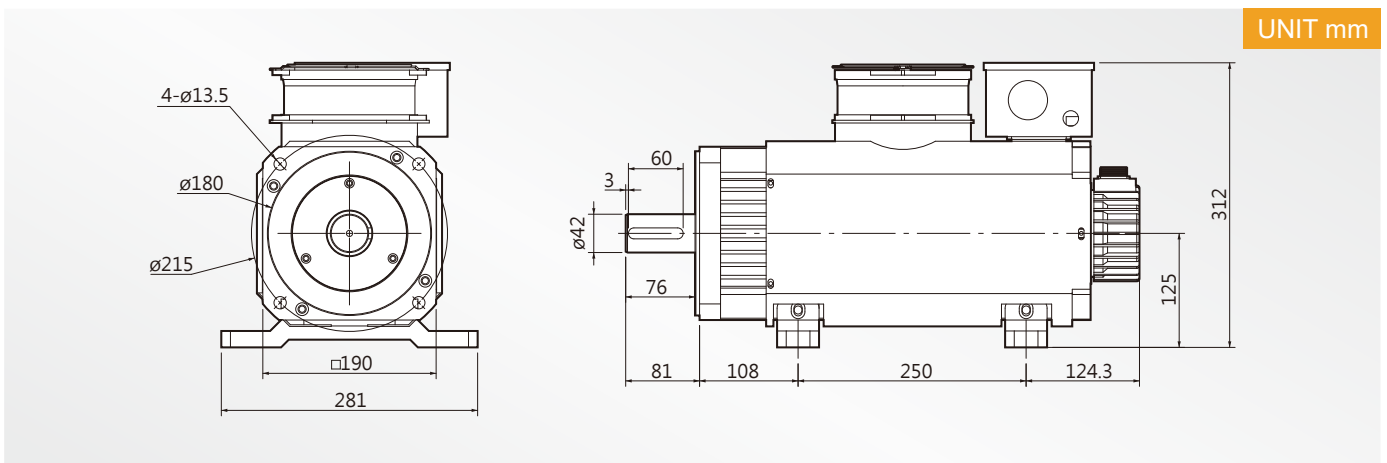
上風罩 LDFM 190-D



外觀尺寸圖

Dimensions

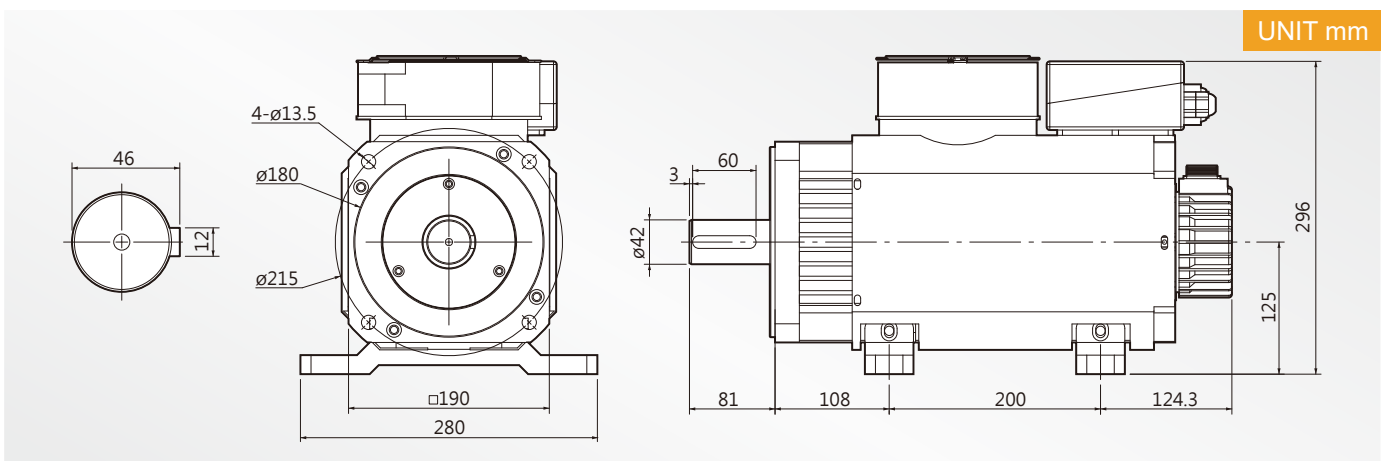
上風罩 LDFM 190-E



外觀尺寸圖

Dimensions

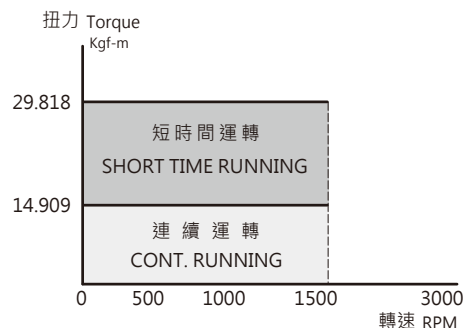
上風罩 LDFM 190-K





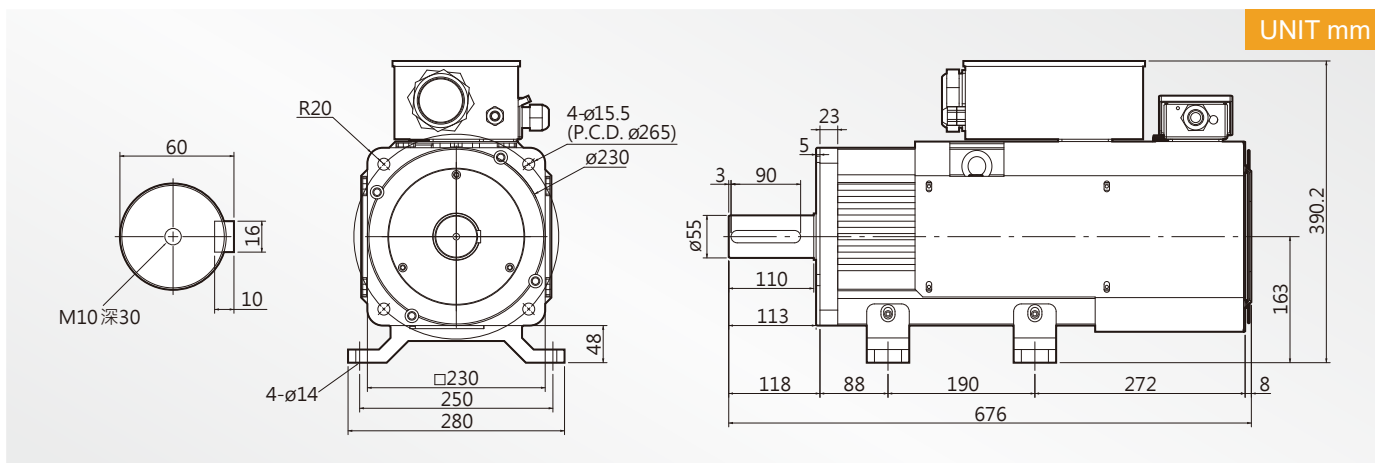
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions



UNIT mm

技術資料

Servo Motor Technical Datasheet

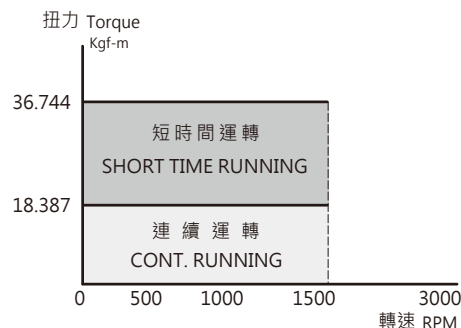
LDSM230-E

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	22.4	22.4
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 86	≥ 43
額定轉矩	Rated torque	TR	Kgf-m	14.909	14.909
額定電流	Rated current	IR	A	87.7	42.9
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	29.818	29.818
瞬間最大電流	Instant max. current	IP	A	175	85.8
最大轉速	Max. speed	Nmax	rpm	2100	2100
轉矩常數	Torque constant	KT	N·m/A	1.67	3.41
感應電壓常數	Induction voltage constant	KE	V/k rpm	93	190
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	348.1	348.1
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	1392.4	1392.4
重量 (標準)	Weight (Standard)	W	kg	90	90



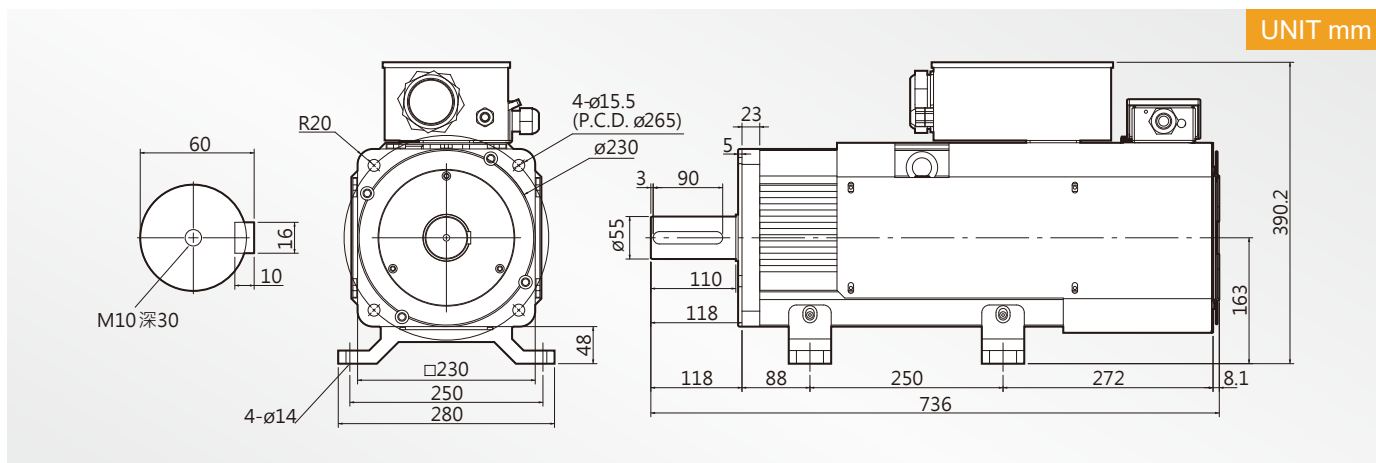
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions



技術資料

Servo Motor Technical Datasheet

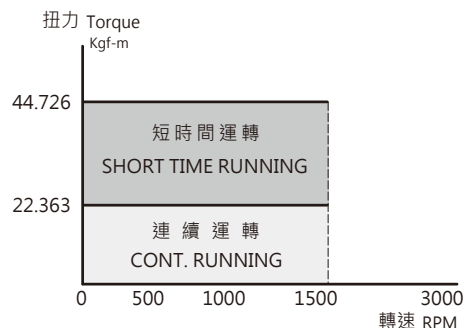
LDSM230-F

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	27.7	27.7
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 106	≥ 53
額定轉矩	Rated torque	TR	Kgf-m	18.387	18.387
額定電流	Rated current	IR	A	108	52.9
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	36.744	36.744
瞬間最大電流	Instant max. current	IP	A	216	106
最大轉速	Max. speed	Nmax	rpm	2100	2100
轉矩常數	Torque constant	KT	N·m/A	1.67	3.41
感應電壓常數	Induction voltage constant	KE	V/k rpm	93	190
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	437.2	437.2
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	1748.8	1748.8
重量 (標準)	Weight (Standard)	W	kg	104	104



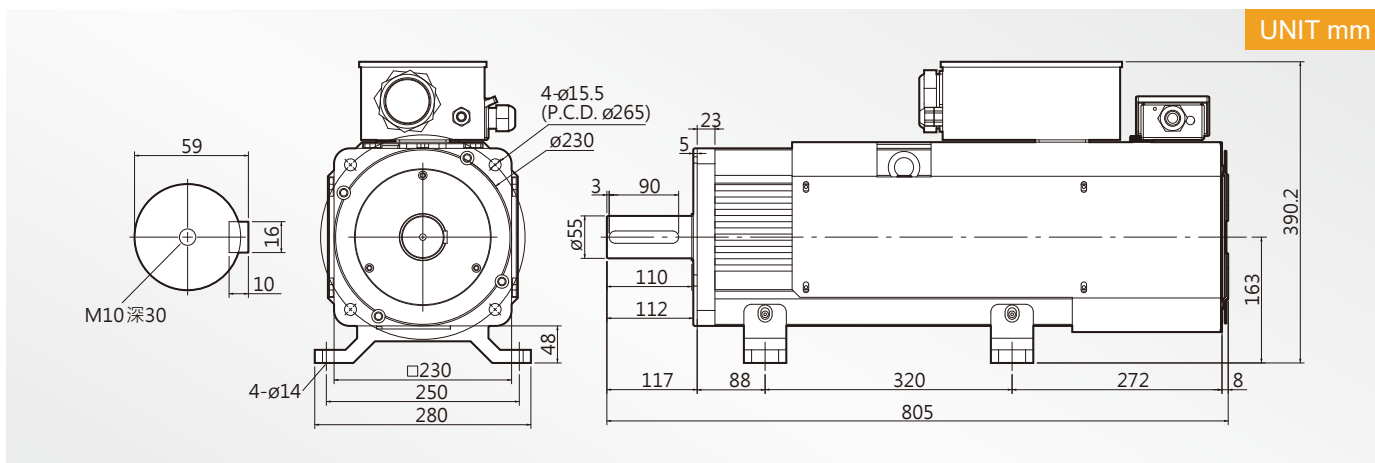
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions



UNIT mm

技術資料

Servo Motor Technical Datasheet

LDSM230-G

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	33.7	33.7
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 84	42
額定轉矩	Rated torque	TR	Kgf-m	22.363	22.363
額定電流	Rated current	IR	A	131	64.4
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	44.726	44.726
瞬間最大電流	Instant max. current	IP	A	263	129
最大轉速	Max. speed	Nmax	rpm	2100	2100
轉矩常數	Torque constant	KT	N·m/A	1.67	3.41
感應電壓常數	Induction voltage constant	KE	V/k rpm	93	190
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	541.1	541.1
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	2164.4	2164.4
重量 (標準)	Weight (Standard)	W	kg	120	120

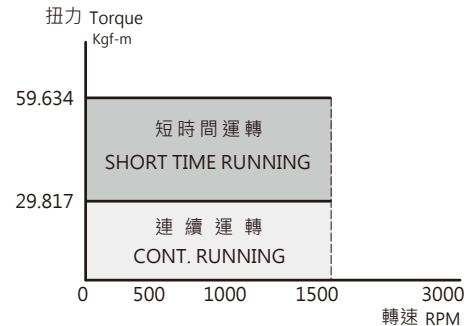
LDSM 230-H

永磁同步伺服馬達
Permanent Magnetic Synchronous Servo Motors



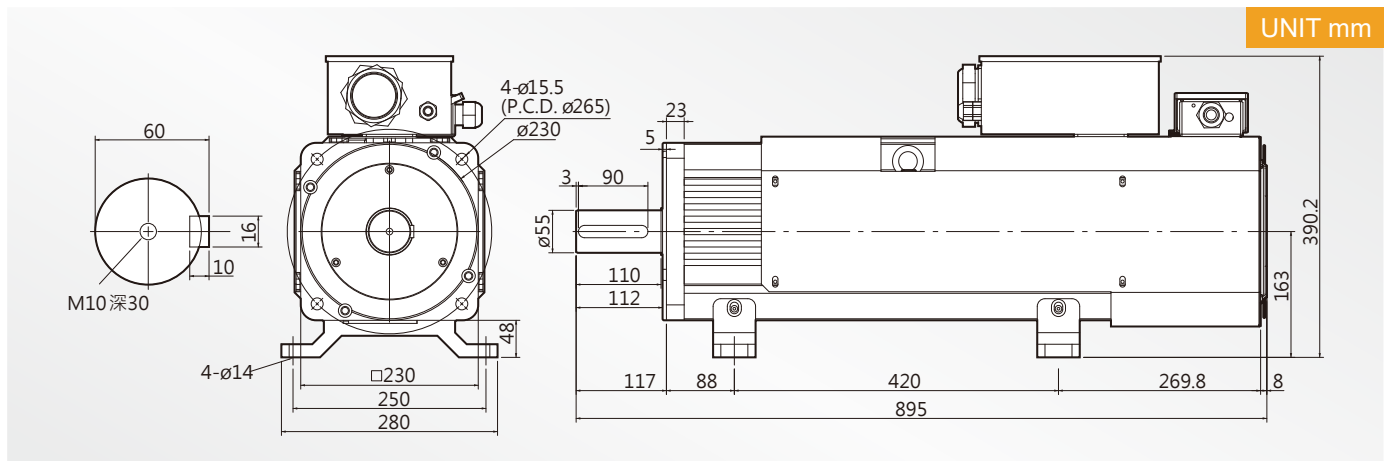
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions



技術資料

Servo Motor Technical Datasheet

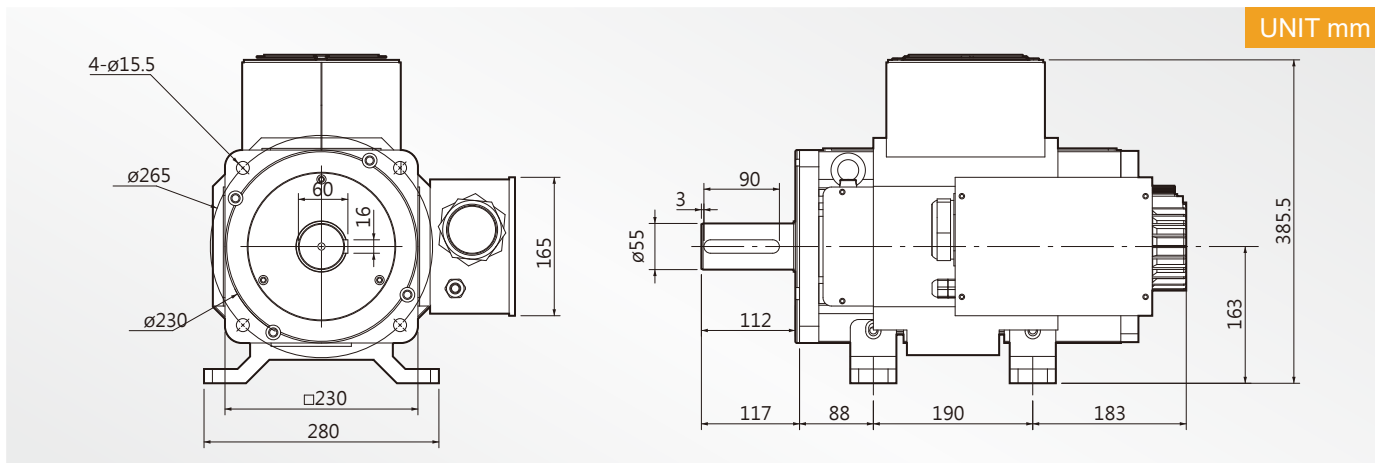
LDSM230-H

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	45	45
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 170	≥ 85
額定轉矩	Rated torque	TR	Kgf-m	29.817	29.817
額定電流	Rated current	IR	A	175	85.8
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	59.634	59.634
瞬間最大電流	Instant max. current	IP	A	351	172
最大轉速	Max. speed	Nmax	rpm	2100	2100
轉矩常數	Torque constant	KT	N·m/A	1.67	3.41
感應電壓常數	Induction voltage constant	KE	V/k rpm	93	190
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	674.7	674.7
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	2698.8	2698.8
重量 (標準)	Weight (Standard)	W	kg	140	140

外觀尺寸圖

Dimensions

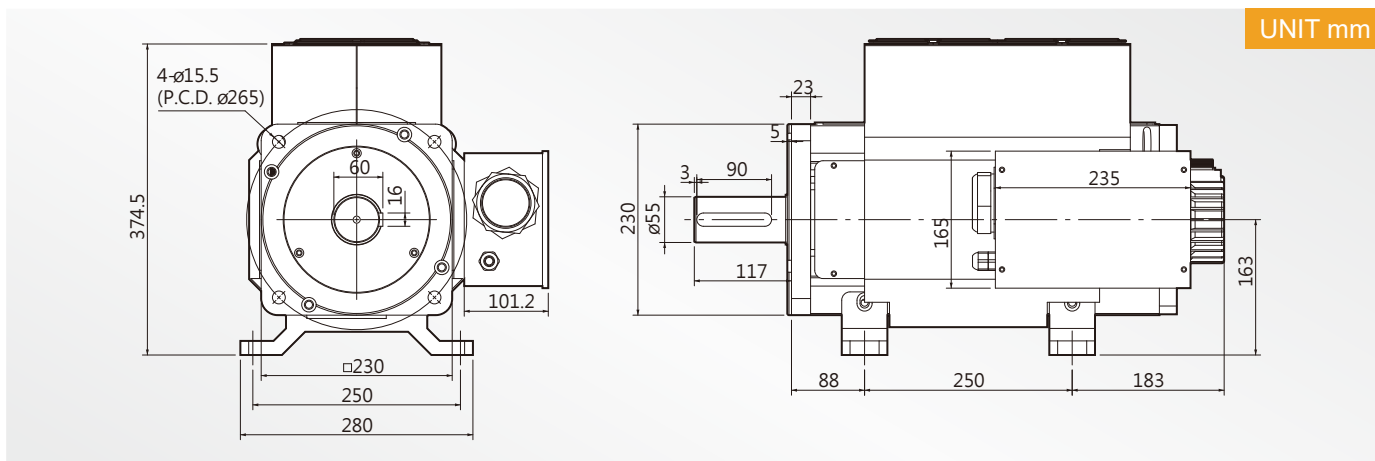
上風罩 LDFM 230-E



外觀尺寸圖

Dimensions

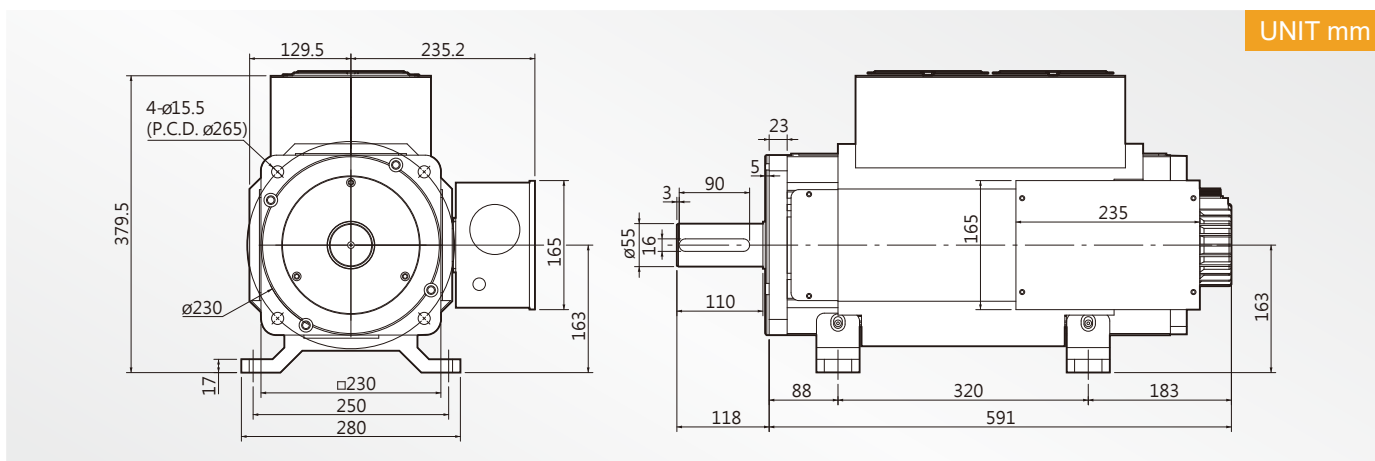
上風罩 LDFM 230-F



外觀尺寸圖

Dimensions

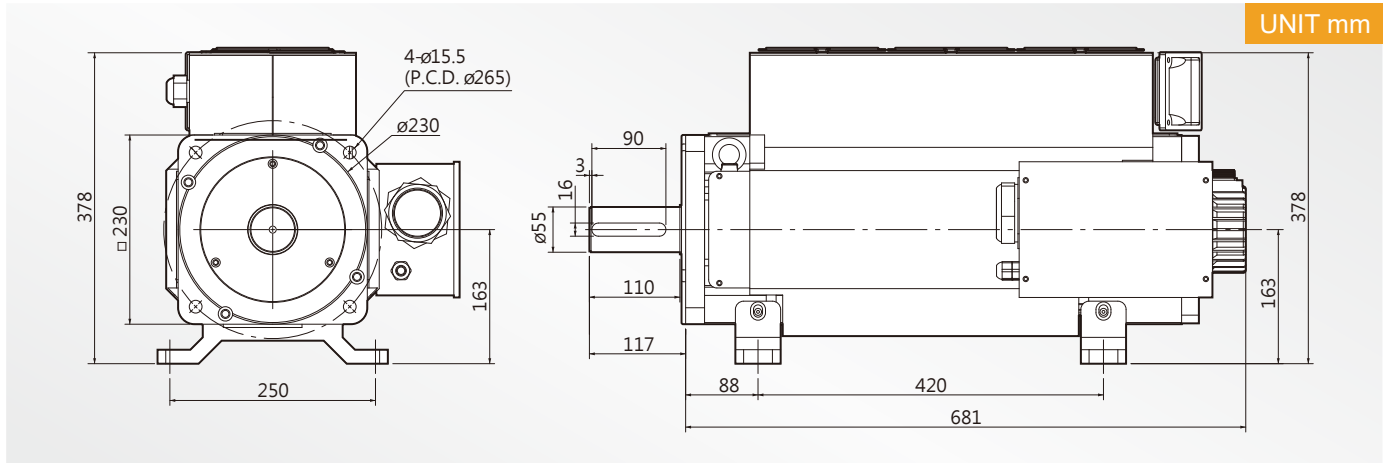
上風罩 LDFM 230-G



外觀尺寸圖

Dimensions

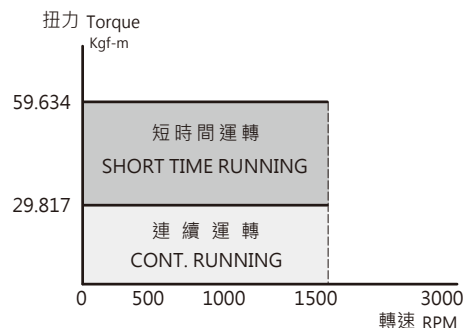
上風罩 LDFM 230-H





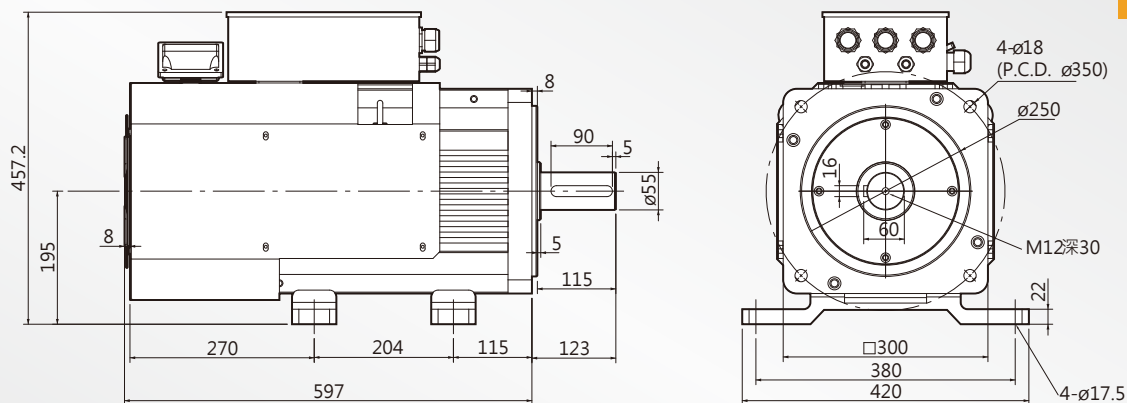
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions



UNIT mm

技術資料

Servo Motor Technical Datasheet

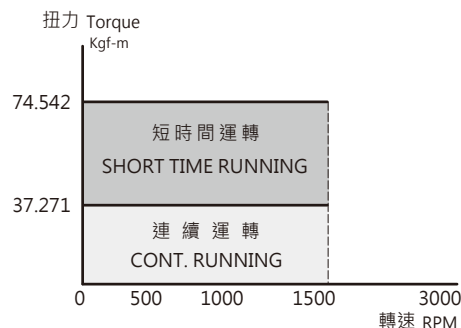
LDSM300-E

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	45	45
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 172	≥ 86
額定轉矩	Rated torque	TR	Kgf-m	29.817	29.817
額定電流	Rated current	IR	A	175	85.5
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	59.634	59.634
瞬間最大電流	Instant max. current	IP	A	351	172
最大轉速	Max. speed	Nmax	rpm	2100	2100
轉矩常數	Torque constant	KT	N·m/A	1.67	3.41
感應電壓常數	Induction voltage constant	KE	V/k rpm	93	190
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	1150.09	1150.09
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	4600.36	4600.36
重量 (標準)	Weight (Standard)	W	kg	155	155



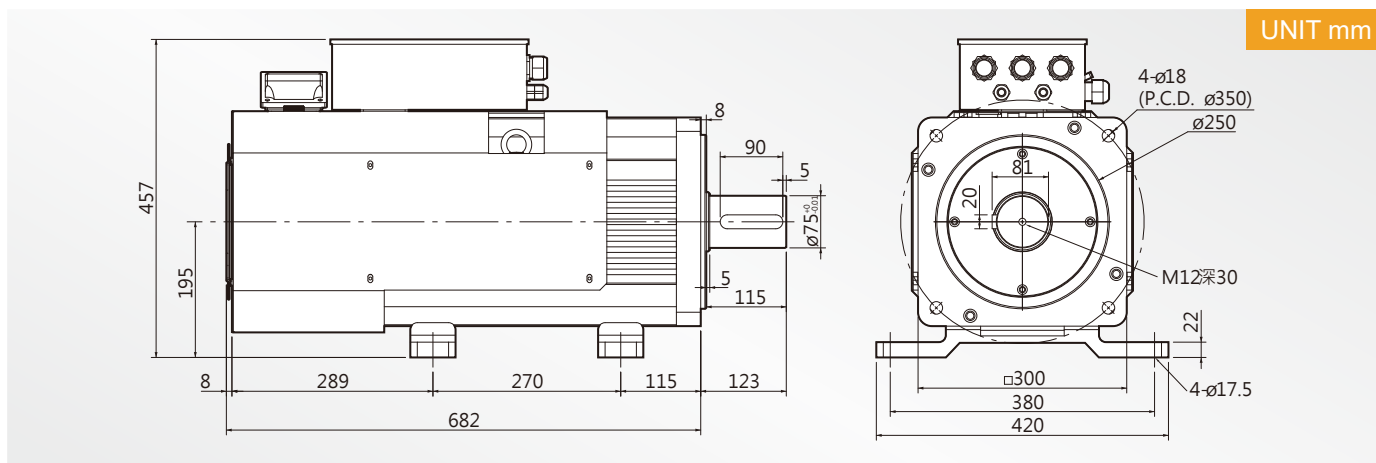
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions



技術資料

Servo Motor Technical Datasheet

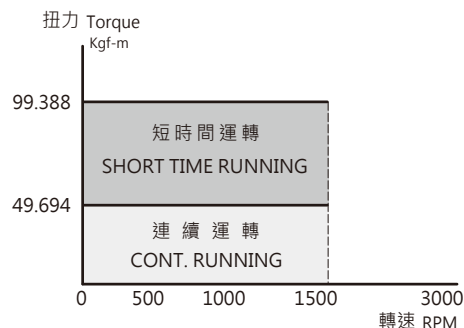
LDSM300-F

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	56.2	56.2
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 215	≥ 110
額定轉矩	Rated torque	TR	Kgf-m	37.271	37.271
額定電流	Rated current	IR	A	219	107
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	74.542	74.542
瞬間最大電流	Instant max. current	IP	A	438	215
最大轉速	Max. speed	Nmax	rpm	2100	2100
轉矩常數	Torque constant	KT	N·m/A	1.67	3.41
感應電壓常數	Induction voltage constant	KE	V/k rpm	93	190
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	1644.02	1644.02
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	6576.08	6576.08
重量 (標準)	Weight (Standard)	W	kg	190	190



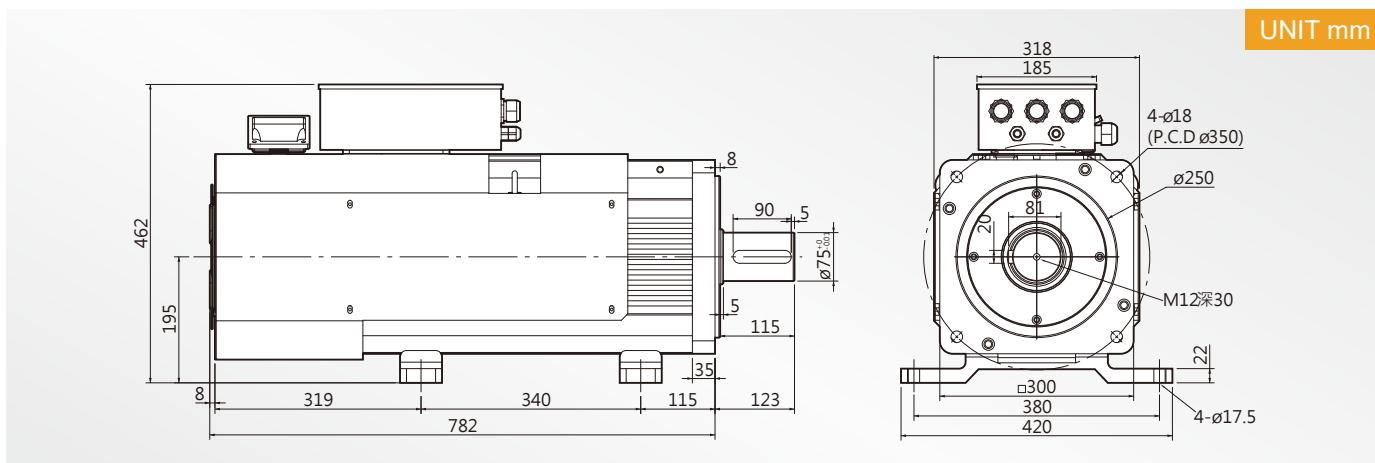
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions



技術資料

Servo Motor Technical Datasheet

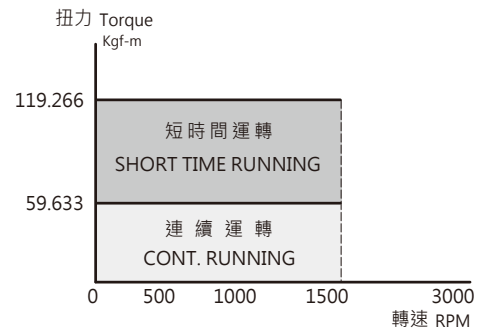
LDSM300-G

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	75	75
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 286	≥ 143
額定轉矩	Rated torque	TR	Kgf-m	49.694	49.694
額定電流	Rated current	IR	A	292	143
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	99.388	99.388
瞬間最大電流	Instant max. current	IP	A	584	286
最大轉速	Max. speed	Nmax	rpm	2100	2100
轉矩常數	Torque constant	KT	N·m/A	1.67	3.41
感應電壓常數	Induction voltage constant	KE	V/k rpm	93	190
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	2107.09	2107.09
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	8428.36	8428.36
重量 (標準)	Weight (Standard)	W	kg	227	227



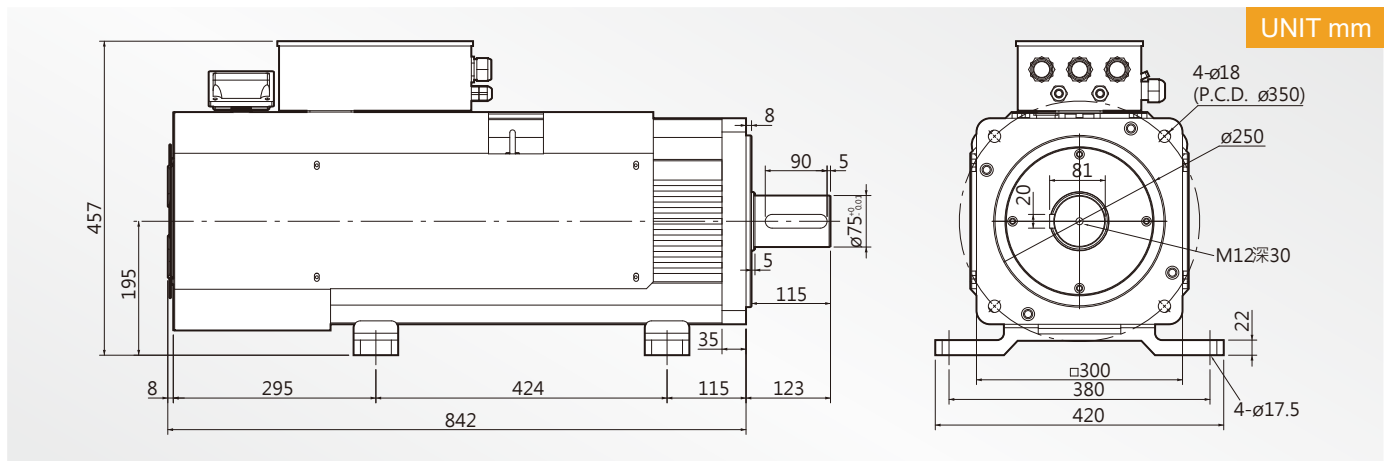
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions



UNIT mm

技術資料

Servo Motor Technical Datasheet

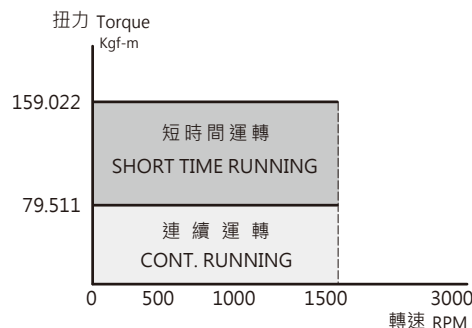
LDSM300-H

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	90	90
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 343	≥ 172
額定轉矩	Rated torque	TR	Kgf-m	59.633	59.633
額定電流	Rated current	IR	A	351	172
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	119.266	119.266
瞬間最大電流	Instant max. current	IP	A	701	343
最大轉速	Max. speed	Nmax	rpm	2100	2100
轉矩常數	Torque constant	KT	N·m/A	1.67	3.41
感應電壓常數	Induction voltage constant	KE	V/k rpm	93	190
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	2199.7	2199.7
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	8798.9	8798.8
重量 (標準)	Weight (Standard)	W	kg	255	255



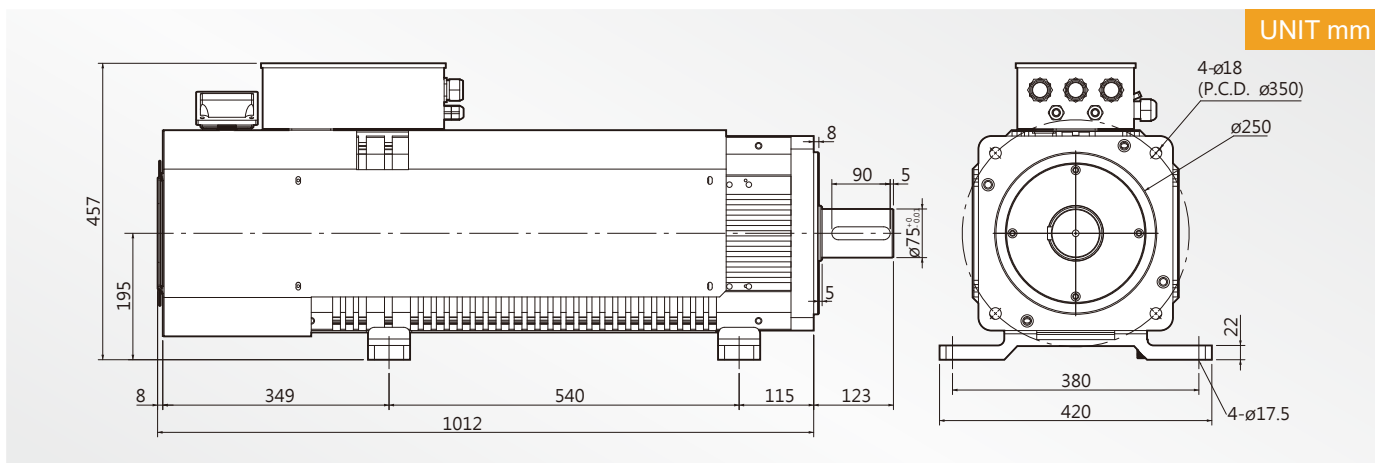
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions



技術資料

Servo Motor Technical Datasheet

LDSM300-I

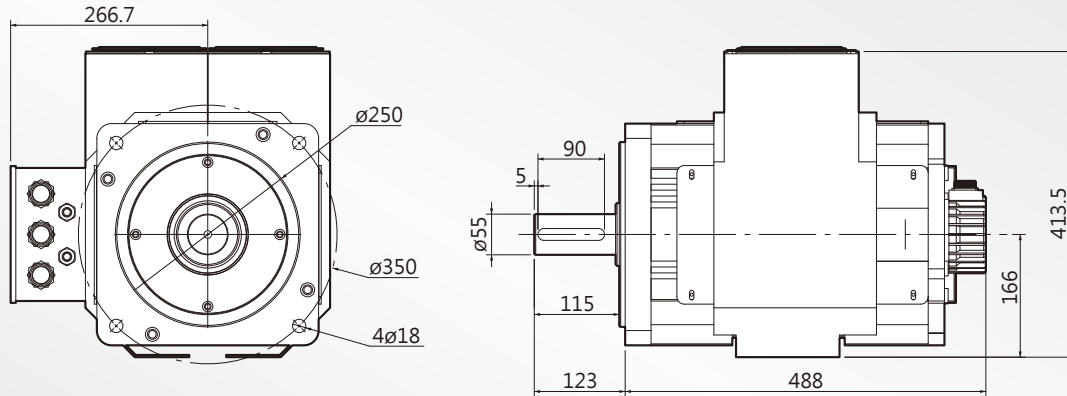
項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	120	120
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 460	≥ 230
額定轉矩	Rated torque	TR	Kgf-m	79.511	79.511
額定電流	Rated current	IR	A	467	229
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	159.022	159.022
瞬間最大電流	Instant max. current	IP	A	935	458
最大轉速	Max. speed	Nmax	rpm	2100	2100
轉矩常數	Torque constant	KT	N·m/A	1.67	3.41
感應電壓常數	Induction voltage constant	KE	V/k rpm	93	190
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	2878.86	2878.86
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	11515.44	11515.44
重量 (標準)	Weight (Standard)	W	kg	316	316

外觀尺寸圖

Dimensions

上風罩 LDFM 300-E

UNIT mm

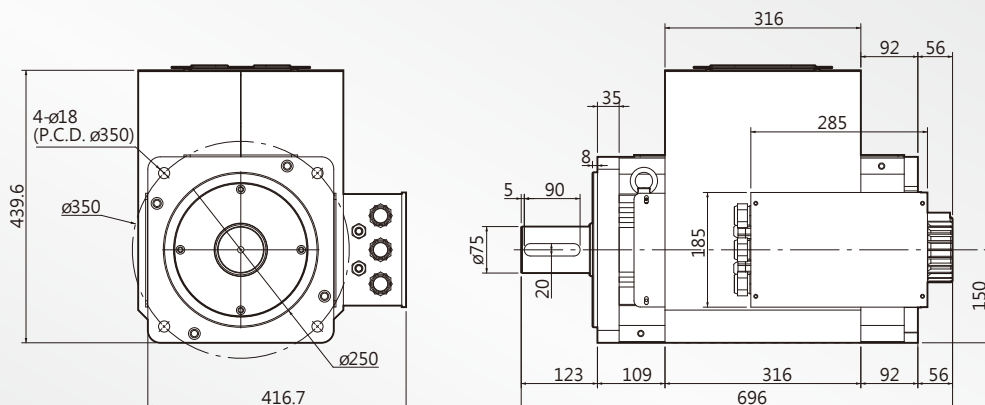


外觀尺寸圖

Dimensions

上風罩 LDFM 300-F

UNIT mm

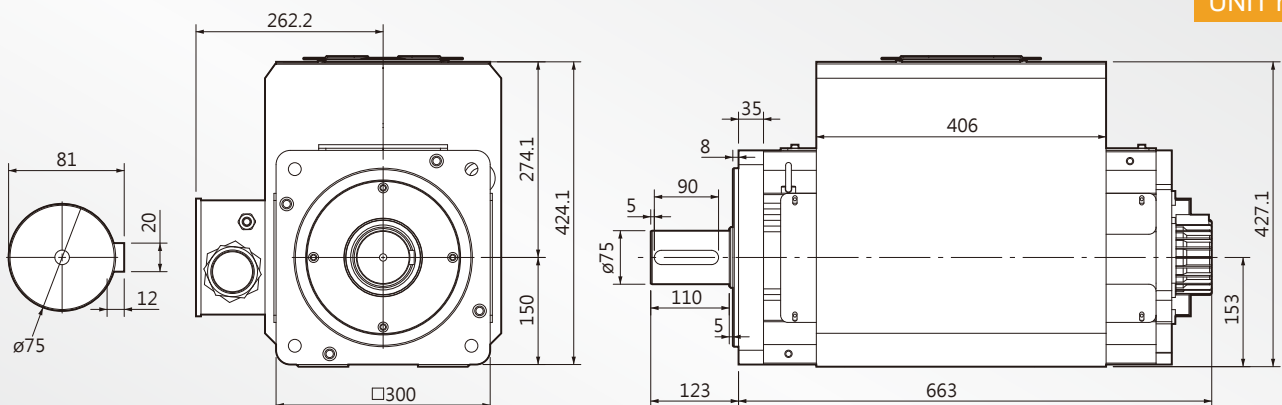


外觀尺寸圖

Dimensions

上風罩 LDFM 300-G

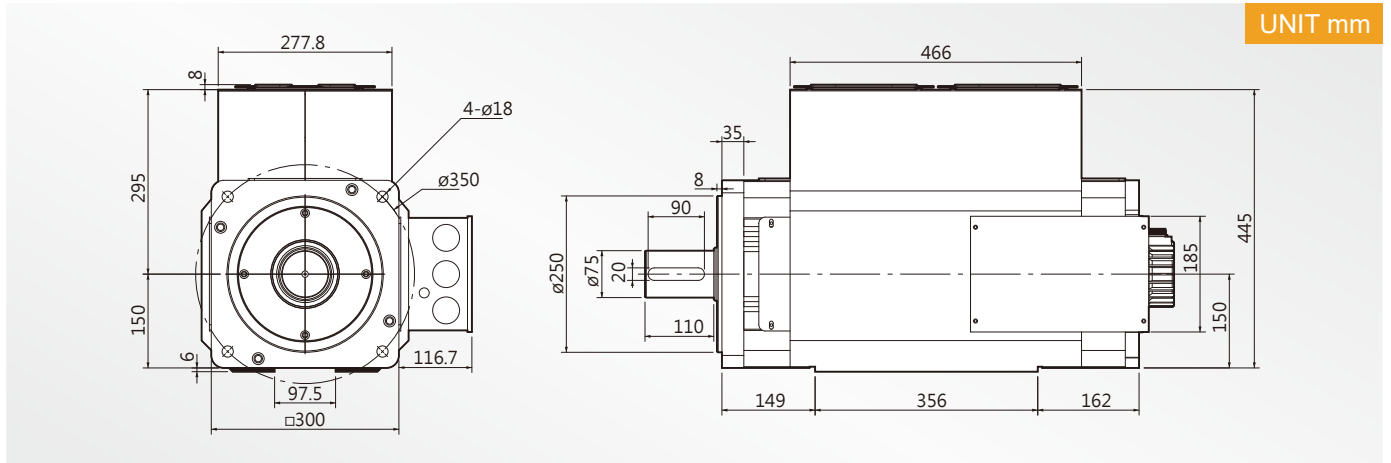
UNIT mm



外觀尺寸圖

Dimensions

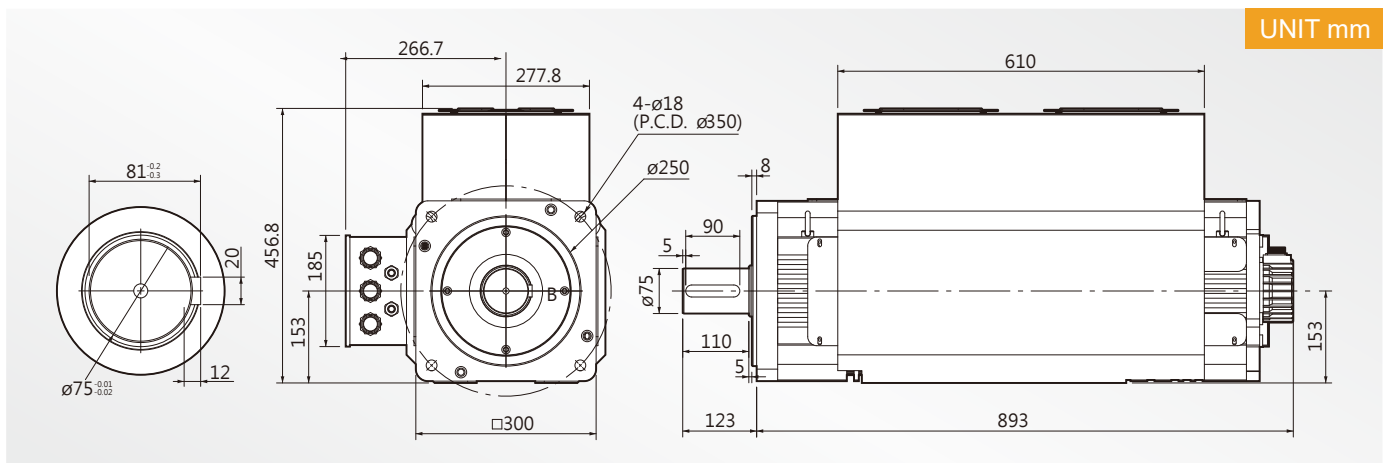
上風罩 LDFM 300-H



外觀尺寸圖

Dimensions

上風罩 LDFM 300-I



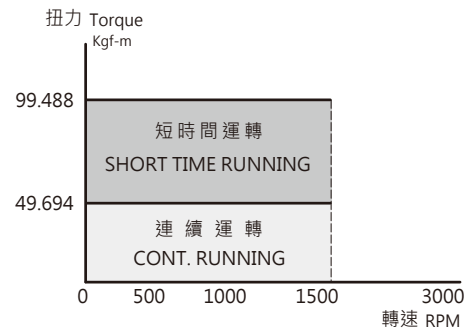
LDSM 450-A

永磁同步伺服馬達
Permanent Magnetic Synchronous Servo Motors



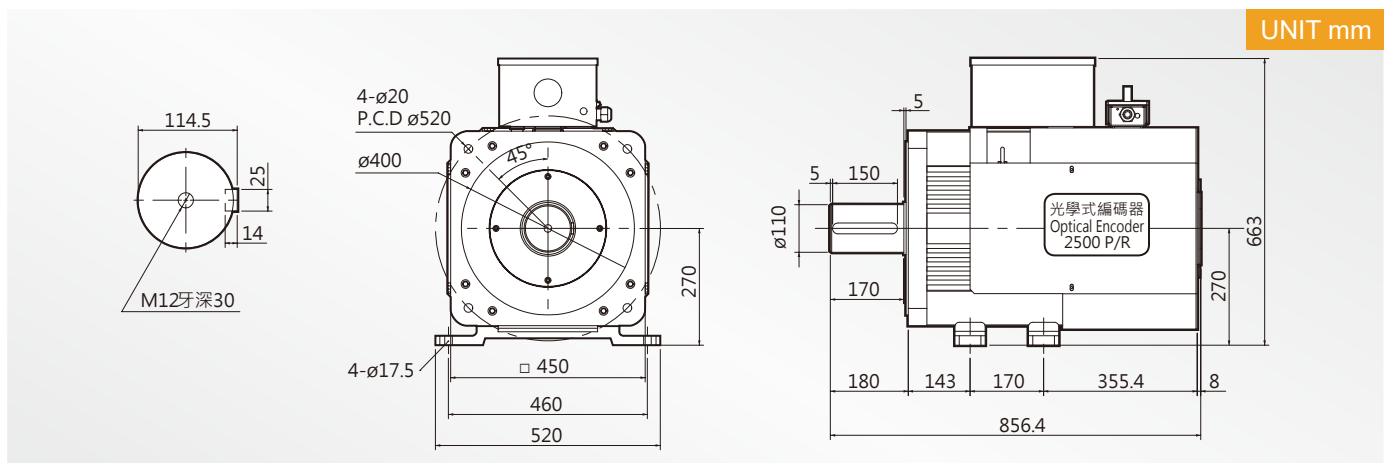
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions

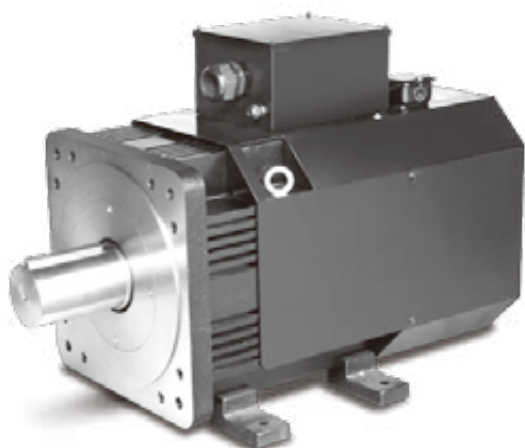


技術資料

Servo Motor Technical Datasheet

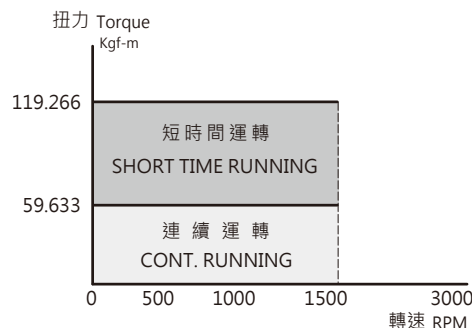
LDSM450-A

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	75	75
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 300	≥ 150
額定轉矩	Rated torque	TR	Kgf-m	49.694	49.694
額定電流	Rated current	IR	A	292	143
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	99.388	99.388
瞬間最大電流	Instant max. current	IP	A	584	286
最大轉速	Max. speed	Nmax	rpm	2100	2100
轉矩常數	Torque constant	KT	N·m/A	1.67	3.41
感應電壓常數	Induction voltage constant	KE	V/k rpm	93	190
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	5517.19	5517.19
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	22068.76	22068.76
重量 (標準)	Weight (Standard)	W	kg		



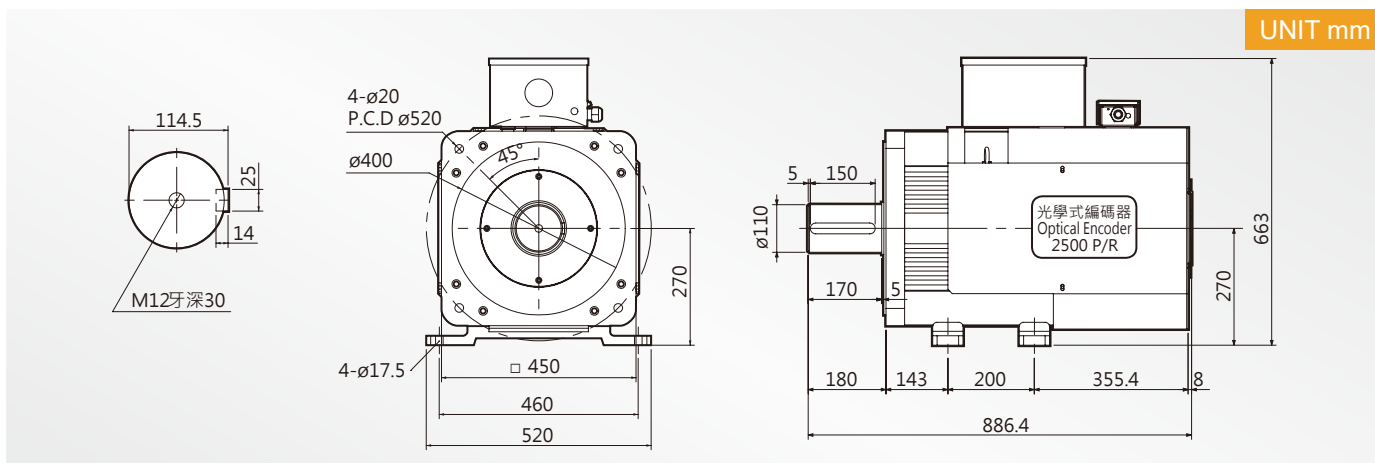
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions



技術資料

Servo Motor Technical Datasheet

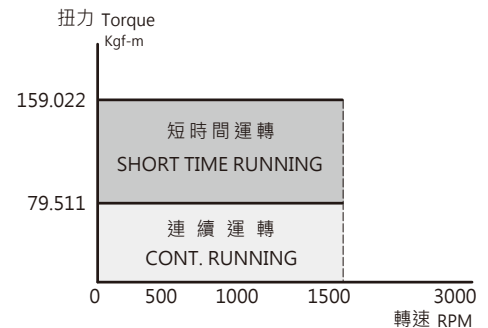
LDSM450-B

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	90	90
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 360	≥ 180
額定轉矩	Rated torque	TR	Kgf-m	59.633	59.633
額定電流	Rated current	IR	A	351	172
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	119.266	119.266
瞬間最大電流	Instant max. current	IP	A	701	343
最大轉速	Max. speed	Nmax	rpm	2100	2100
轉矩常數	Torque constant	KT	N·m/A	1.67	3.41
感應電壓常數	Induction voltage constant	KE	V/k rpm	93	190
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	6535.06	6535.06
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	26140.24	26140.24
重量 (標準)	Weight (Standard)	W	kg		



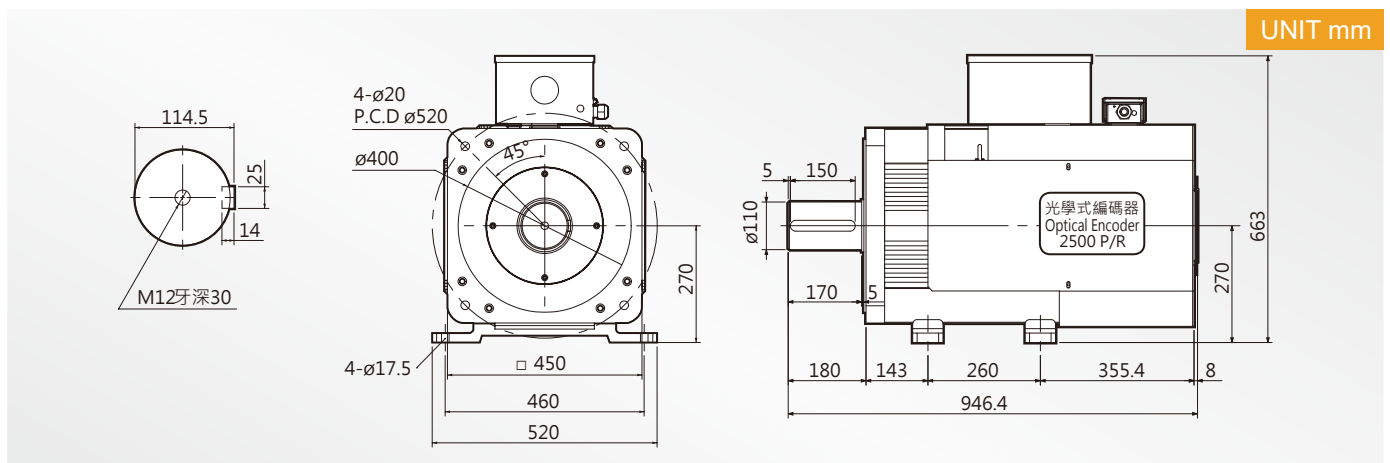
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions



技術資料

Servo Motor Technical Datasheet

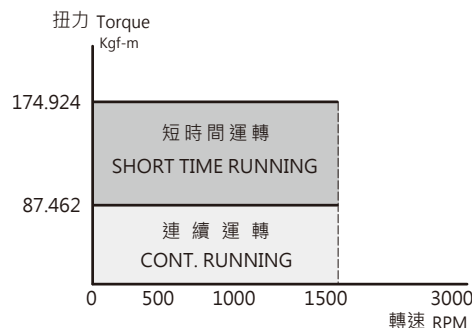
LDSM450-C

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	120	120
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 470	≥ 230
額定轉矩	Rated torque	TR	Kgf-m	79.511	79.511
額定電流	Rated current	IR	A	467	229
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	159.022	159.022
瞬間最大電流	Instant max. current	IP	A	935	458
最大轉速	Max. speed	Nmax	rpm	2100	2100
轉矩常數	Torque constant	KT	N·m/A	1.67	3.41
感應電壓常數	Induction voltage constant	KE	V/k rpm	93	190
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	8570.81	8570.81
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	34283.24	34283.24
重量 (標準)	Weight (Standard)	W	kg		



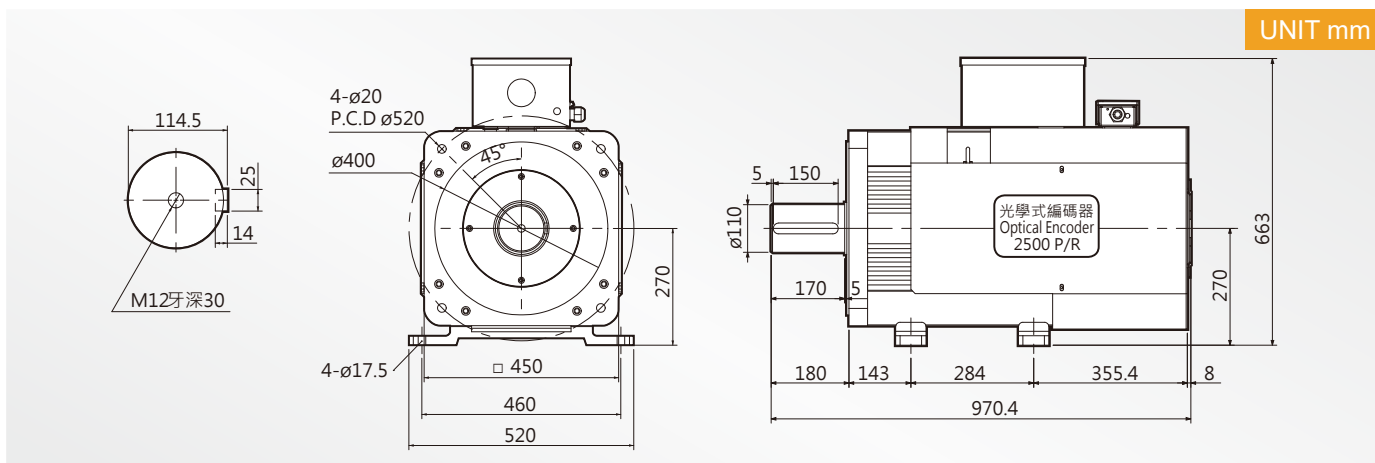
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions

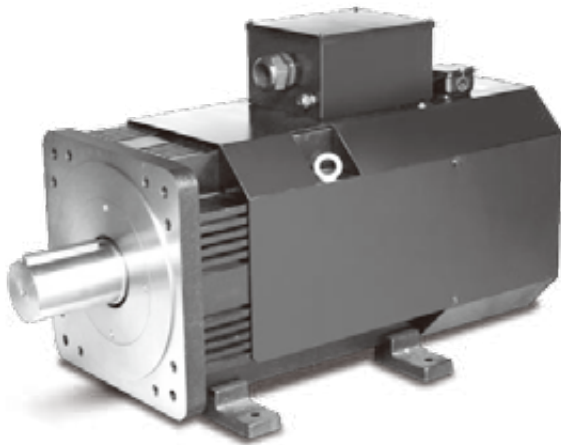


技術資料

Servo Motor Technical Datasheet

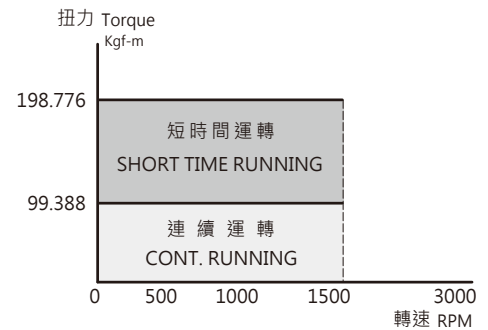
LDSM450-D

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	132	132
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 530	≥ 260
額定轉矩	Rated torque	TR	Kgf-m	87.462	87.462
額定電流	Rated current	IR	A	514	252
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	174.924	174.924
瞬間最大電流	Instant max. current	IP	A	1028	503
最大轉速	Max. speed	Nmax	rpm	2100	2100
轉矩常數	Torque constant	KT	N·m/A	1.67	3.41
感應電壓常數	Induction voltage constant	KE	V/k rpm	93	190
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	9385.11	9385.11
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	37540.44	37540.44
重量 (標準)	Weight (Standard)	W	kg		



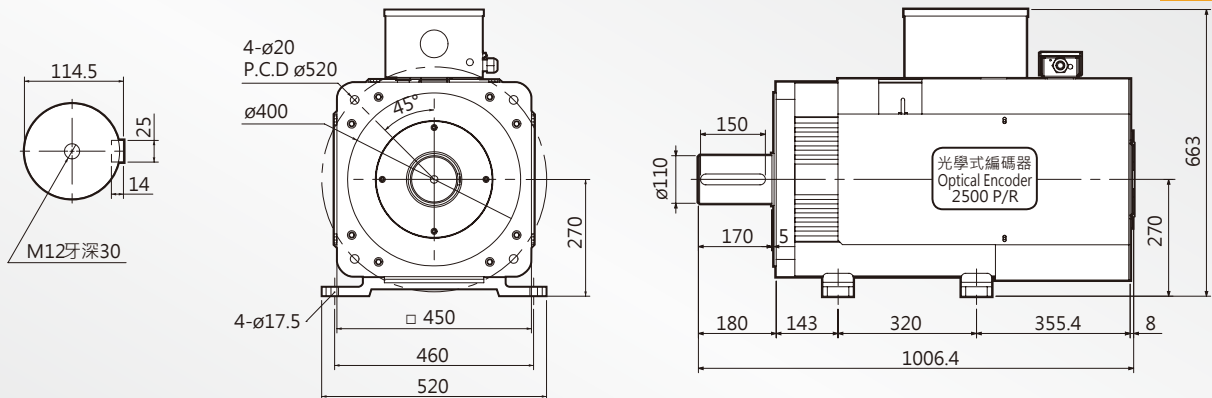
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions



UNIT mm

技術資料

Servo Motor Technical Datasheet

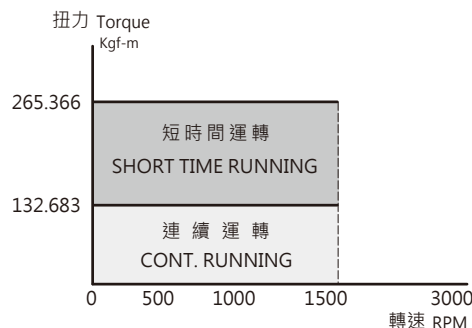
LDSM450-E

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	150	150
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 600	≥ 290
額定轉矩	Rated torque	TR	Kgf-m	99.388	99.388
額定電流	Rated current	IR	A	584	286
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	198.776	198.776
瞬間最大電流	Instant max. current	IP	A	1169	572
最大轉速	Max. speed	Nmax	rpm	2100	2100
轉矩常數	Torque constant	KT	N·m/A	1.67	3.41
感應電壓常數	Induction voltage constant	KE	V/k rpm	93	190
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	10606.56	10606.56
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	42426.24	42426.24
重量 (標準)	Weight (Standard)	W	kg		



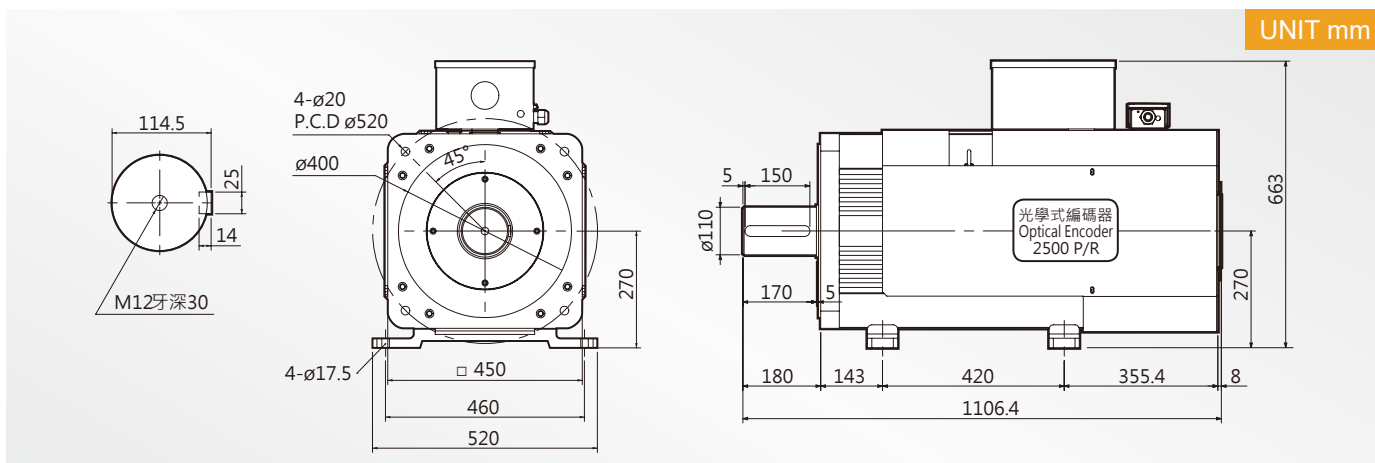
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions



技術資料

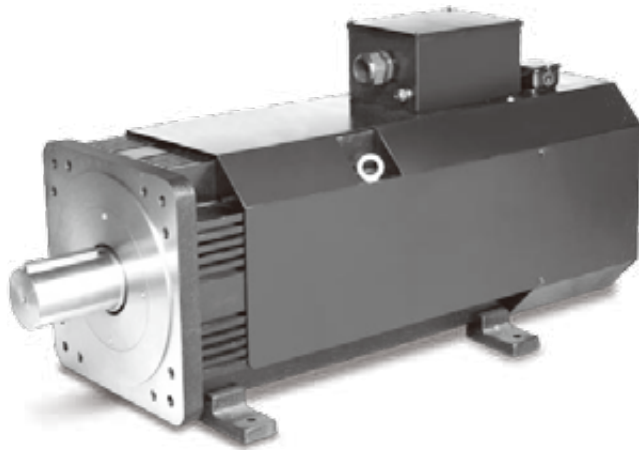
Servo Motor Technical Datasheet

LDSM450-F

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	200	200
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 800	≥ 390
額定轉矩	Rated torque	TR	Kgf-m	132.683	132.683
額定電流	Rated current	IR	A	780	382
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	265.366	265.366
瞬間最大電流	Instant max. current	IP	A	1560	764
最大轉速	Max. speed	Nmax	rpm	2100	2100
轉矩常數	Torque constant	KT	N·m/A	1.67	3.41
感應電壓常數	Induction voltage constant	KE	V/k rpm	93	190
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	13999.48	13999.48
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	55997.92	55997.92
重量 (標準)	Weight (Standard)	W	kg		

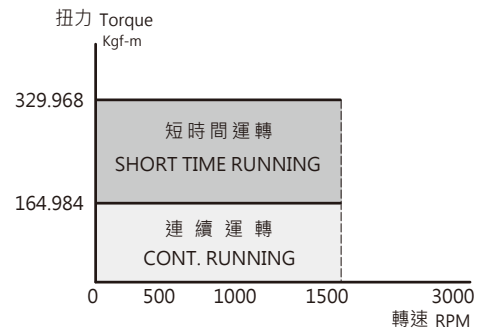
LDSM 450-G

永磁同步伺服馬達
Permanent Magnetic Synchronous Servo Motors



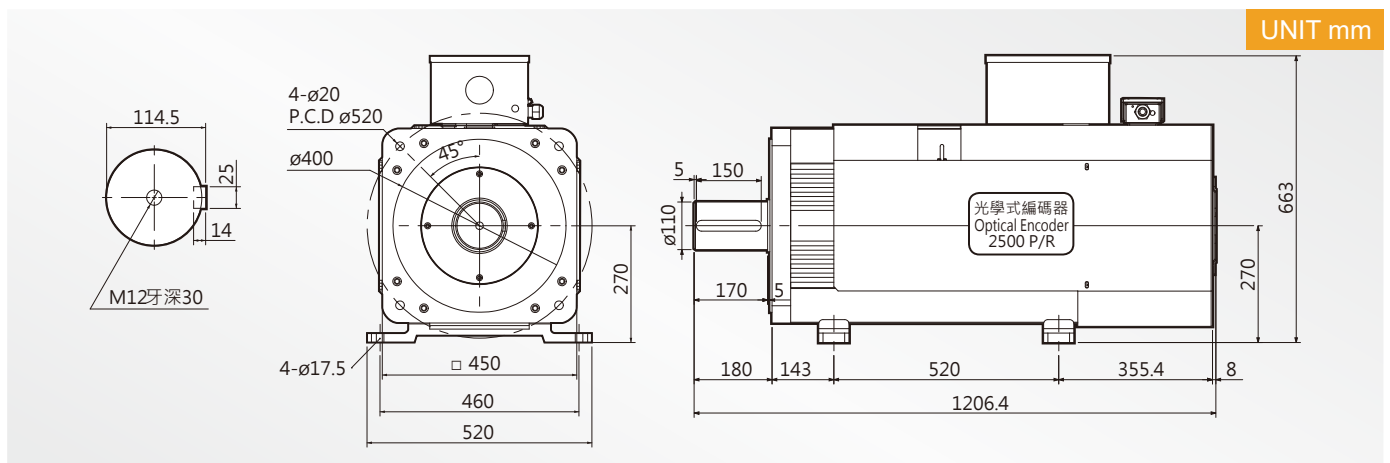
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions

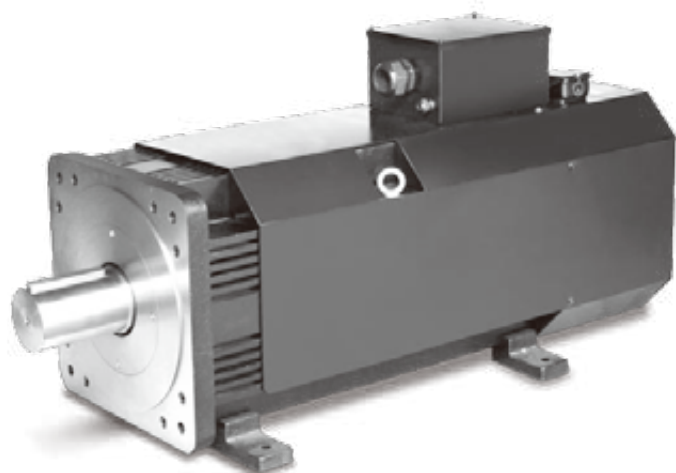


技術資料

Servo Motor Technical Datasheet

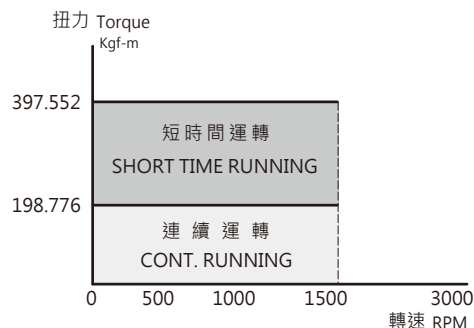
LDSM450-G

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	250	250
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 1000	≥ 480
額定轉矩	Rated torque	TR	Kgf-m	164.984	164.984
額定電流	Rated current	IR	A	970	475
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	329.968	329.968
瞬間最大電流	Instant max. current	IP	A	1940	950
最大轉速	Max. speed	Nmax	rpm	2100	2100
轉矩常數	Torque constant	KT	N·m/A	1.67	3.41
感應電壓常數	Induction voltage constant	KE	V/k rpm	93	190
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	17392.4	17392.4
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	69569.6	69569.6
重量 (標準)	Weight (Standard)	W	kg		



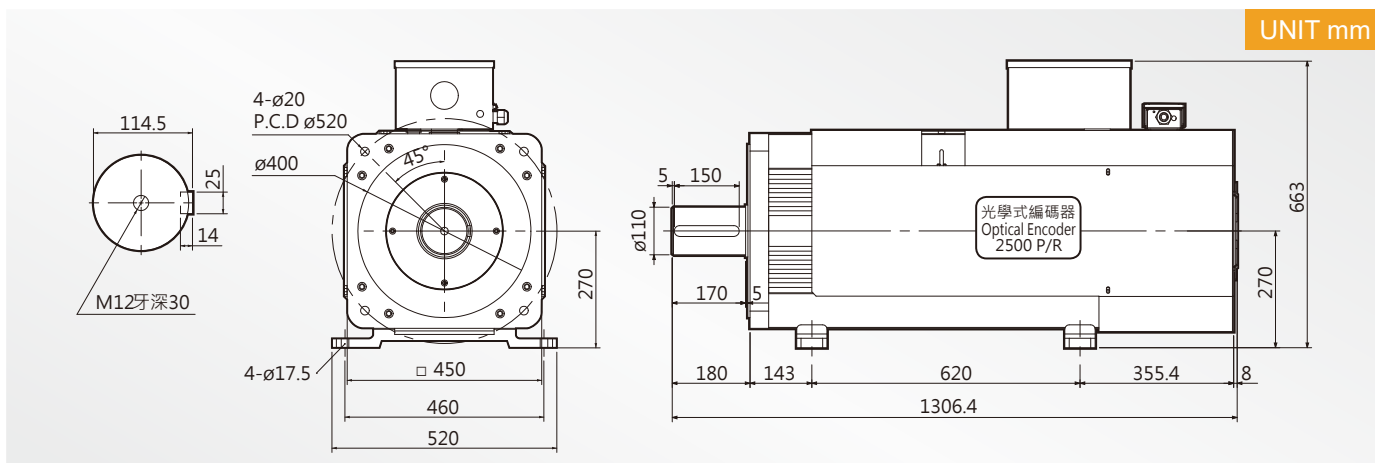
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions



技術資料

Servo Motor Technical Datasheet

LDSM450-H

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	300	300
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 1200	≥ 600
額定轉矩	Rated torque	TR	Kgf-m	198.776	198.776
額定電流	Rated current	IR	A	1169	572
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	397.552	397.552
瞬間最大電流	Instant max. current	IP	A	2337	1144
最大轉速	Max. speed	Nmax	rpm	2100	2100
轉矩常數	Torque constant	KT	N·m/A	1.67	3.41
感應電壓常數	Induction voltage constant	KE	V/k rpm	93	190
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	20785.31	20785.31
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	83141.24	83141.24
重量 (標準)	Weight (Standard)	W	kg		

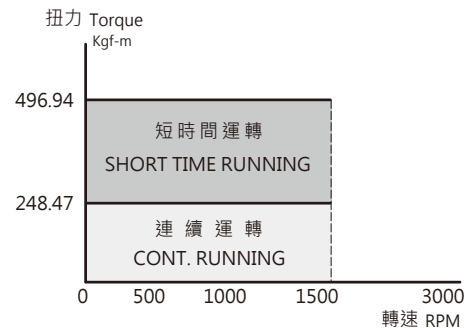
LDSM 450-I

永磁同步伺服馬達
Permanent Magnetic Synchronous Servo Motors



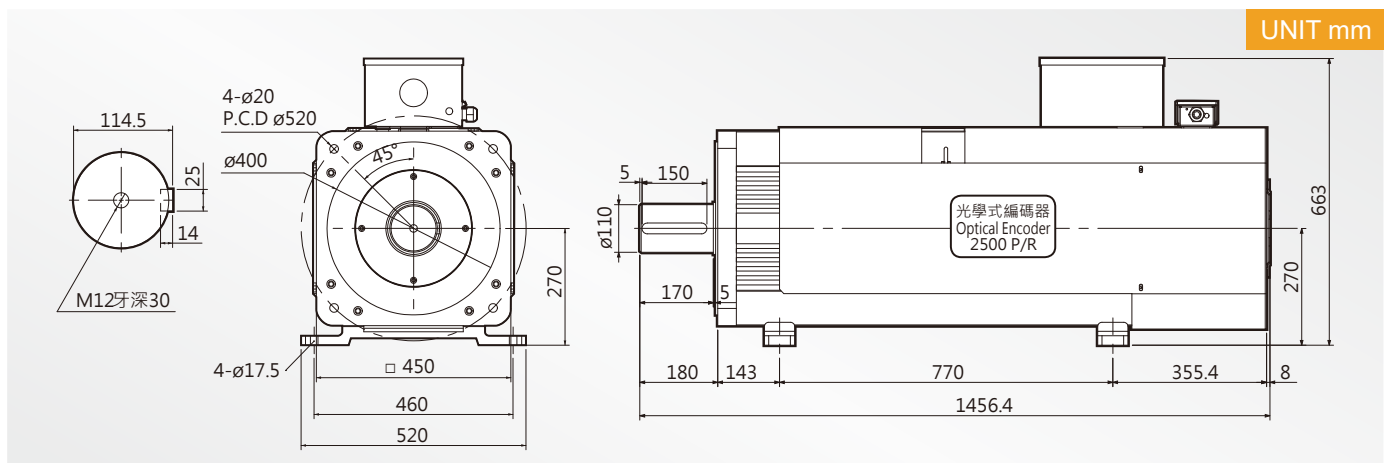
T-M 扭力轉速曲線圖

T-M Torque / Speed Diagram



外觀尺寸圖

Dimensions



技術資料

Servo Motor Technical Datasheet

LDSM450-I

項目	Item	符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	375	375
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 1500	≥ 750
額定轉矩	Rated torque	TR	Kgf-m	248.47	248.47
額定電流	Rated current	IR	A	1461	715
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	496.94	496.94
瞬間最大電流	Instant max. current	IP	A	2922	1430
最大轉速	Max. speed	Nmax	rpm	2100	2100
轉矩常數	Torque constant	KT	N·m/A	1.67	3.41
感應電壓常數	Induction voltage constant	KE	V/k rpm	93	190
轉子慣量 (J)	Rotor inertia (J)	JM	kg/cm ²	25874.69	25874.69
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	103498.76	103498.76
重量 (標準)	Weight (Standard)	W	kg		

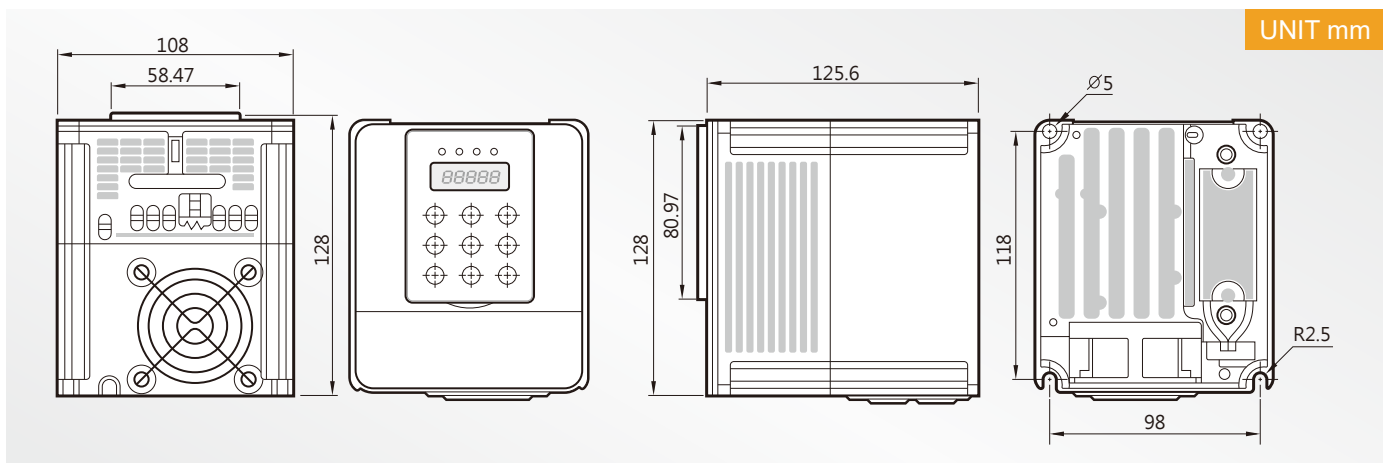


無刷直流電機驅動器是一種創新的產品採用 32 位 DSP 數字控制，可以控制無刷直流電動機，具有強大的功能，廣泛的動態響應，速度控制範圍，高速準確性，非常準確尺寸。

The brushless DC motor driver is an innovative product, employing 32-digit DSP digital control for controlling brushless motor. It features powerful functions and wide range of dynamic response and speed control. High accuracy at high speed and accurate size.

外觀尺寸圖

Dimensions



驅動器規格

Specifications of Driver

項目	Item	IRIS-BL-3.5	IRIS-BL-5	IRIS-BL-7
額定輸出電流	Rated output current	3.5 A	5 A	7 A
入力電源	Input power	AC180V~240V 單相/三相 Sing. ph./3ph. 50/60Hz, ±10%		
輸出電流	Output current	3 相 0~輸入電壓，正弦波 3ph. 0~input volt. sine wave		
超載能力	Overload capacity	150% 1 MIN, 200% 2 Seconds		
控制模式	Control mode	速度控制、扭矩控制、絕對同步串級 Speed cont., Torq. cont., Abso. synch. series		
速度控制範圍	Speed control range	開放迴路 Open loop (w/o Hall Sensor and Encoder) 1:100 關閉迴路 Close loop (w/ Economic Magnetic Encoder) 1:200		
載波頻率	Wave carry frequency	2~15KHz		
模擬 I/O 輸入	Simulated I/O input	1 NO. 12 位元 12-digit		
模擬 I/O 輸出	Simulated I/O output	1 NO. 8 位元 8-digit		
數位 I/O 輸入	Digital I/O input	6 NO. Sink, Programmable		
數位 I/O 輸出	Digital I/O output	2 NO. NPN, Programmable		
可變電阻輸出	Variable resistance output	1 NO. Dry Contact		
制動載波器	Brake ware carrier	Built-in		
通信裝置	Communication device	RS485 x 2 : CAN BUS in option		
驅動器重量	Weight of driver	2 kg		



產品特點

1. 本體框架：精密嚴謹的結構設計，提高精度並延長馬達壽命。
2. 動態平衡：所有製程與工件均做動態平衡分析與校正。
3. 精密軸承：全部採用精密級軸承，以延長馬達壽命並使馬達可以高速運轉。
4. 冷卻系統：獨立強制冷卻系統，使伺服馬達不論在高轉速或低轉速都可以保持良好的冷卻效果。
5. 高可靠度解角器：以防護網包覆以確保訊號不被干擾，提高閉迴路控制的可靠度。

產品特性

1. 基底頻率以上，高速運轉維持定馬力輸出，有廣域的定功率輸出特性。
2. 基底頻率以下，低速運轉時保持相當平穩線性磁場，以維持定轉矩輸出。
3. 特殊的繞線設計及絕緣等級，使驅動器在做載波伺服控制時不會破壞線圈絕緣。
4. 使用高階矽鋼片，馬達在使用範圍內，維持著線性控制的優良伺服特性。
5. 特殊磁路設計與磁場分析，馬達在使用範圍內不會產生磁場飽和現象大大提高馬達的伺服特性及降低因突波電流對馬達及驅動器的損害。
6. 以先進精密技術為設計規範，伺服馬達有相當高的功率體積比。
7. 良好的轉動慣量設計，使馬達在剛性攻牙時，能有高度的響應特性。
8. 精密定轉子槽形設計，馬達在定位控制時，快速平滑，不會因突波磁場而產生跳動情形。

PRODUCT FEATURES

1. FRAME: Precise and meticulous structure design help to upgrade precision and extend the service life of motor.
2. DYNAMIC BALANCE: All of manufacturing processes and parts are dynamically balanced and calibrated.
3. PRECISION BEARINGS: All bearings used are high precision grade to extend motor life and make motors suitable for high speed running.
4. COOLING SYSTEM: Independent forced cooling system allows the motor to maintain at an outstanding cooling effect at both high and low running speed.
5. HIGHLY RELIABLE RESOLVER: The resolver is guarded by protection screen to ensure that the signal is not disturbed, which in turn increases the dependability of the control circuit.

PRODUCT FEATURES

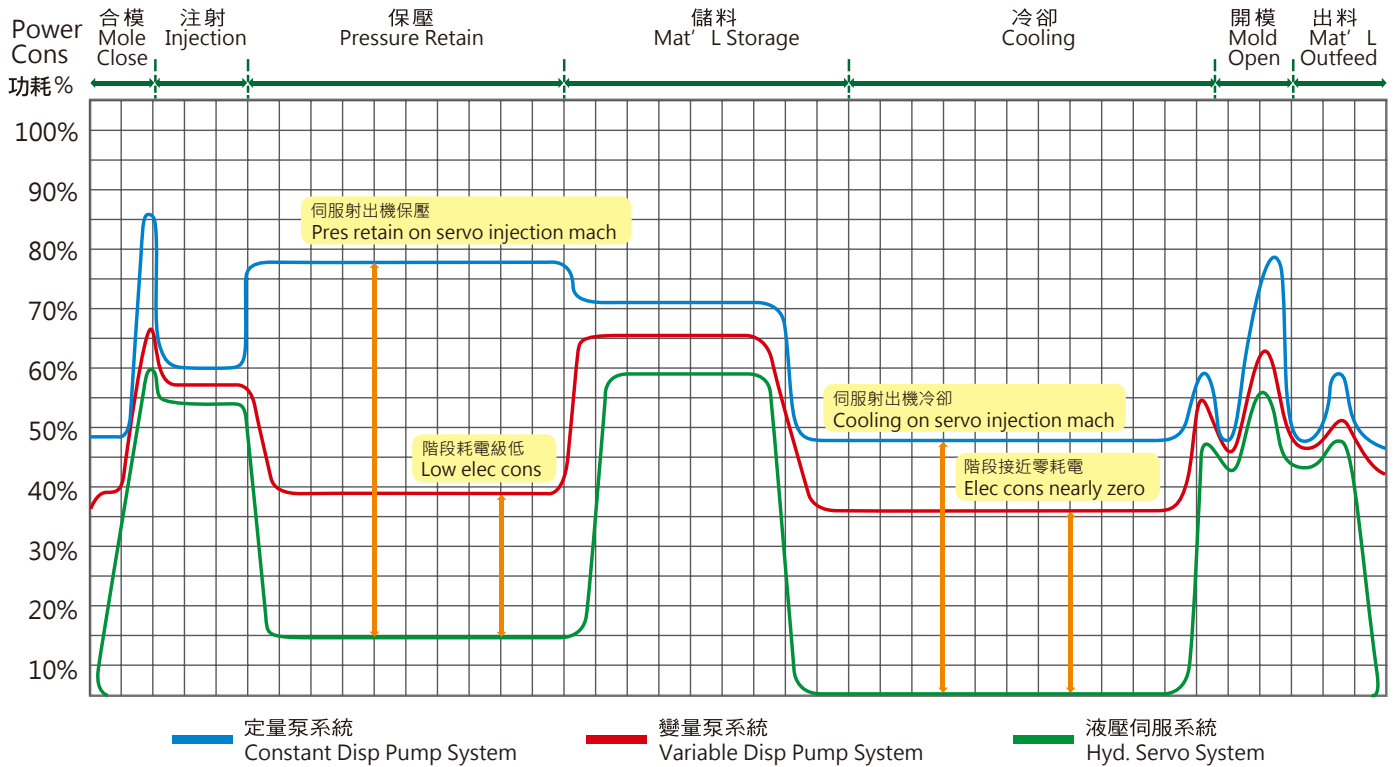
1. In case of over base frequency, high speed running may maintain constant horsepower output with a wide range of power output.
2. In case of under base frequency, low speed running may maintain a stable linear magnetic field, thus constant torque output can be maintained.
3. With the special winding design and insulation class, the driver dose not damage the coil insulation when performing carrier wave servo control.
4. By using the high quality silicon steel sheet, the motor can maintain a linear control for outstanding servo characteristics in the usage range of motor.
5. With the special magnetic circuit design in combination with magnetic field analysis, the motor does not cause a magnetic field saturation phenomenon in its usage range. This not only dramatically increases the servo characteristics of the motor, but also reduces the possibility of damage to the motor and driver due to a surge current.
6. Designed with the advanced precision standards, the servo motor features high power volume ratio.
7. The outstanding design of moment of inertia enables the motor to exhibit high response characteristics when performing rigid tapping.
8. Precision designed slots in the stator and rotor provide fast and smooth positioning control and no vibration due to a surge magnetic field.

1. 有效節省能源

三種系統做比較，液壓伺服系統結合驅動器，根據上位控制器所送出的指令，依實際需要讓馬達輸出扭力與轉速，不做多餘的浪費，節能效果也最好。

1. Effective Energy Saving

When making comparison among three systems, the hydraulic servo system in combination with the driver allow the motor to output torque and speed according to the actual requirements by the commands sent from the controller, It eliminates unnecessary waste, thus providing the best energy saving effect.

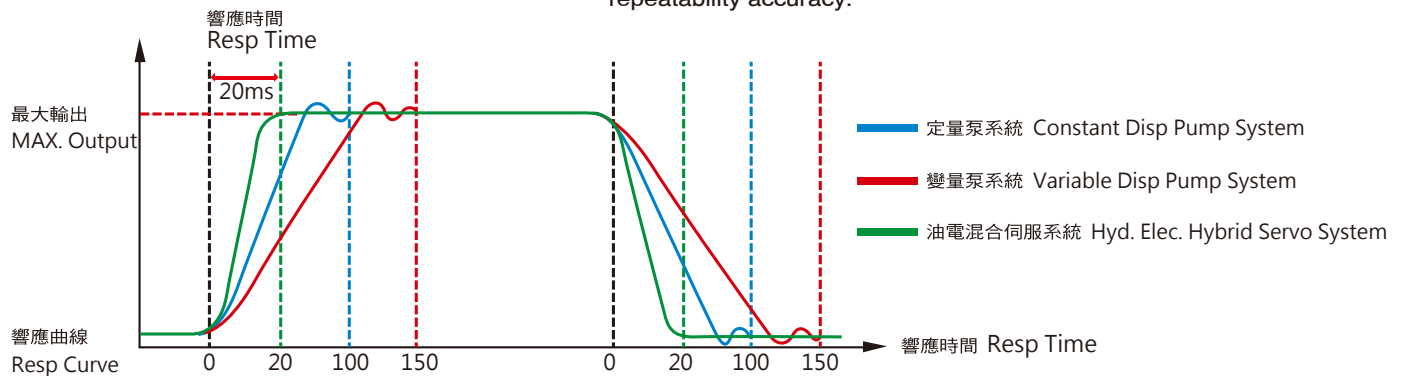


2. 高響應、高精度特性

同步馬達採用磁石設計，突波電流小、馬達效率高、無轉差問題，透過 ABB 驅動器優良的驅動特性做有效的控制，具有高響應及高精度特性，使機器動作上能達到穩定與高重現性的要求。

2. Effectively Save Energy

The synchronous motor is designed with magnet, featuring small surge current, high efficiency and without speed difference problem. The use of A & B driver with its outstanding drive performance for effective control provides high response and high precision features. This enables the machine to meet the requirements of motion stability and repeatability accuracy.



3. 低損耗、高效率、低噪音

由於同步馬達設計上採用低損耗材質之矽鋼片，系統在運作中可減少鐵損、減少驅動器控制時激磁噪音與降低能量損耗，使馬達比較不會發燙，可有效延長軸承壽命。

3. Low Wear, High Efficiency, Low Noise

As the synchronous motor employs low-wear materials such as silicon sheet, it can reduce iron loss during the system is operating, reduce energization noise when controlled by the driver, reduce energy consumption, reduce thermal growth on motor and extend bearing life.



電動儲料系統

在能源成本不斷上漲的情況下，節能議題越來越受到重視，產業機械應用也跟著轉變，在需要大扭力的情況下不再只有油壓馬達可使用，電動儲料系統變成另外一種新的選擇，組合可分成 2 種：

1. 減速機 + 永磁同步伺服馬達 + 驅動器
2. 直驅式 DD 馬達 + 驅動器

系統具有以下優點

1. 原本液壓系統規格選用時可縮小。
2. 動作時才消耗能量，讓機器更省電。
3. 由於儲料獨立所以機器可以同時做 2 個動作，縮短生產週期。
4. 速度控制穩定精準。

ELECTRIC STORAGE SYSTEM

In the environment of rising energy costs, energy-saving issues are getting more and more attention. Applications by industrial machinery are also changed. When high torque is required, the hydraulic motor is no longer the only one that can be used. The electric storage system is becoming a new selection. There are two combination units are available :

1. Speed reducer + permanent magnet synchronous motor + driver.
2. Direct drive motor + driver.

ADVANTAGES OF THE SYSTEM

1. The originally used hydraulic system specifications can be reduced.
2. Energy is consumed only when motions accurate, allowing the machine to save electricity consumption.
3. The storage system is independently mounted, so that machine can perform two motions simultaneously to shorten production time.
4. Speed control is stable and accurate.



