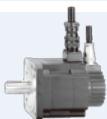
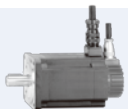


公司介紹	 P02
 LDDD Series LDUM Series	Oil Cooled Permanent Magnetic Servo Motor 油冷式永磁伺服馬達 P07
 LDSM 60	A / B P08
 LDSM 80	A / B P10
 LDSM 85	AS / BS / CS / DS P12
 LDSM 85	A / B / C / D P16
 LDSM 125	A / B / C / D / E P20
 LDSM 145	A / B / C / D P26
 LDSM 190	A / B / C / D / K / E P30
 LDSM 230	A / B / C / D / E / F / G / H P36
 LDSM 300	A / B / C / D / E / F / G / H / I P44
 LDSM 450	A / B / C / D / E / F / G / H / I P53
IRIS-BL Series	Brushless DC Motor Driver 無刷直流馬達驅動器 P62
MSD Series	Permanent Magnetic Synchronous Servo Motor Driver 永磁同步伺服馬達驅動器 P63
7700 Series	Permanent Magnetic Synchronous Servo Motor Driver 永磁同步伺服馬達驅動器 P64

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 after-sales service, everything we do is to enhance LEEDAN'S product value for various applications. Our outstanding team have extensive experience in servo drive applications, and are always ready to provide you the advanced servo drive technology.



產品應用：

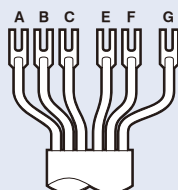
- 自動檢測
- 轉換過程
- 定長裁切(切管機械)
- 油壓/電力轉換
- 材料輸送
- 機械定位
- 機械人
- 半導體
- 紡織機械
- 印刷機
- 彈簧機
- 包裝機
- 材料試驗機
- 取代機械凸輪
- 工廠自動化系統
- 外徑研磨機
- CNC加工中心機
- 製管機
- 平面研磨機

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

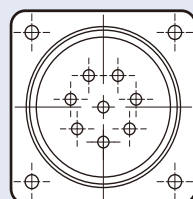
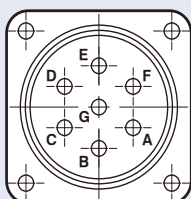
電源接頭標示 Motor Connector:

- 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

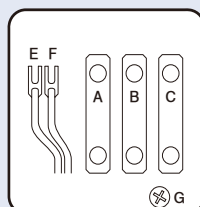
- LDSM **85**-A, B, C, D
- LDSM **125**-A, B, C, D, E
- LDSM **145**-A, B, C, D



8 PIN: **145**-C/D-only

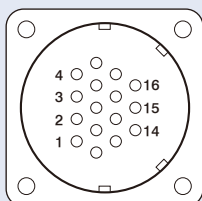
A (紅) Red	U
B (白) White	V
C (黑) Black	W
D (綠) Green	接地 Grounding
E (棕) Yellow	溫度 Temp
F (黃) Yellow	溫度 Temp

- 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



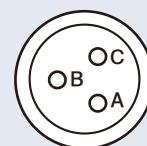
A (紅) Red	U
B (白) White	V
C (黑) Black	W
E (棕) Yellow	溫度 Temp
F (黃) Yellow	溫度 Temp
G (綠) Green	接地 Grounding

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:

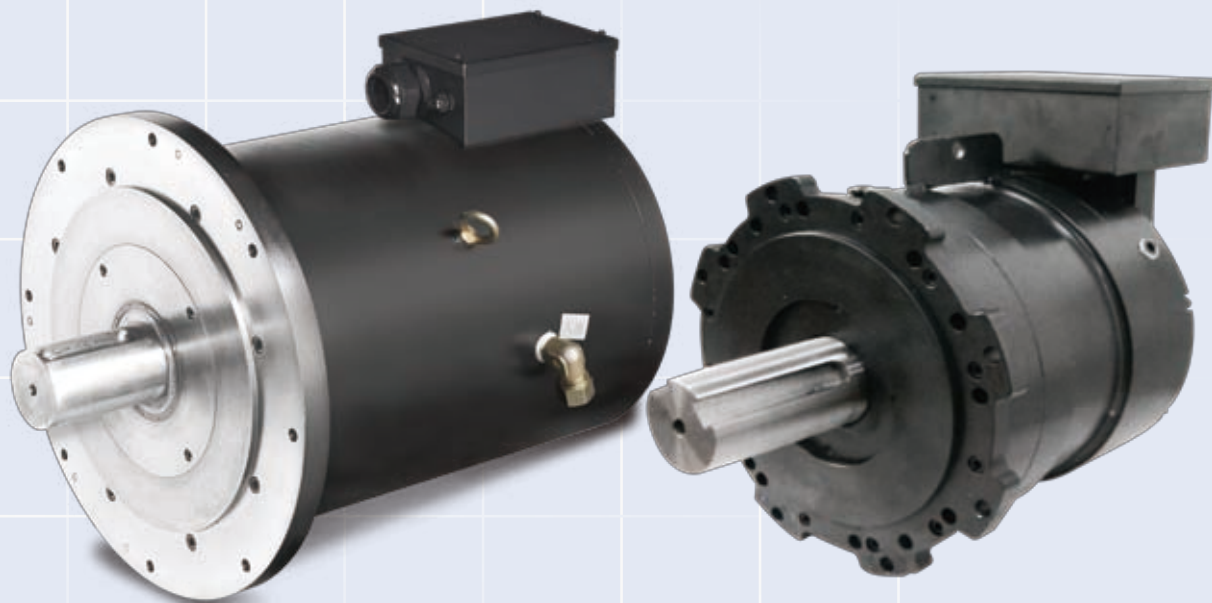


1 (A)	220V
2 (B)	220V
3 (C)	NC

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 resistane	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



產品特性：

- 採用先進電腦軟體模擬有限元素分析，效能最佳化。
- 採內循環油冷卻設計，冷卻快、效率高長時間高速運轉不會產生過熱。
- 優異化的設計，運轉更順暢、安靜。

適用於：塑膠射出機、冷式壓鑄機、
沖床以及各種需要長時間
運轉之機器。

FEATURES:

- Designed by using the advanced Finite Element analysis to achieve an optimal performance.
- Internal circulated oil cooling design features fast cooling and high efficiency. No high temperature will occur even running at high speed for a long time.
- Outstanding design ensures extra smooth and quiet running.

APPLICATIONS: Suitable for use on plastic injection molding machines, cold chamber die casting machines, punch presses and other machines requiring for long time continuous running.

高轉速型 HIGH SPEED MODEL

LDUM -
300 / 450

- 轉速 Speed : 1000, 1500, 2000 rpm
- 馬力 Motor : 15~500 Kw

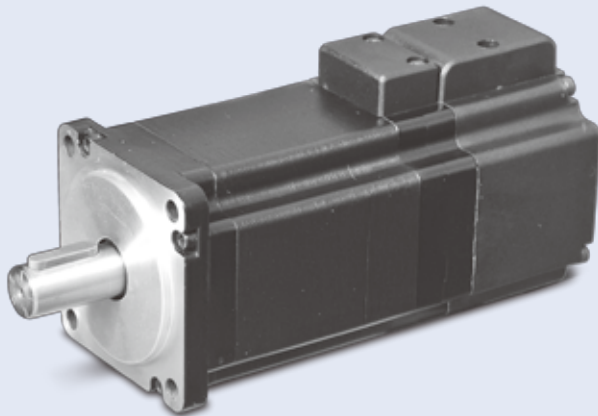
標準型 STANDARD MODEL

LDDD -
200 / 310 / 450 / 660

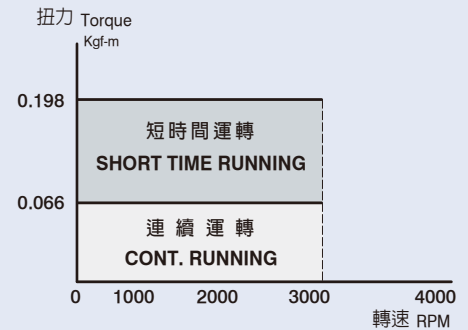
- 轉速 Speed : 50, 100, 200 rpm
- 扭力 Torque : 25~2500 kg/m

LDSM60-A

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

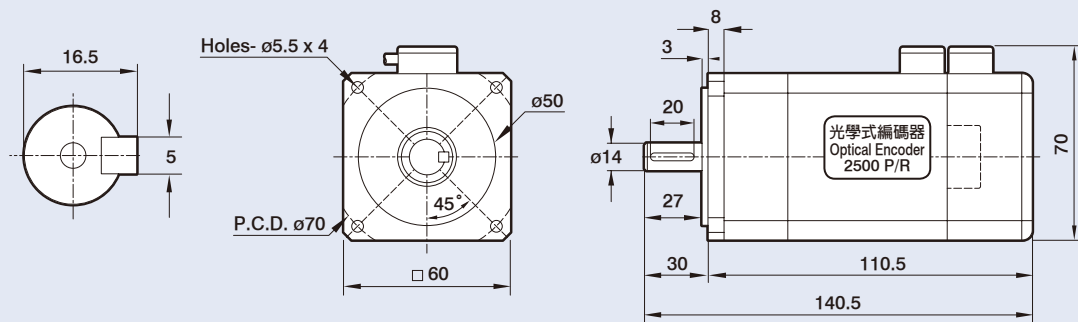


T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



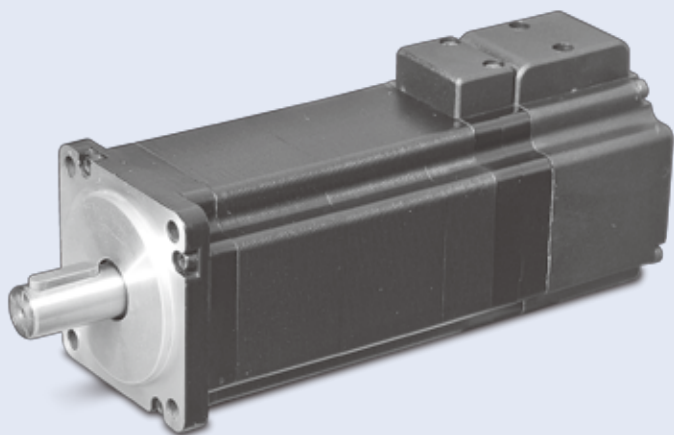
外觀尺寸圖 Dimensions:

UNIT:mm

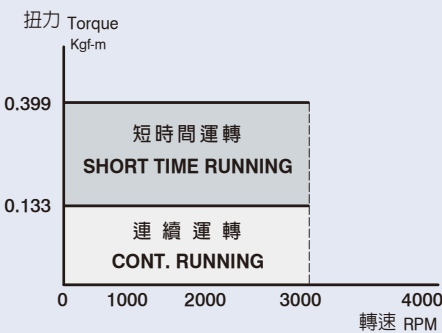


技術資料 Servo Motor Technical Datasheet:

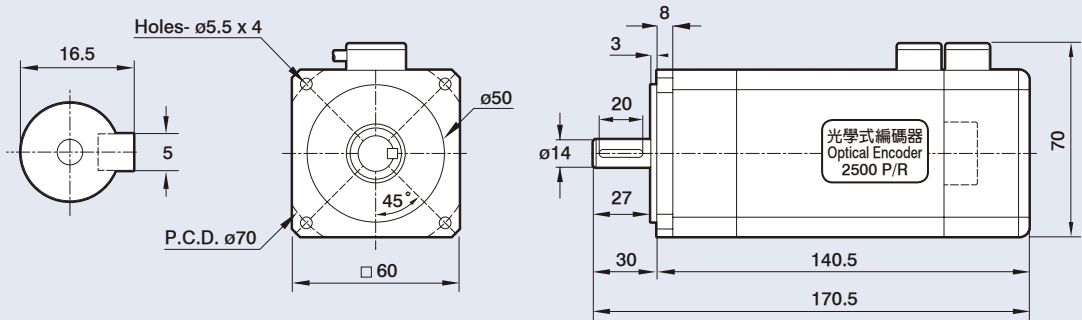
Model		LDSM60-A		
項目		符號 Code	單位 Unit	200V
額定輸出	Rated output	PR	kW	0.2
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 5
額定轉矩	Rated torque	TR	kgf-m	0.066
額定電流	Rated current	IR	A	0.9
額定轉速	Rated speed	NR	rpm	3000
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	0.198
瞬間最大電流	Instant max. current	IP	A	2.71
最大轉速	Max. speed	Nmax	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
繞組電阻值	Winding resistance	Ra	Ω	24.9
繞組電感值	Winding inductive value	La	mH	31.5
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: UNIT:mm

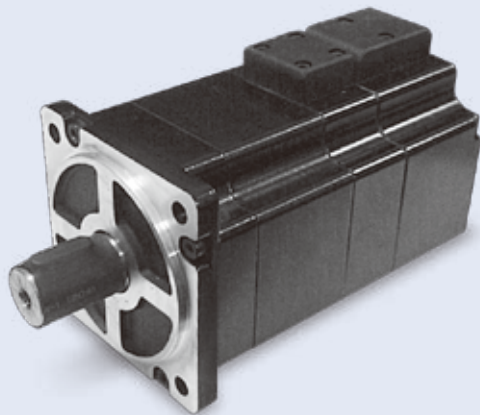


技術資料 Servo Motor Technical Datasheet:

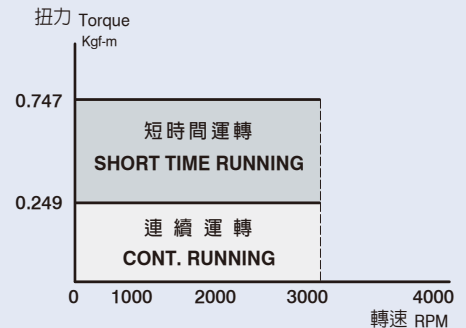
Model		LDSM60-B		
項目		符號 Code	單位 Unit	200V
額定輸出	Rated output	PR	kW	0.4
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 5
額定轉矩	Rated torque	TR	kgf-m	0.133
額定電流	Rated current	IR	A	1.82
額定轉速	Rated speed	NR	rpm	3000
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	0.399
瞬間最大電流	Instant max. current	IP	A	5.45
最大轉速	Max. speed	Nmax	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/cm²	0.295
轉子飛輪效應	Rotor flywheel effect	GD²	kg/cm²	1.18
繞組電阻值	Winding resistance	Ra	Ω	9.7
繞組電感值	Winding inductive value	La	mH	14
重量 (標準)	Weight (Standard)	W	kg	1.75

LDSM80-A

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

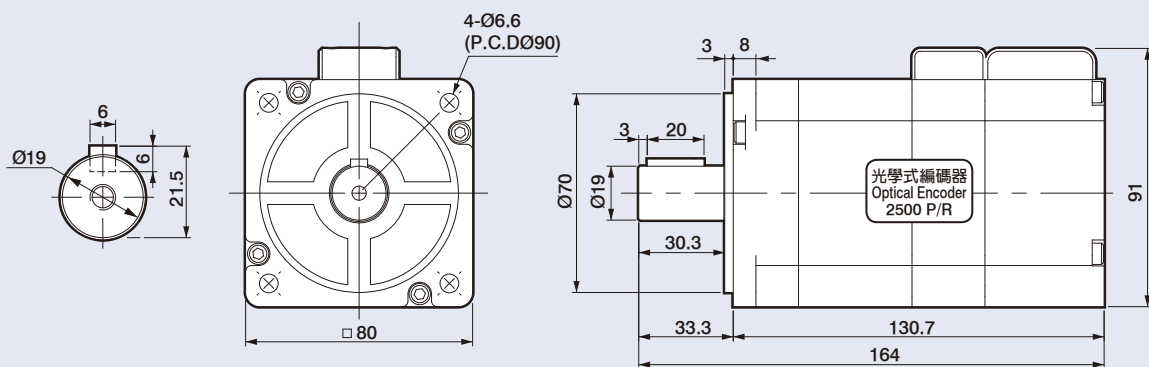


T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



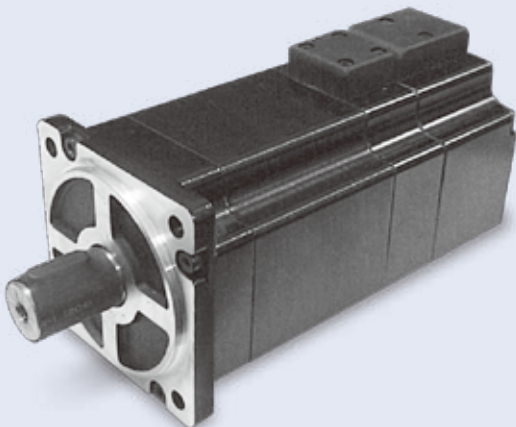
外觀尺寸圖 Dimensions:

UNIT:mm

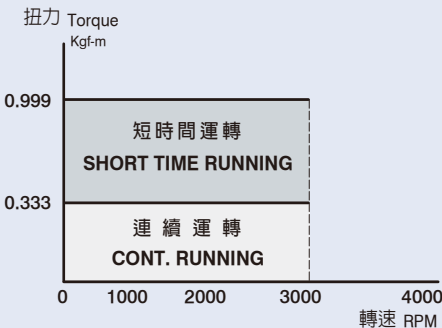


技術資料 Servo Motor Technical Datasheet:

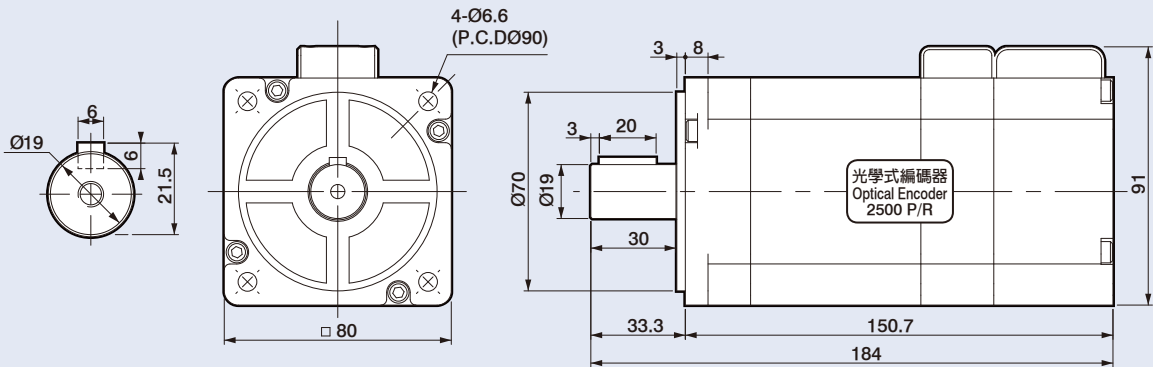
Model		LDSM80-A		
項目		符號 Code	單位 Unit	200V
額定輸出	Rated output	PR	kW	0.75
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 5
額定轉矩	Rated torque	TR	kgf-m	0.249
額定電流	Rated current	IR	A	3.4
額定轉速	Rated speed	NR	rpm	3000
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	0.747
瞬間最大電流	Instant max. current	IP	A	10.2
最大轉速	Max. speed	Nmax	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
繞組電阻值	Winding resistance	Ra	Ω	
繞組電感值	Winding inductive value	La	mH	
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

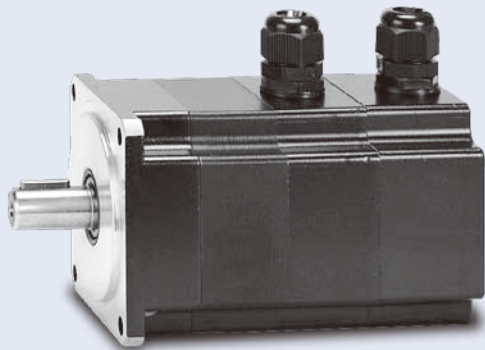


技術資料 Servo Motor Technical Datasheet:

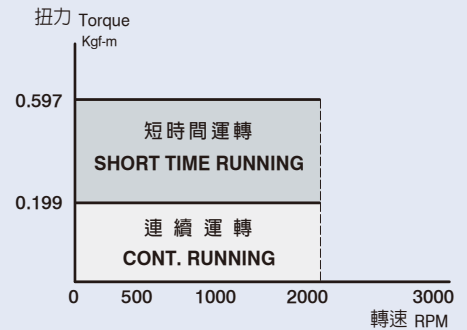
Model		LDSM80-B		
項目		符號 Code	單位 Unit	200V
額定輸出	Rated output	PR	kW	1
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 10
額定轉矩	Rated torque	TR	kgf-m	0.333
額定電流	Rated current	IR	A	4.55
額定轉速	Rated speed	NR	rpm	3000
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	0.999
瞬間最大電流	Instant max. current	IP	A	13.7
最大轉速	Max. speed	Nmax	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/cm²	2.32
轉子飛輪效應	Rotor flywheel effect	GD²	kg/cm²	9.28
繞組電阻值	Winding resistance	Ra	Ω	2.3
繞組電感值	Winding inductive value	La	mH	5.4
重量 (標準)	Weight (Standard)	W	kg	3

LDSM85-AS

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

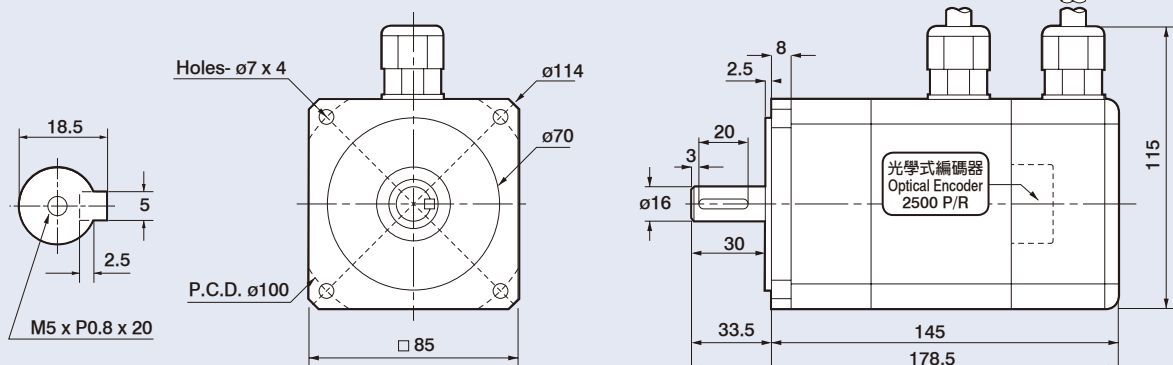


T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm



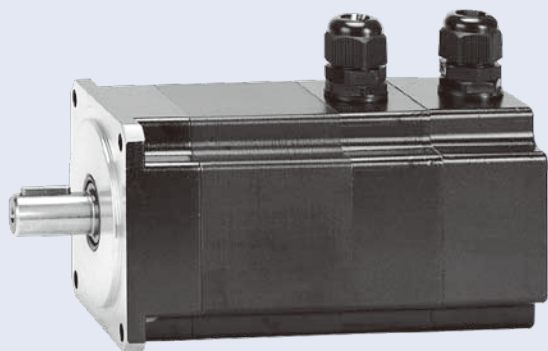
技術資料 Servo Motor Technical Datasheet:

Model		LDSM85-AS		
項目		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
繞組電阻值	Winding resistance	Ra	Ω	5.64
繞組電感值	Winding inductive value	La	mH	10.44
重量(標準)	Weight (Standard)	W	kg	3

LDSM85-BS

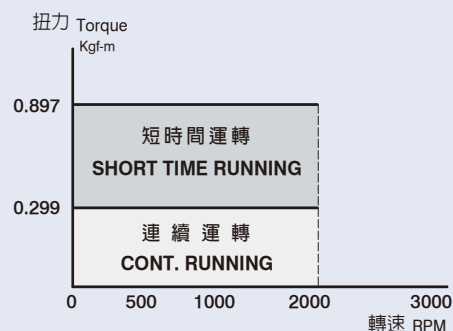
永磁同步伺服馬達

Permanent Magnetic Synchronous Servo Motor



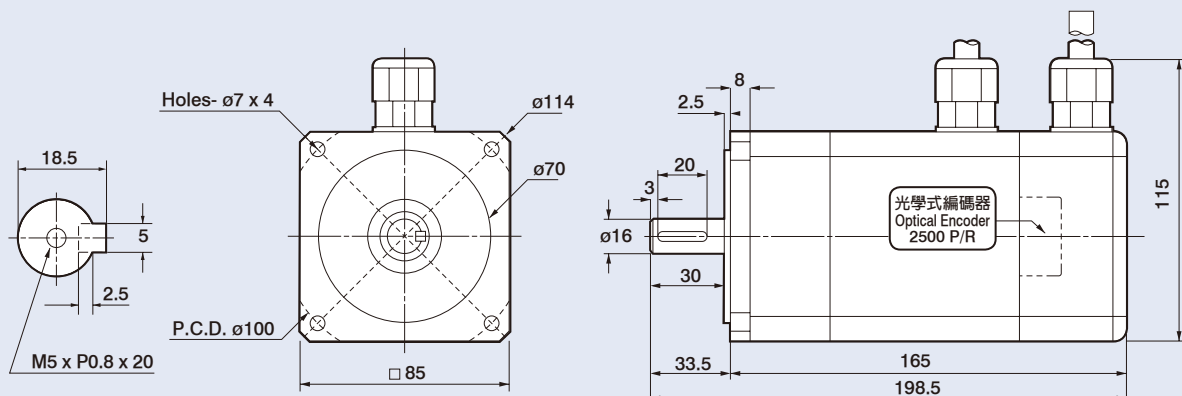
T-M 扭力轉速曲線圖

T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm



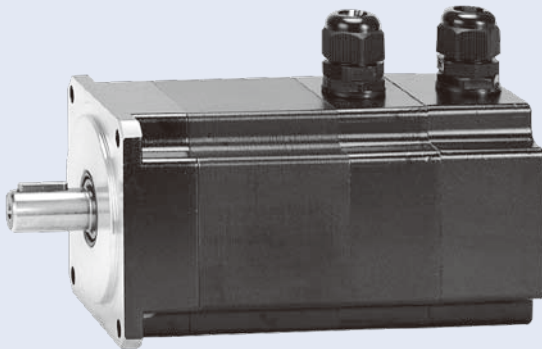
技術資料 Servo Motor Technical Datasheet:

Model		LDSM85-BS		
項目		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
繞組電阻值	Winding resistance	Ra	Ω	3.58
繞組電感值	Winding inductive value	La	mH	7.6
重量 (標準)	Weight (Standard)	W	kg	4

LDSM85-CS

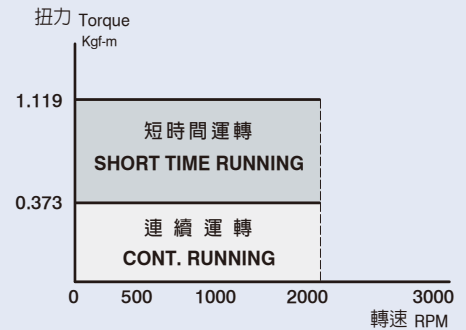
永磁同步伺服馬達

Permanent Magnetic Synchronous Servo Motor



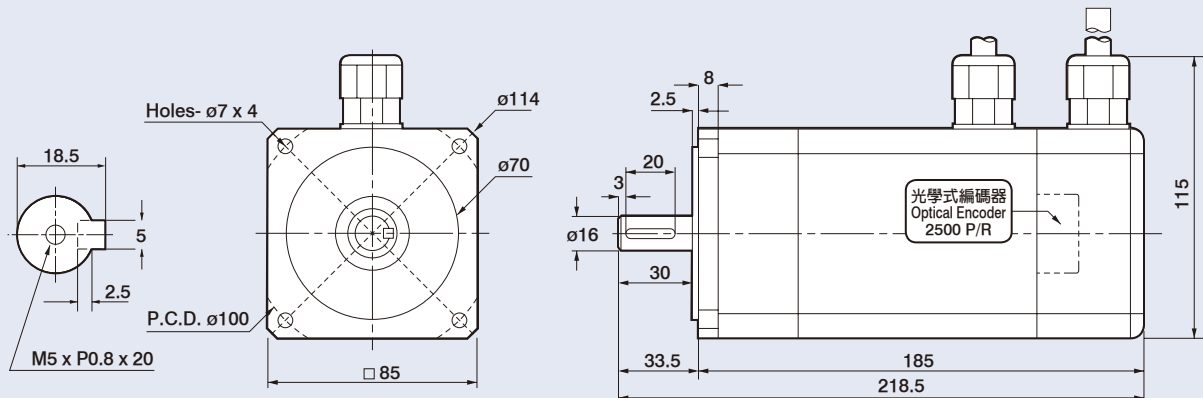
T-M 扭力轉速曲線圖

T-M Torque/Speed Diagram



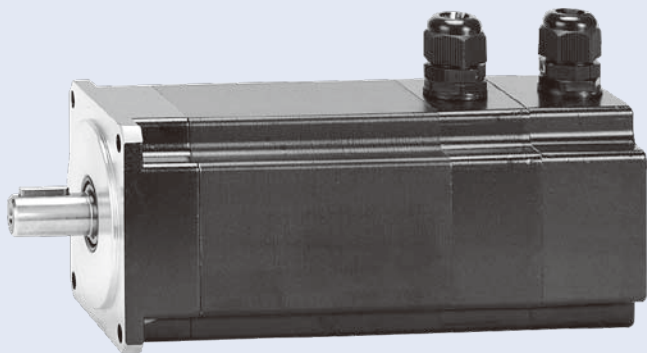
外觀尺寸圖 Dimensions:

UNIT:mm

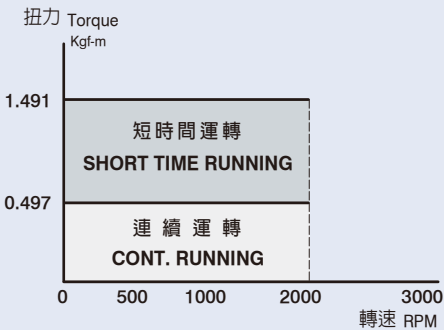


技術資料 Servo Motor Technical Datasheet:

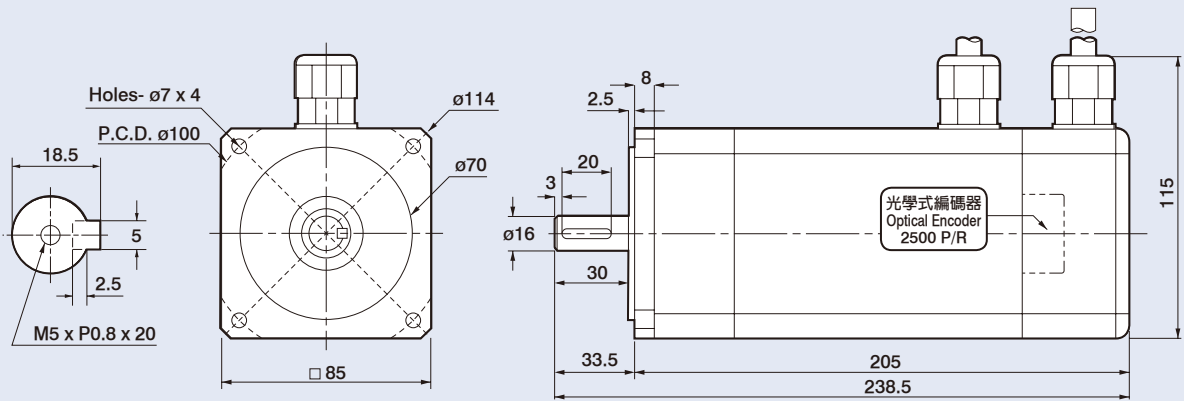
Model		LDSM85-CS		
項 目		符 號 Code	單位 Unit	200V
額定輸出	Rated output	PR	kW	0.75
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 5
額定轉矩	Rated torque	TR	Kgf-m	0.373
額定電流	Rated current	IR	A	4.53
額定轉速	Rated speed	NR	rpm	2000
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	1.119
瞬間最大電流	Instant max. current	IP	A	13.6
最大轉速	Max. speed	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
繞組電阻值	Winding resistance	Ra	Ω	2.5
繞組電感值	Winding inductive value	La	mH	5.8
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: UNIT:mm



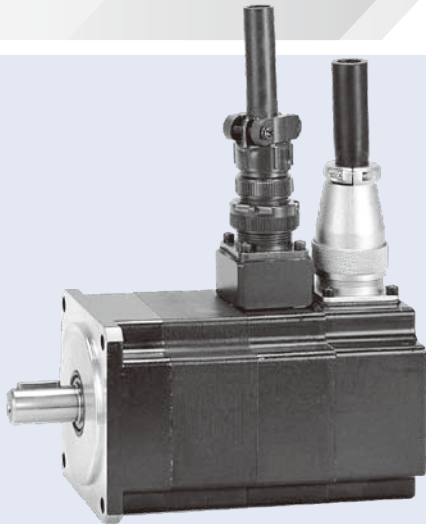
技術資料 Servo Motor Technical Datasheet:

Model		LDSM85-DS		
項目		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
繞組電阻值	Winding resistance	Ra	Ω	1.9
繞組電感值	Winding inductive value	La	mH	3.23
重量 (標準)	Weight (Standard)	W	kg	6

LDSM85-A

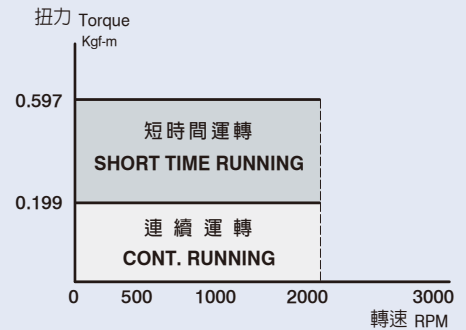
永磁同步伺服馬達

Permanent Magnetic Synchronous Servo Motor



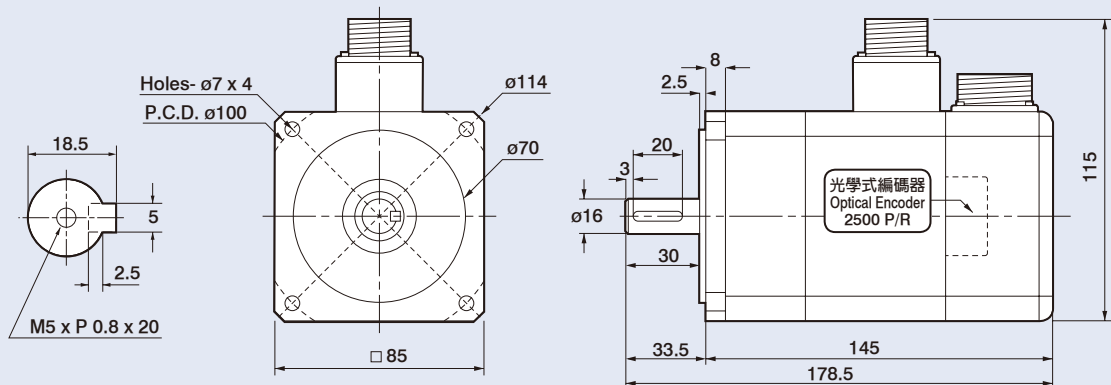
T-M 扭力轉速曲線圖

T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm



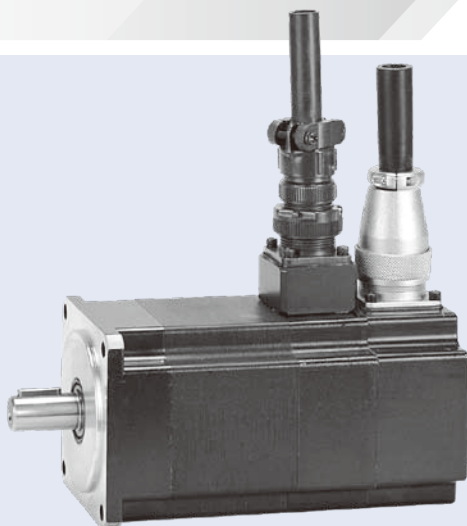
技術資料 Servo Motor Technical Datasheet:

Model		LDSM85-A		
項目		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
繞組電阻值	Winding resistance	Ra	Ω	5.64
繞組電感值	Winding inductive value	La	mH	10.44
重量(標準)	Weight (Standard)	W	kg	3

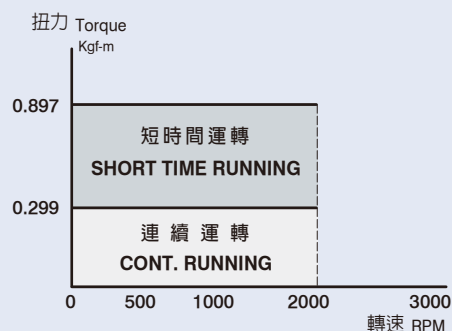
LDSM85-B

永磁同步伺服馬達

Permanent Magnetic Synchronous Servo Motor

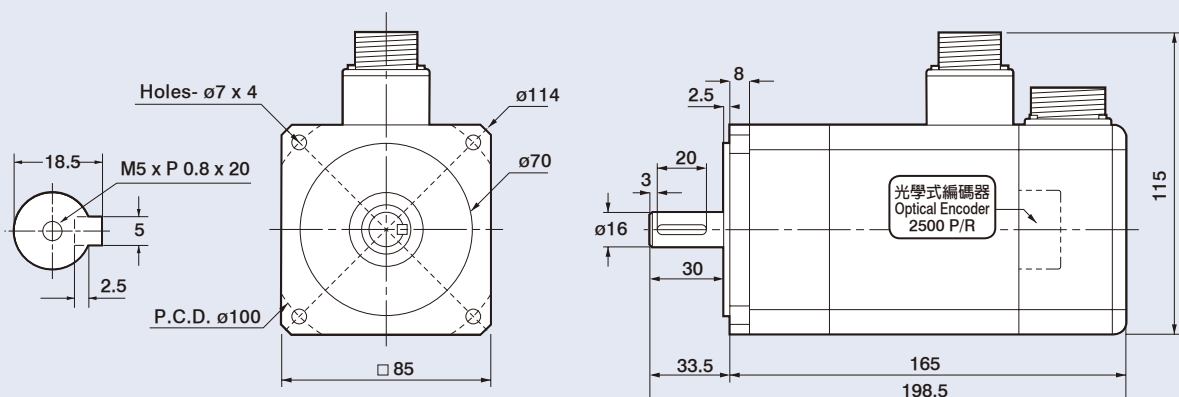


T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm



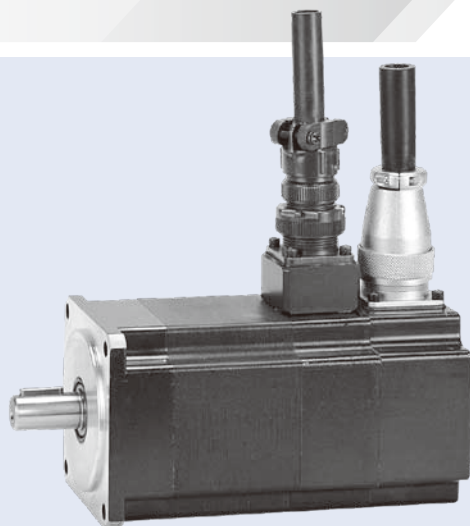
技術資料 Servo Motor Technical Datasheet:

Model		LDSM85-B		
項目		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
繞組電阻值	Winding resistance	Ra	Ω	3.58
繞組電感值	Winding inductive value	La	mH	7.6
重量 (標準)	Weight (Standard)	W	kg	4

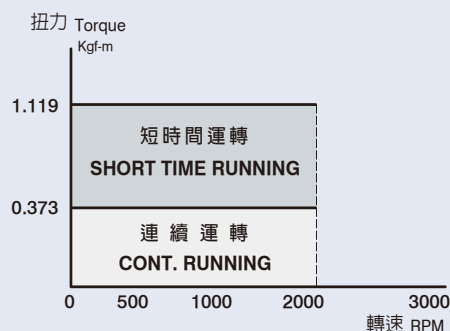
LDSM85-C

永磁同步伺服馬達

Permanent Magnetic Synchronous Servo Motor

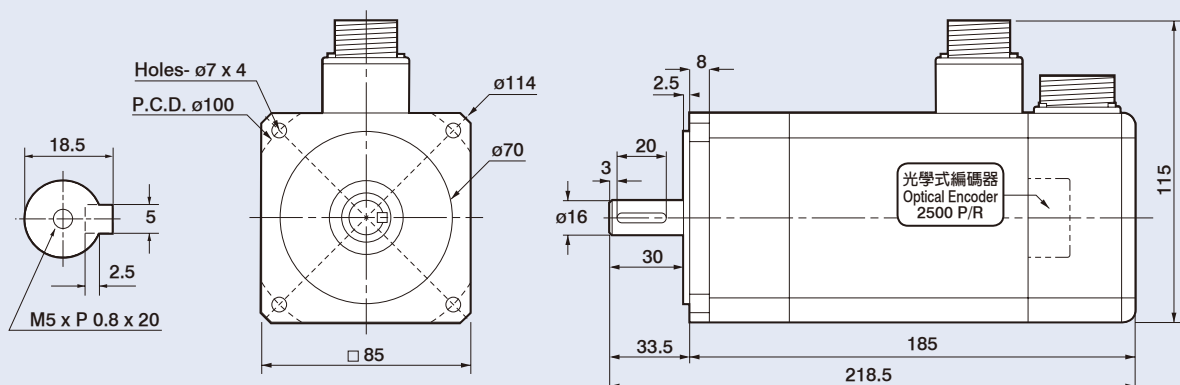


T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm



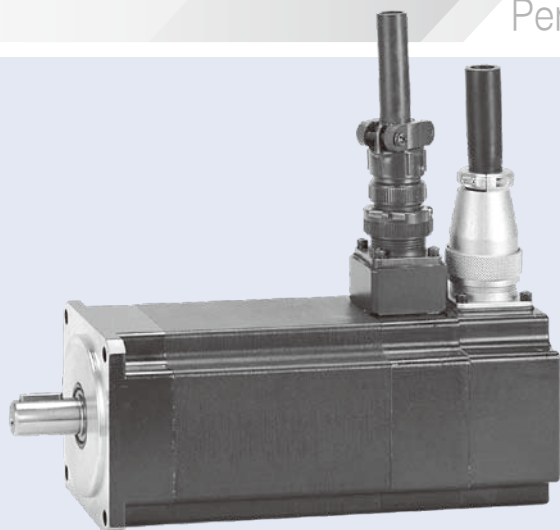
技術資料 Servo Motor Technical Datasheet:

Model		LDSM85-C		
項目		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
繞組電阻值	Winding resistance	Ra	Ω	2.5
繞組電感值	Winding inductive value	La	mH	5.8
重量 (標準)	Weight (Standard)	W	kg	5

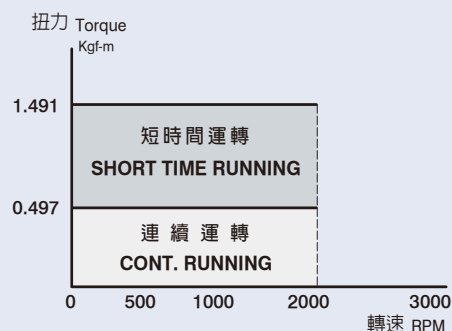
LDSM85-D

永磁同步伺服馬達

Permanent Magnetic Synchronous Servo Motor

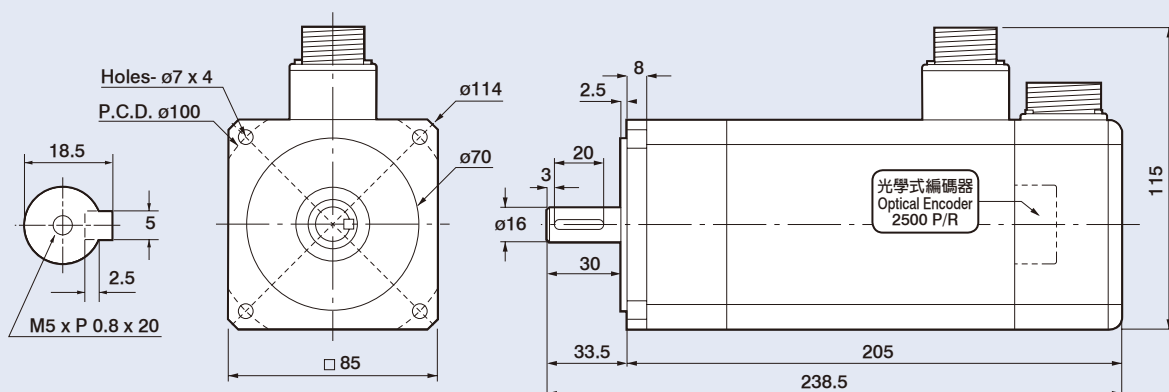


T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm

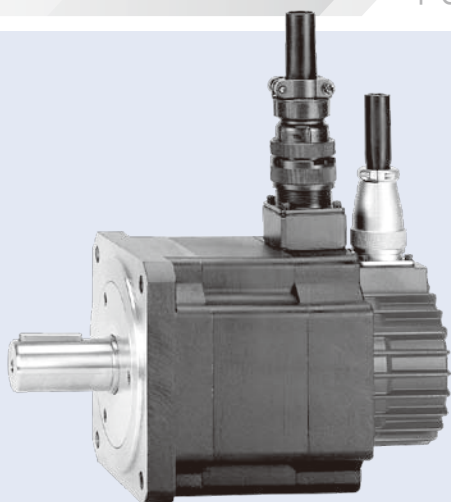


技術資料 Servo Motor Technical Datasheet:

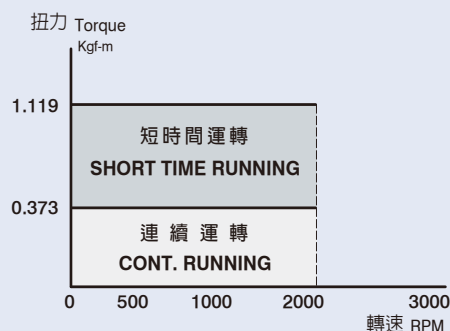
Model		LDSM85-D		
項目		符號 Code	單位 Unit	200V
額定輸出	Rated output	PR	kW	1
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 5
額定轉矩	Rated torque	TR	Kgf-m	0.497
額定電流	Rated current	IR	A	6.04
額定轉速	Rated speed	NR	rpm	2000
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	1.491
瞬間最大電流	Instant max. current	IP	A	18.1
最大轉速	Max. speed	Nmax	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
繞組電阻值	Winding resistance	Ra	Ω	1.8
繞組電感值	Winding inductive value	La	mH	4.3
重量 (標準)	Weight (Standard)	W	kg	6

LDSM125-A

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

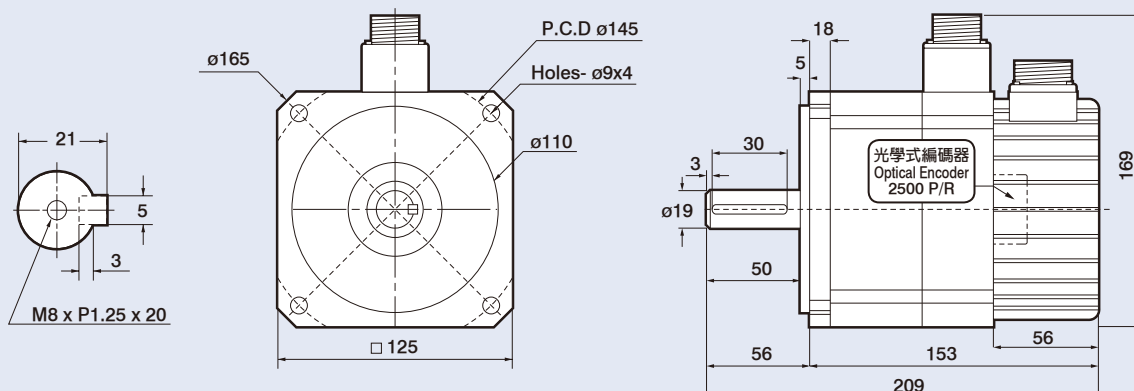


T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm



技術資料 Servo Motor Technical Datasheet:

Model		LDSM125-A			
項目		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
繞組電阻值	Winding resistance	Ra	Ω	-	-
繞組電感值	Winding inductive value	La	mH	-	-
重量 (標準)	Weight (Standard)	W	kg	5.5	5.5

LDSM125-B

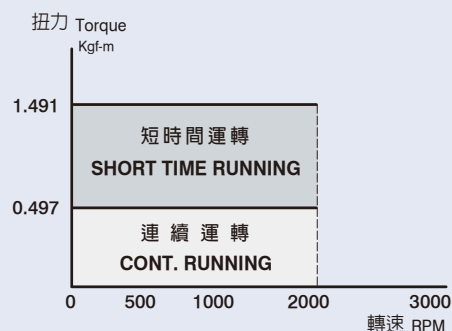
永磁同步伺服馬達

Permanent Magnetic Synchronous Servo Motor



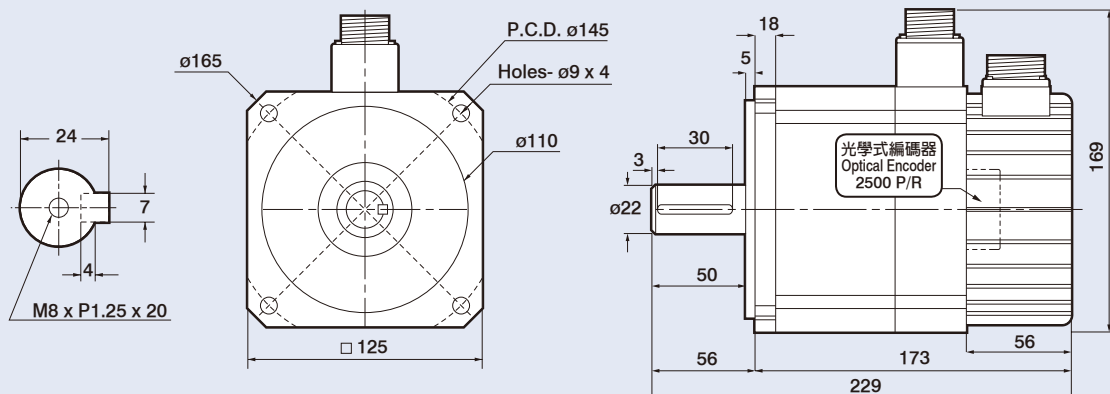
T-M 扭力轉速曲線圖

T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm



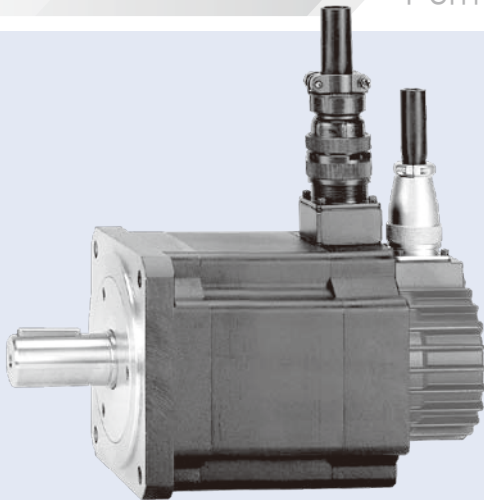
技術資料 Servo Motor Technical Datasheet:

Model		LDSM125-B			
項目		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
繞組電阻值	Winding resistance	Ra	Ω	2.18	-
繞組電感值	Winding inductive value	La	mH	7.16	-
重量 (標準)	Weight (Standard)	W	kg	6.5	6.5

LDSM125-C

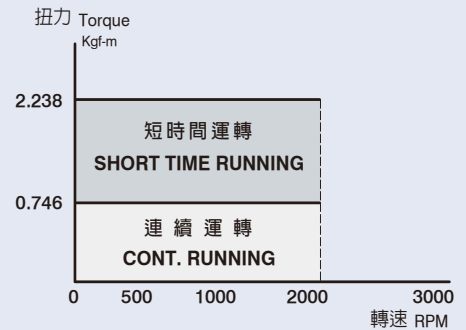
永磁同步伺服馬達

Permanent Magnetic Synchronous Servo Motor



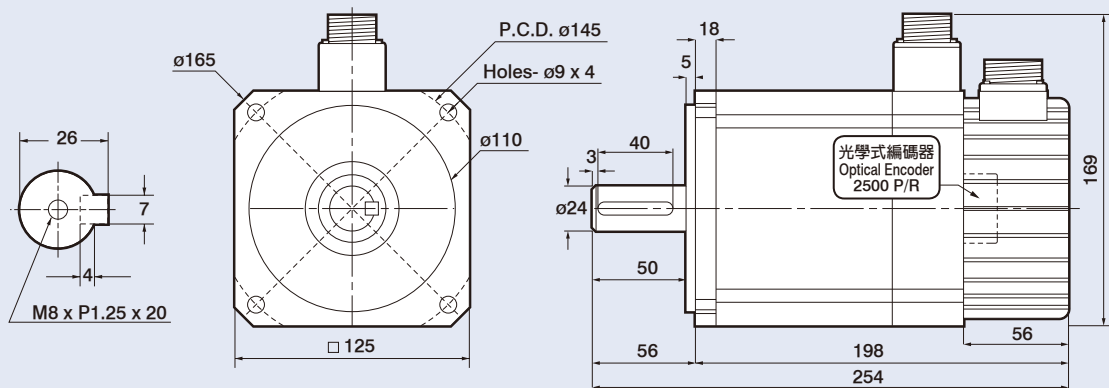
T-M 扭力轉速曲線圖

T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm



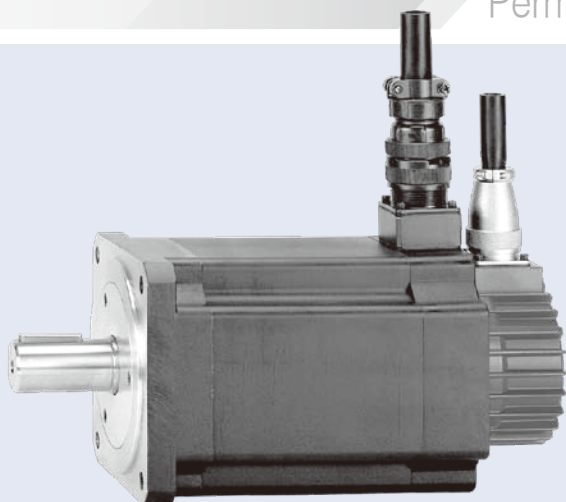
技術資料 Servo Motor Technical Datasheet:

Model		LDSM125-C			
項目		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
繞組電阻值	Winding resistance	Ra	Ω	1.25	
繞組電感值	Winding inductive value	La	mH	4.16	
重量 (標準)	Weight (Standard)	W	kg	9.4	9.4

LDSM125-D

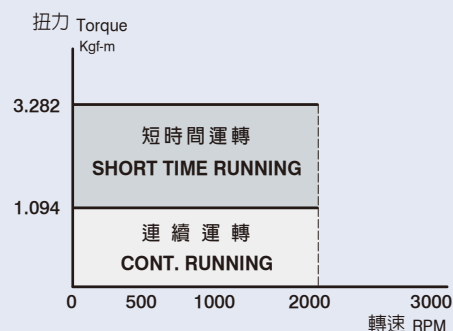
永磁同步伺服馬達

Permanent Magnetic Synchronous Servo Motor



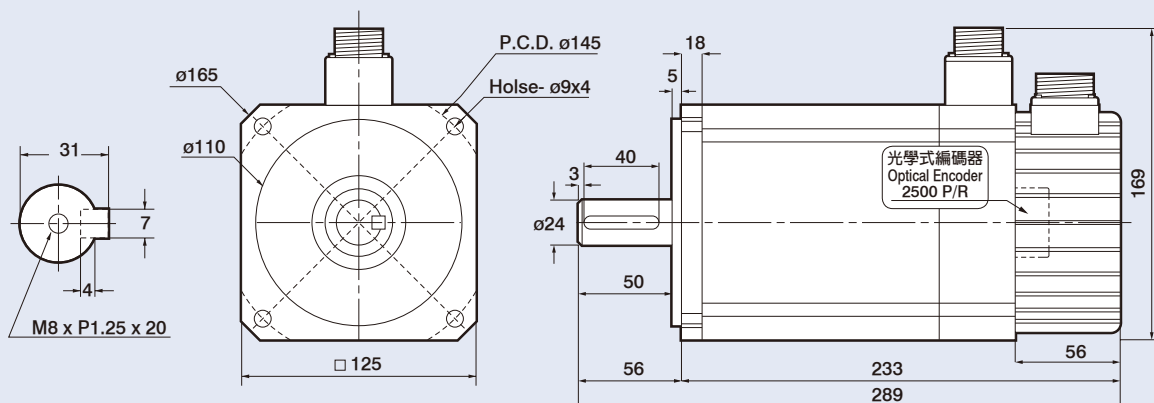
T-M 扭力轉速曲線圖

T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm



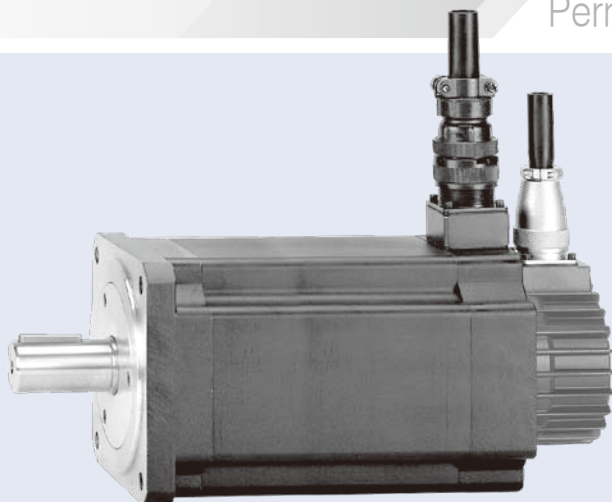
技術資料 Servo Motor Technical Datasheet:

Model		LDSM125-D			
項目		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
繞組電阻值	Winding resistance	Ra	Ω	0.838	2.75
繞組電感值	Winding inductive value	La	mH	3.3	9.25
重量 (標準)	Weight (Standard)	W	kg	12.5	12.5

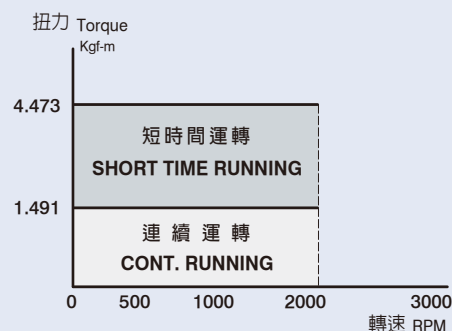
LDSM125-E

永磁同步伺服馬達

Permanent Magnetic Synchronous Servo Motor

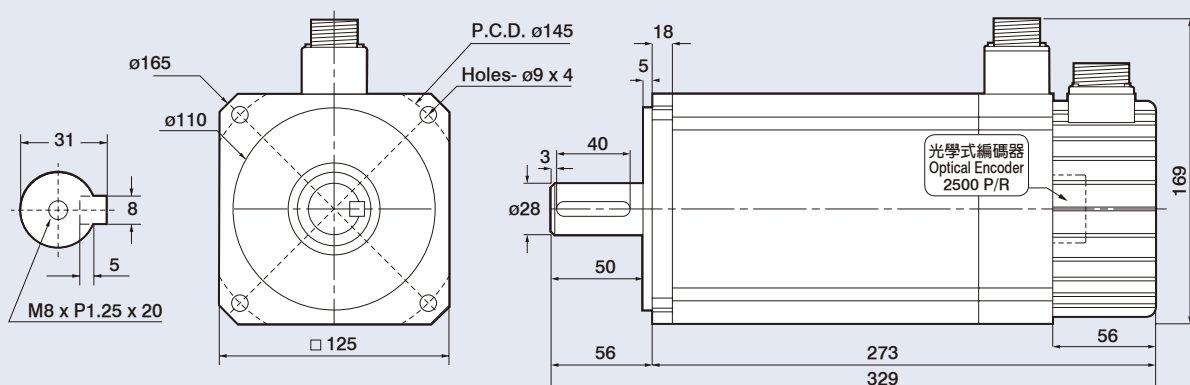


T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm



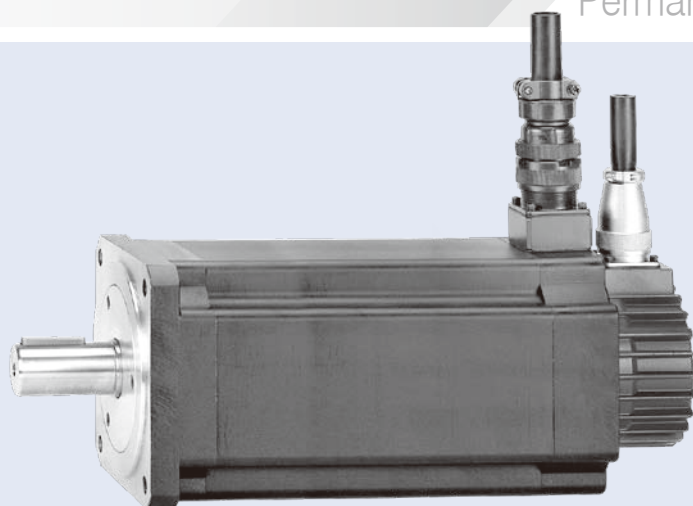
技術資料 Servo Motor Technical Datasheet:

Model		LDSM125-E			
項目		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
繞組電阻值	Winding resistance	Ra	Ω	0.67	2.23
繞組電感值	Winding inductive value	La	mH	2.09	7.61
重量 (標準)	Weight (Standard)	W	kg	16	16

LDSM125-F

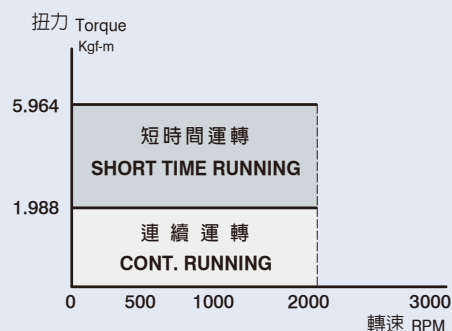
永磁同步伺服馬達

Permanent Magnetic Synchronous Servo Motor



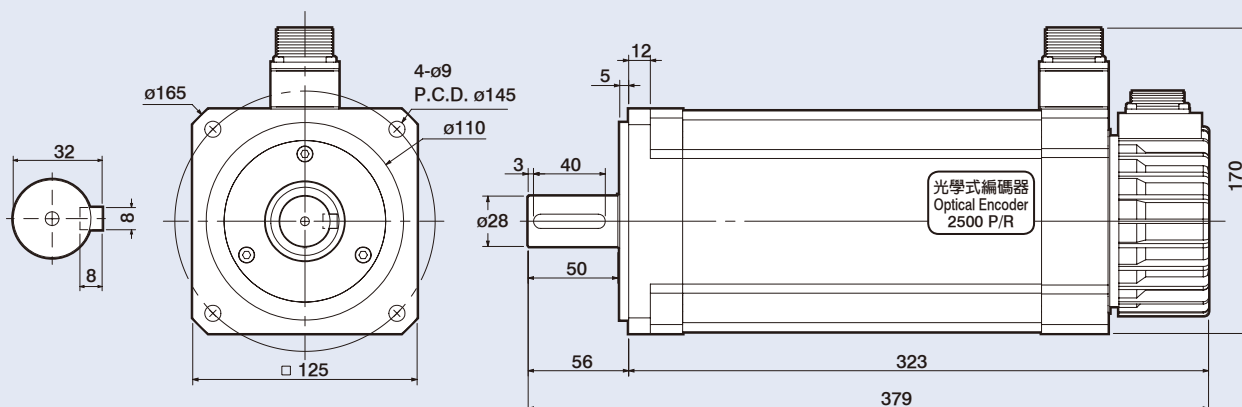
T-M 扭力轉速曲線圖

T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm

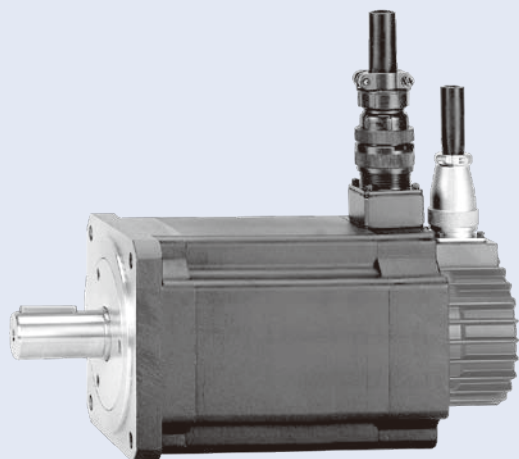


技術資料 Servo Motor Technical Datasheet:

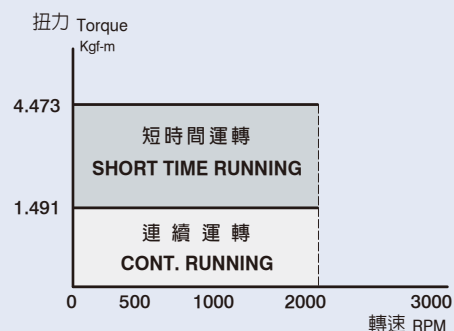
Model		LDSM125-F			
項目		符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	4	4
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 18	≥ 9
額定轉矩	Rated torque	TR	Kgf-m	1.988	1.988
額定電流	Rated current	IR	A	18.1	9.06
額定轉速	Rated speed	NR	rpm	2000	2000
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	5.964	5.964
瞬間最大電流	Instant max. current	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
繞組電阻值	Winding resistance	Ra	Ω	0.373	1.52
繞組電感值	Winding inductive value	La	mH	1.53	5.73
重量 (標準)	Weight (Standard)	W	kg	28	28

LDSM145-A

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

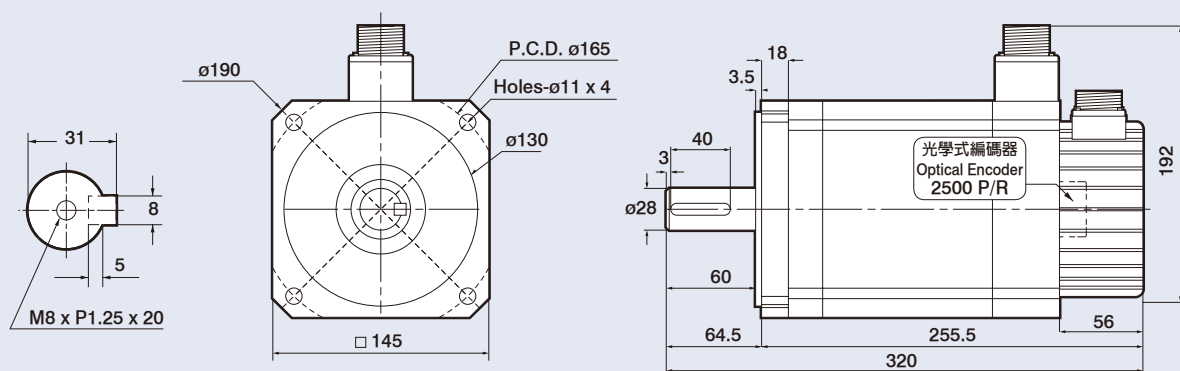


T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm



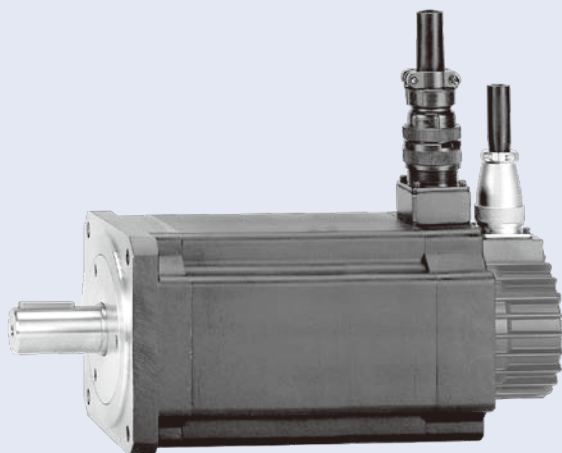
技術資料 Servo Motor Technical Datasheet:

Model		LDSM145-A			
項目		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
繞組電阻值	Winding resistance	Ra	Ω		
繞組電感值	Winding inductive value	La	mH		
重量 (標準)	Weight (Standard)	W	kg	18	18

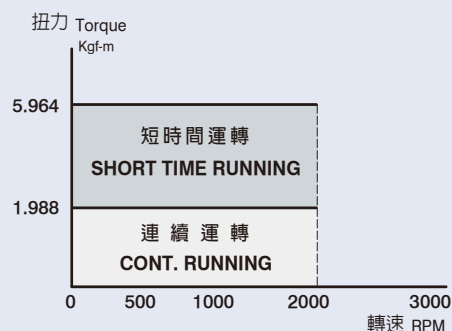
LDSM145-B

永磁同步伺服馬達

Permanent Magnetic Synchronous Servo Motor

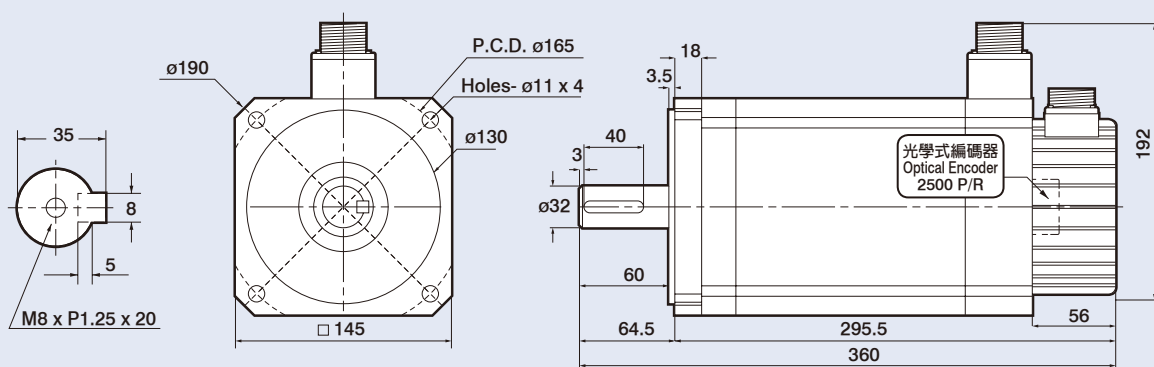


T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm



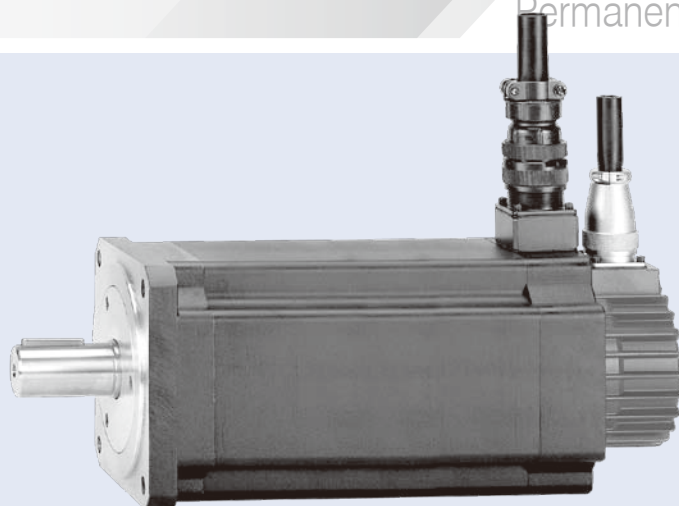
技術資料 Servo Motor Technical Datasheet:

Model		LDSM145-B			
項目		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
繞組電阻值	Winding resistance	Ra	Ω	0.22	
繞組電感值	Winding inductive value	La	mH	0.9	
重量 (標準)	Weight (Standard)	W	kg	25	25

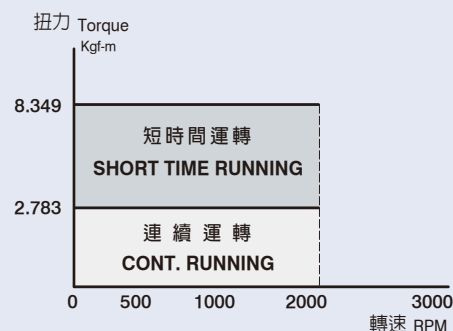
LDSM145-C

永磁同步伺服馬達

Permanent Magnetic Synchronous Servo Motor

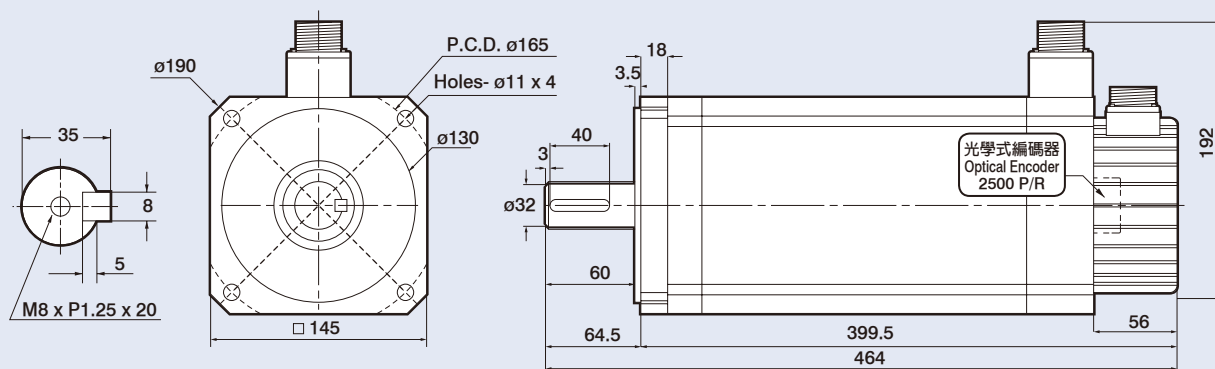


T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm



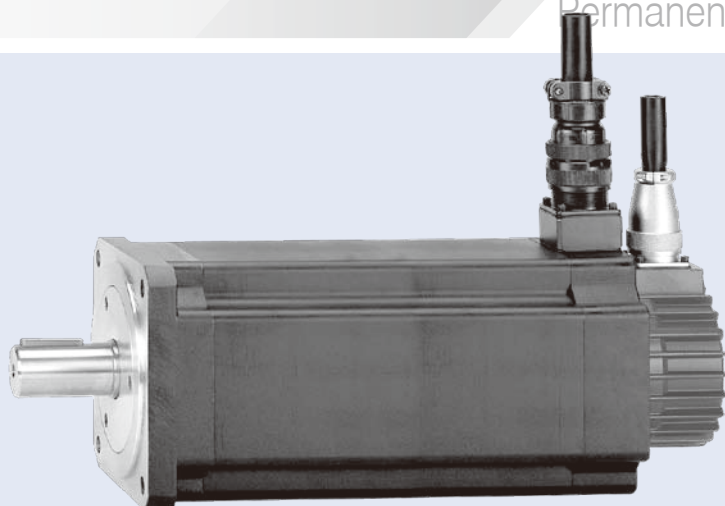
技術資料 Servo Motor Technical Datasheet:

Model		LDSM145-C			
項目		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
繞組電阻值	Winding resistance	Ra	Ω	0.17	
繞組電感值	Winding inductive value	La	mH	0.86	
重量 (標準)	Weight (Standard)	W	kg	35	35

LDSM145-D

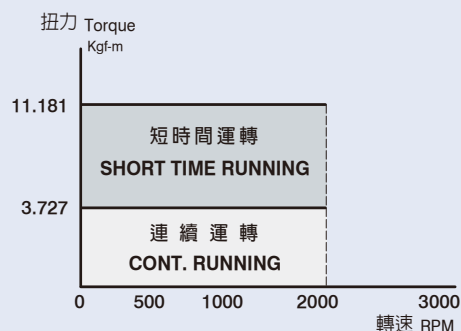
永磁同步伺服馬達

Permanent Magnetic Synchronous Servo Motor



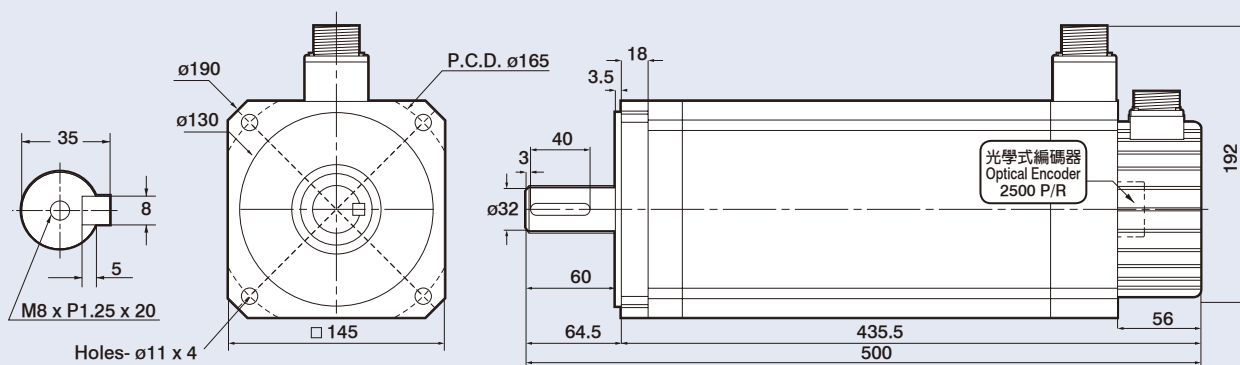
T-M 扭力轉速曲線圖

T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm

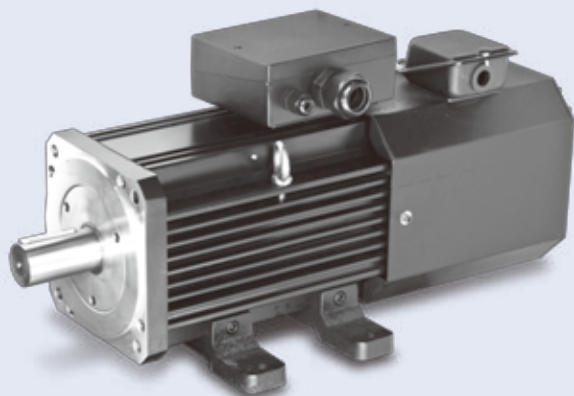


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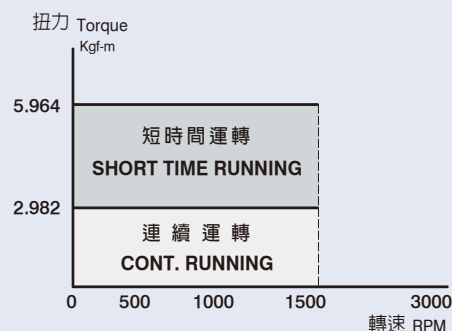
Model		LDSM145-D			
項目		符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	7.5	7.5
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 32	≥ 17
額定轉矩	Rated torque	TR	Kgf·m	3.727	3.727
額定電流	Rated current	IR	A	34	17
額定轉速	Rated speed	NR	rpm	2000	2000
瞬間最大轉矩	Instant max. torque	TP	Kgf·m	11.181	11.181
瞬間最大電流	Instant max. 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
繞組電阻值	Winding resistance	Ra	Ω	0.13	
繞組電感值	Winding inductive value	La	mH	0.7	
重量 (標準)	Weight (Standard)	W	kg	45	45

LDSM190-A

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

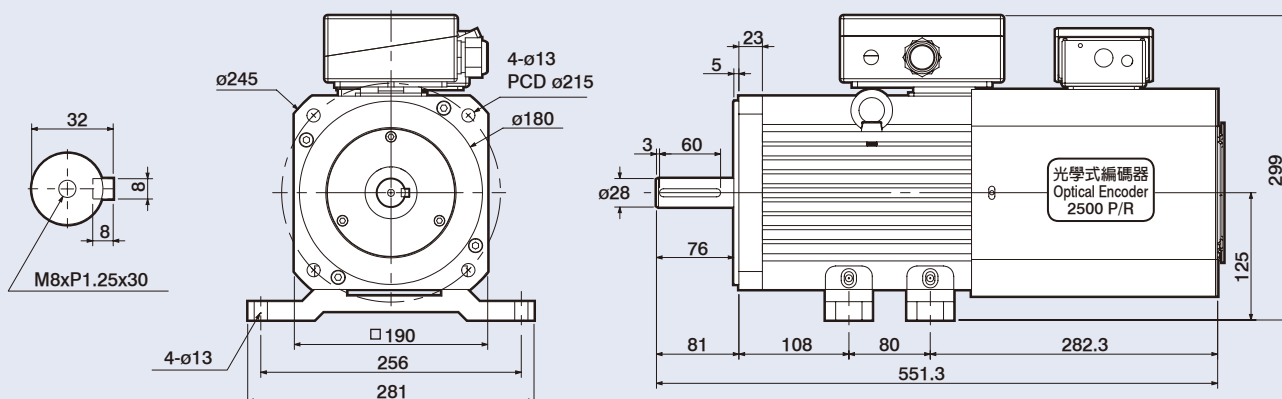


T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm



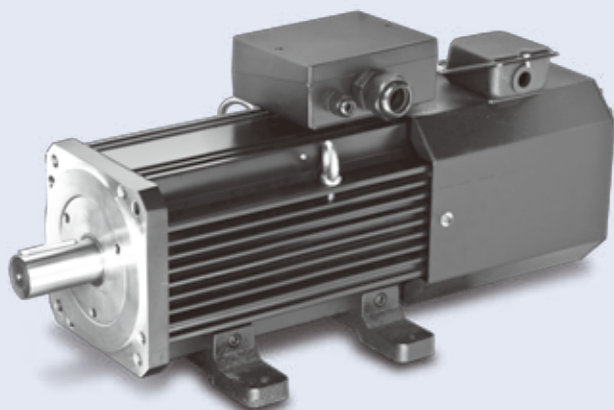
技術資料 Servo Motor Technical Datasheet:

Model		LDSM190-A			
項目		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
繞組電阻值	Winding resistance	Ra	Ω	0.515	
繞組電感值	Winding inductive value	La	mH	3.742	
重量(標準)	Weight (Standard)	W	kg	38	38

LDSM190-B

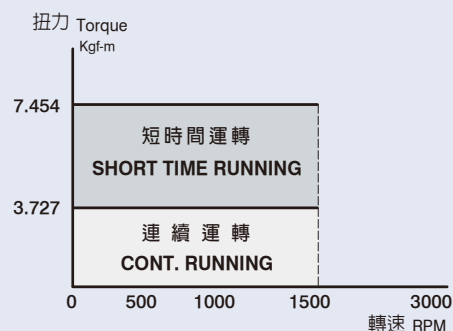
永磁同步伺服馬達

Permanent Magnetic Synchronous Servo Motor



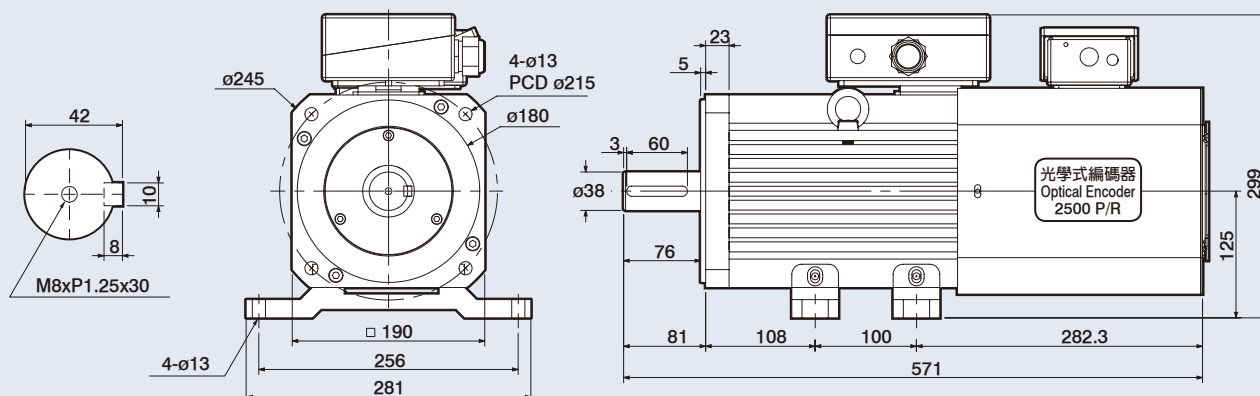
T-M 扭力轉速曲線圖

T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm

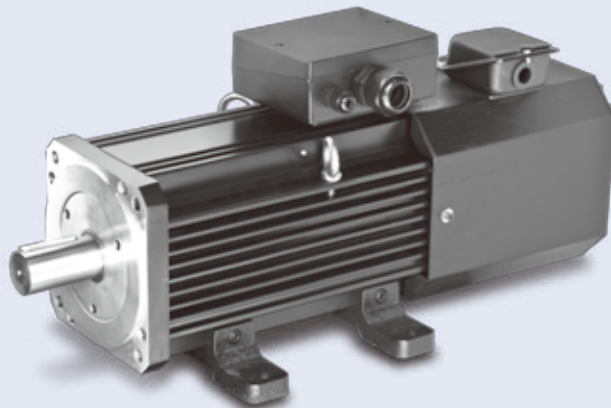


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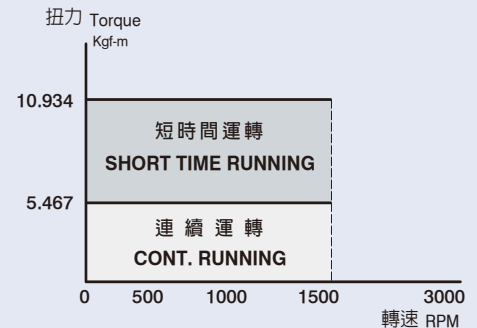
Model		LDSM190-B			
項目		符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	5.5	5.5
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 21	≥ 11
額定轉矩	Rated torque	TR	Kgf·m	3.727	3.727
額定電流	Rated current	IR	A	21.7	10.7
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf·m	7.454	7.454
瞬間最大電流	Instant max. 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
繞組電阻值	Winding resistance	Ra	Ω		
繞組電感值	Winding inductive value	La	mH		
重量 (標準)	Weight (Standard)	W	kg	43	43

LDSM190-C

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

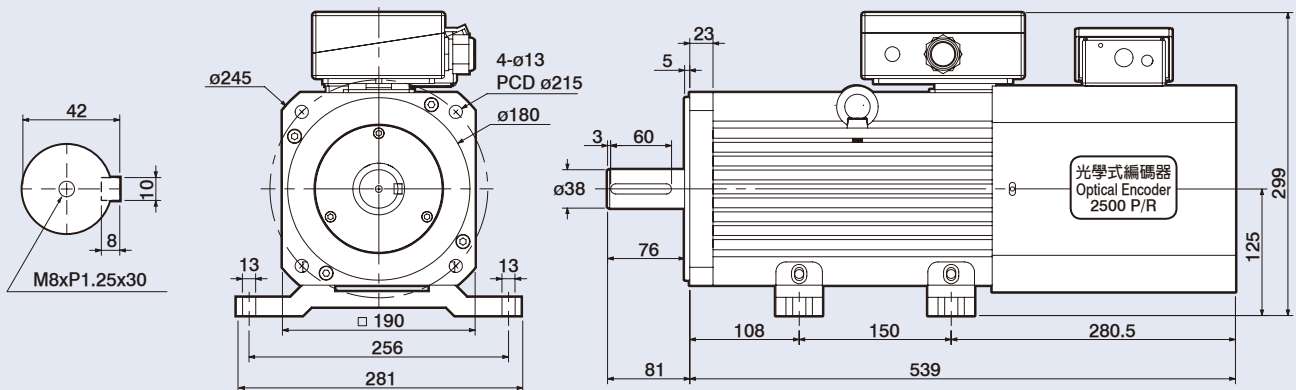


T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

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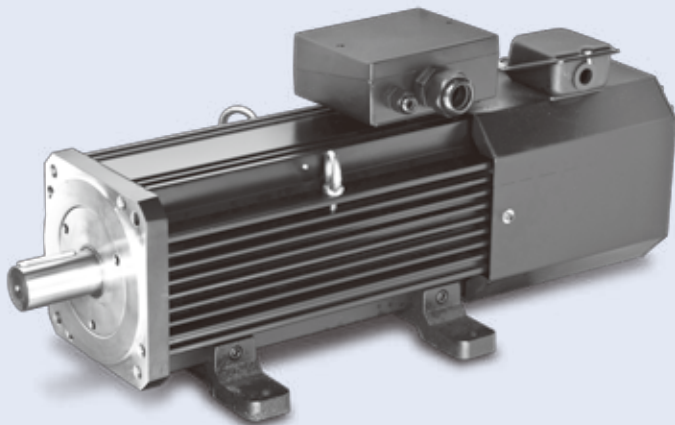


技術資料 Servo Motor Technical Datasheet:

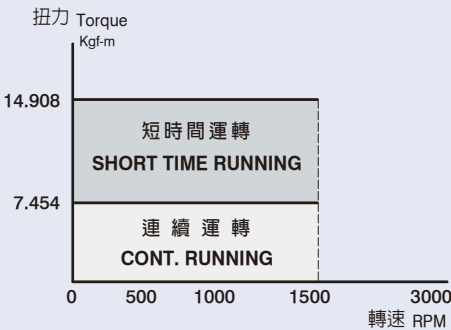
Model		LDSM190-C			
項目		符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	8.2	8.2
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 32	≥ 16
額定轉矩	Rated torque	TR	Kgf·m	5.467	5.467
額定電流	Rated current	IR	A	32.1	15.7
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf·m	10.934	10.934
瞬間最大電流	Instant max. 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
繞組電阻值	Winding resistance	Ra	Ω		0.764
繞組電感值	Winding inductive value	La	mH		6.44
重量 (標準)	Weight (Standard)	W	kg	53	53

LDSM190-D

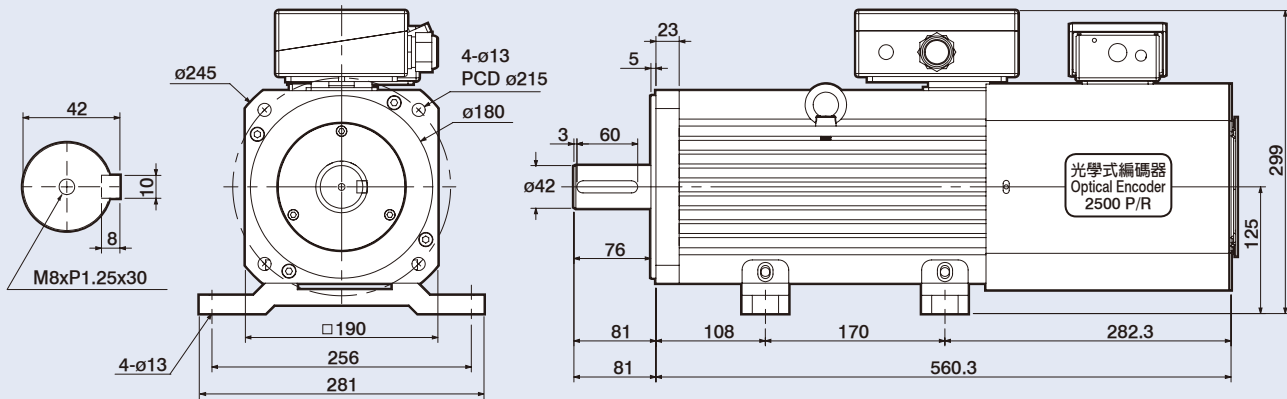
永磁同步伺服馬達 Permanent Magnetic Synchronous Servo Motor



T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions: UNIT:mm

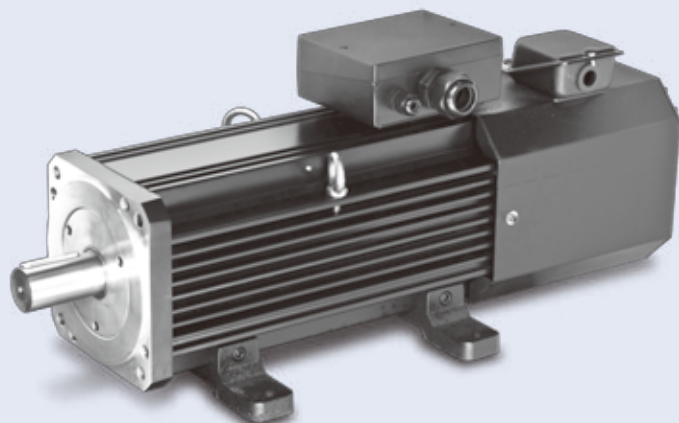


技術資料 Servo Motor Technical Datasheet:

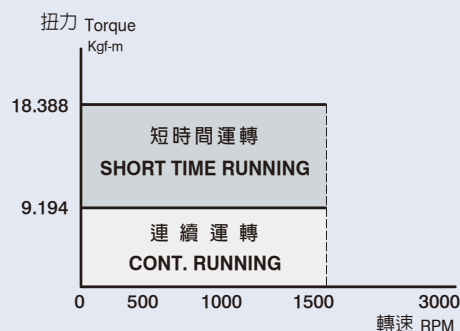
Model		LDSM190-D			
項目		符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	11.2	11.2
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 85	≥ 43
額定轉矩	Rated torque	TR	Kgf·m	7.454	7.454
額定電流	Rated current	IR	A	43.8	21.4
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf·m	14.908	14.908
瞬間最大電流	Instant 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
繞組電阻值	Winding resistance	Ra	Ω		0.837
繞組電感值	Winding inductive value	La	mH		6.515
重量 (標準)	Weight (Standard)	W	kg	57	57

LDSM190-K

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

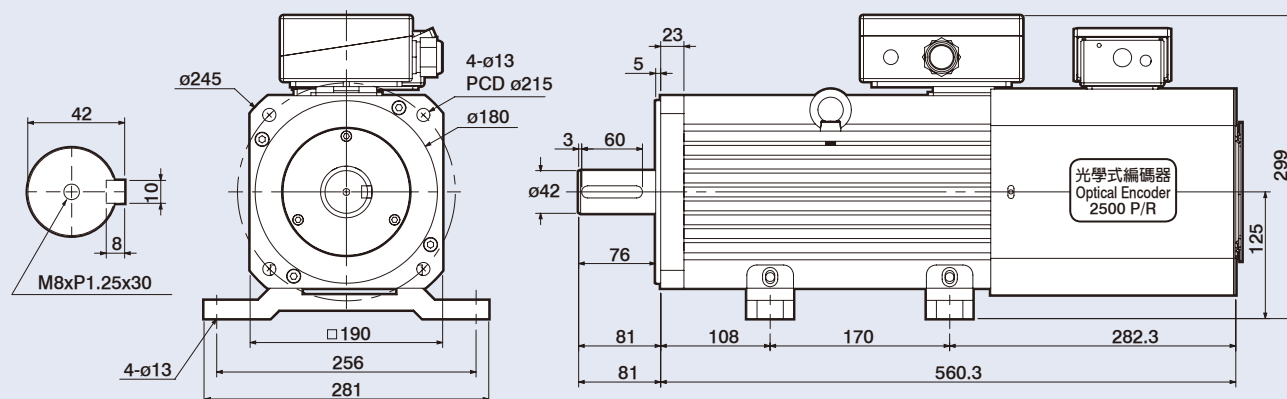


T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm

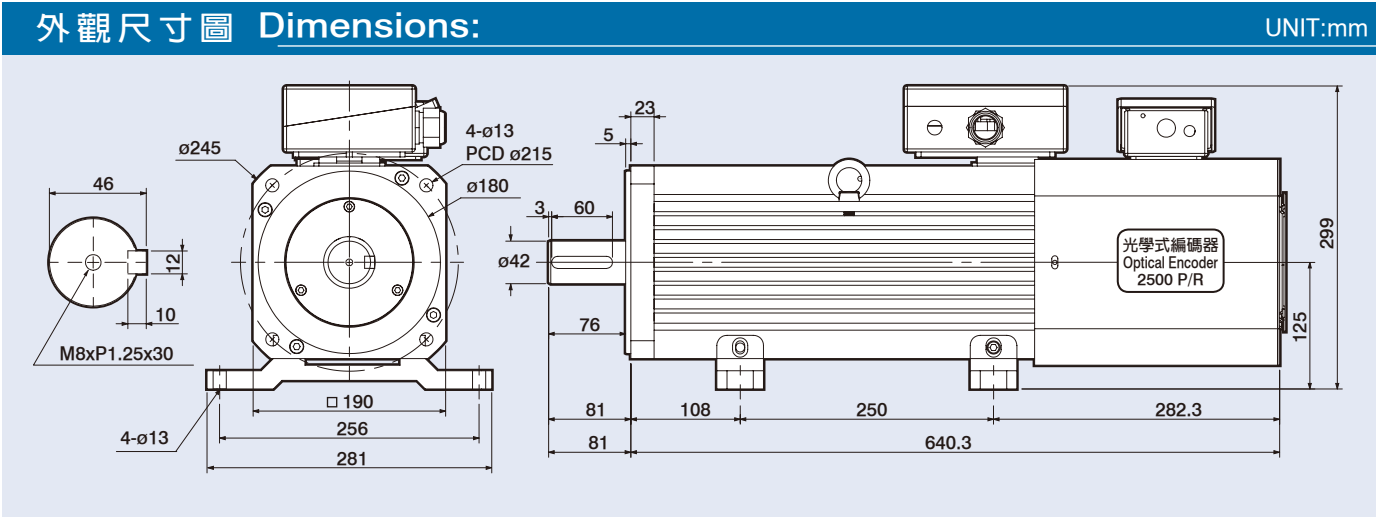
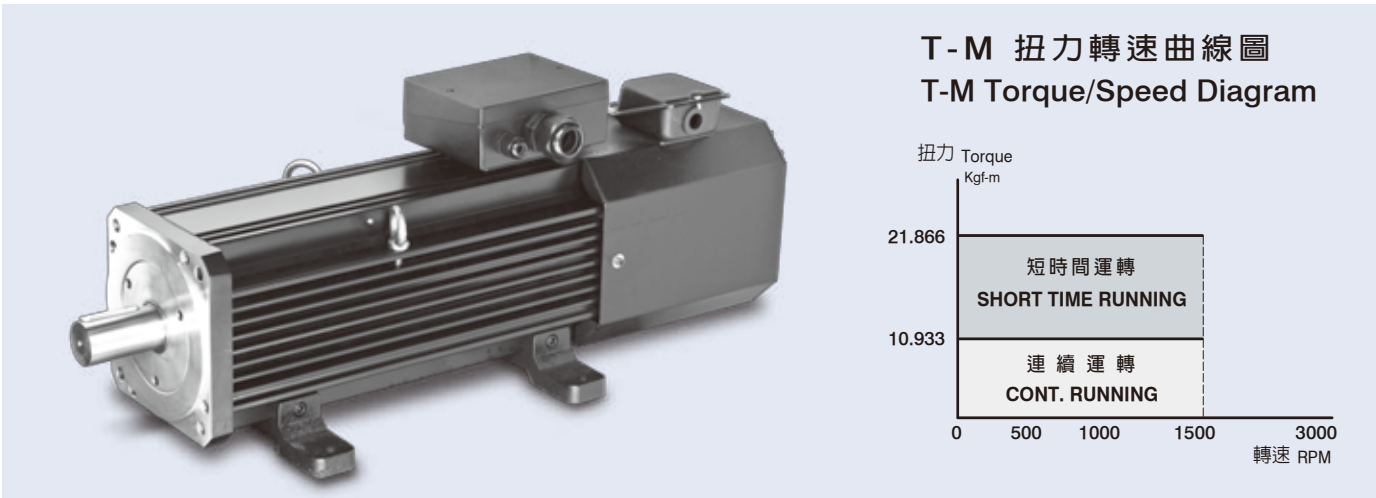


技術資料 Servo Motor Technical Datasheet:

Model		LDSM190-K			
項目		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
繞組電阻值	Winding resistance	Ra	Ω	0.238	0.741
繞組電感值	Winding inductive value	La	mH	1.23	4.89
重量(標準)	Weight (Standard)	W	kg	60	60

LDSM190-E

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

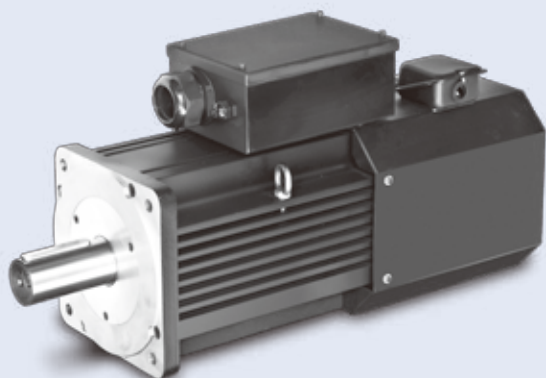


技術資料 Servo Motor Technical Datasheet:

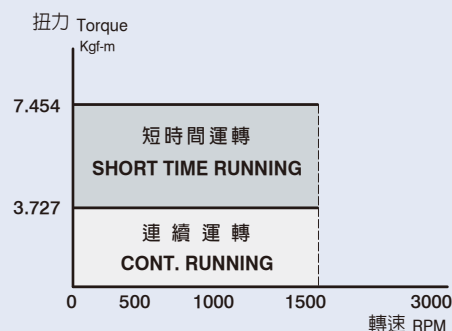
Model		LDSM190-E			
項目		符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	16.5	16.5
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 63	≥ 32
額定轉矩	Rated torque	TR	Kgf-m	10.933	10.933
額定電流	Rated current	IR	A	64.3	31.5
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	21.866	21.866
瞬間最大電流	Instant 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
繞組電阻值	Winding resistance	Ra	Ω	0.146	0.595
繞組電感值	Winding inductive value	La	mH	1.141	3.641
重量 (標準)	Weight (Standard)	W	kg	67	67

LDSM230-A

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

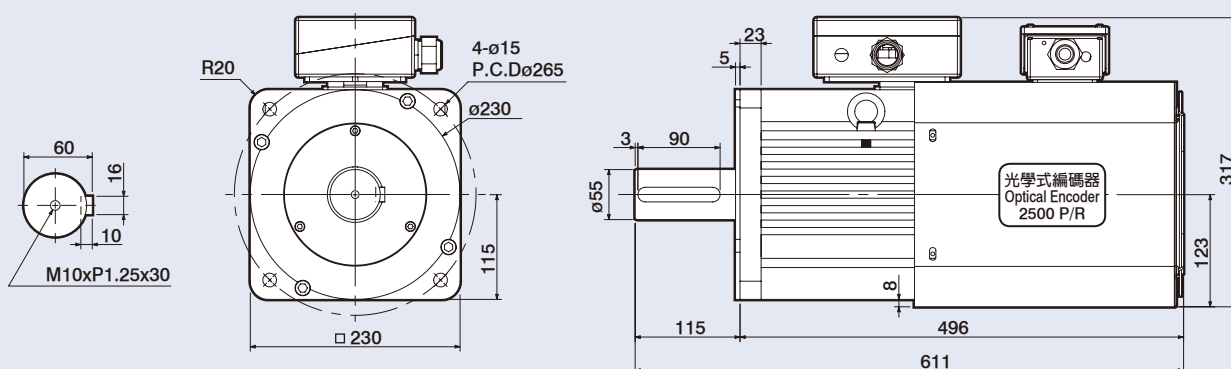


T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm



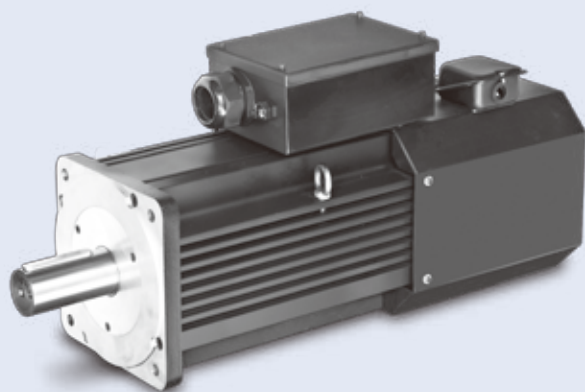
技術資料 Servo Motor Technical Datasheet:

Model		LDSM230-A			
項目		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	≥ 22	≥ 11
額定轉矩	Rated torque	TR	Kgf-m	3.727	3.727
額定電流	Rated current	IR	A	27.2	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	40.8	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	125.44	125.44
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	501.76	501.76
繞組電阻值	Winding resistance	Ra	Ω		
繞組電感值	Winding inductive value	La	mH		
重量 (標準)	Weight (Standard)	W	kg	55	55

LDSM230-B

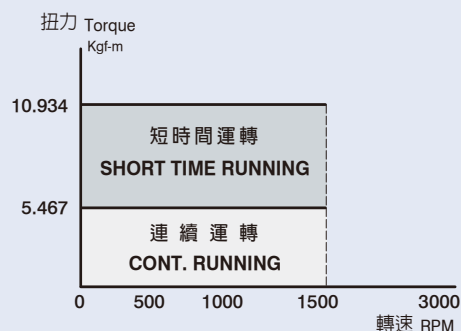
永磁同步伺服馬達

Permanent Magnetic Synchronous Servo Motor



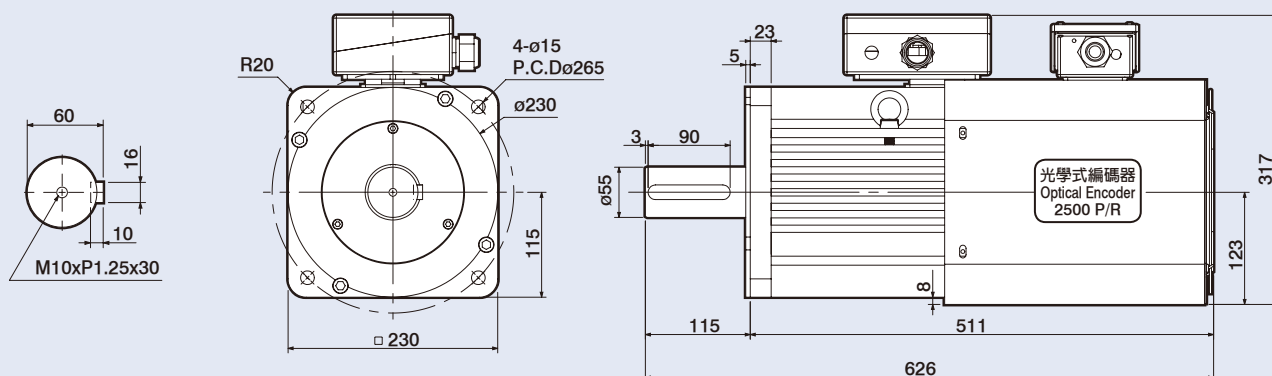
T-M 扭力轉速曲線圖

T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm



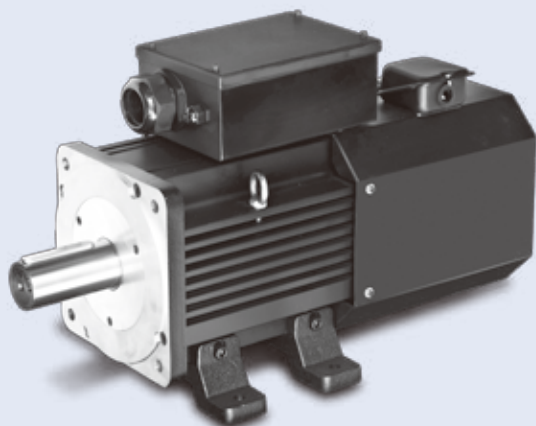
技術資料 Servo Motor Technical Datasheet:

Model		LDSM230-B			
項目		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	≥ 31	≥ 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	147.7	147.7
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	590.8	590.8
繞組電阻值	Winding resistance	Ra	Ω		
繞組電感值	Winding inductive value	La	mH		
重量 (標準)	Weight (Standard)	W	kg	59	59

LDSM230-C

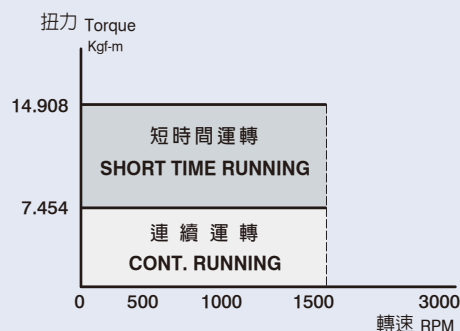
永磁同步伺服馬達

Permanent Magnetic Synchronous Servo Motor



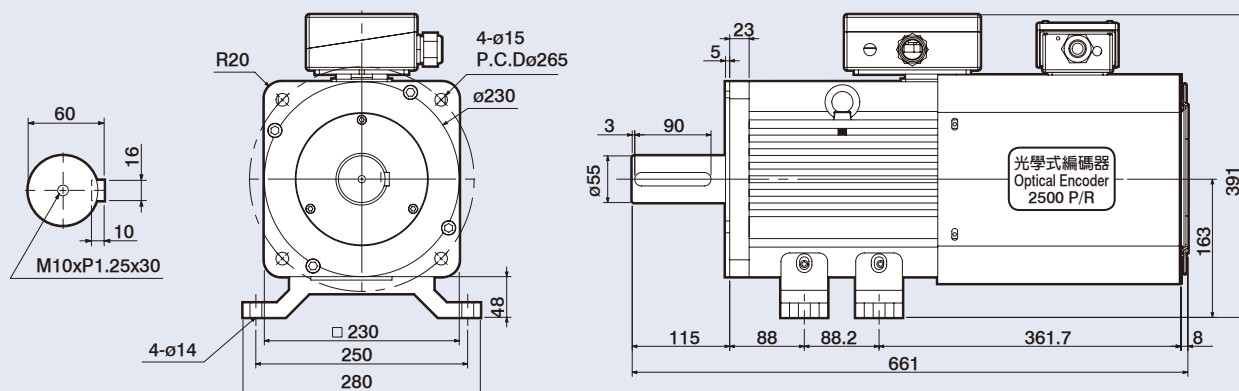
T-M 扭力轉速曲線圖

T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm

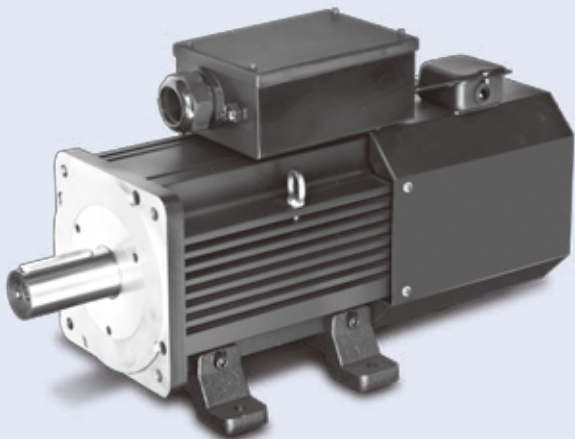


技術資料 Servo Motor Technical Datasheet:

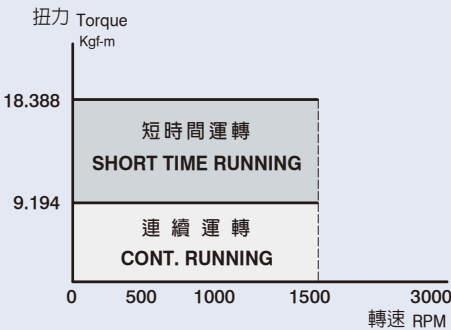
Model		LDSM230-C			
項目		符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	11.2	11.2
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 43	≥ 22
額定轉矩	Rated torque	TR	Kgf·m	7.454	7.454
額定電流	Rated current	IR	A	43.8	21.4
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf·m	14.908	14.908
瞬間最大電流	Instant 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	199.6	199.6
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	789.4	789.4
繞組電阻值	Winding resistance	Ra	Ω	0.183	
繞組電感值	Winding inductive value	La	mH	1.623	
重量 (標準)	Weight (Standard)	W	kg	67	67

LDSM230-D

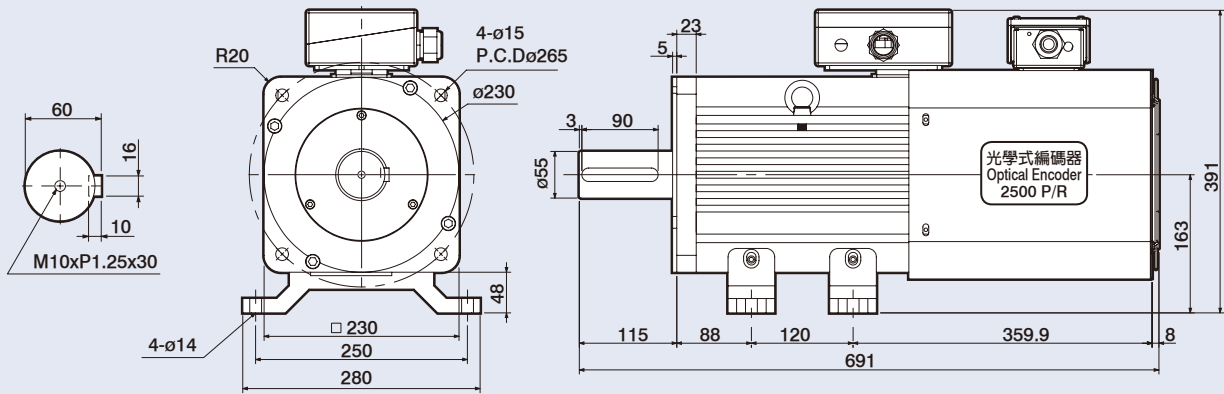
永磁同步伺服馬達 Permanent Magnetic Synchronous Servo Motor



T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions: UNIT:mm

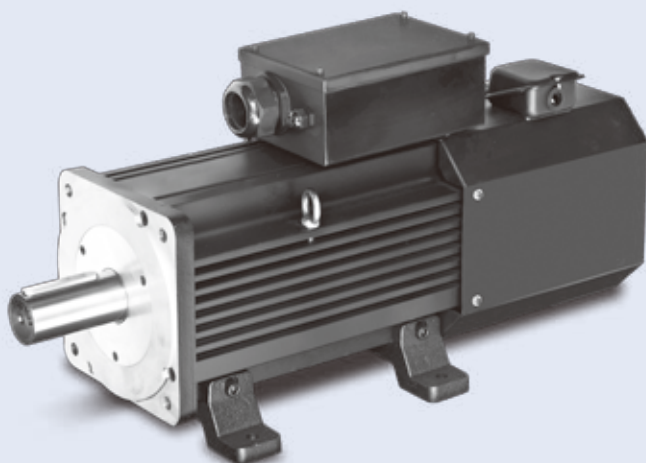


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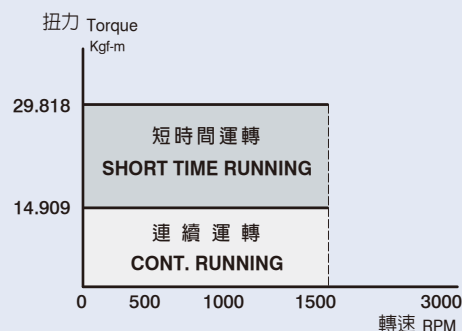
Model		LDSM230-D			
項目		符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	13.8	13.8
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 53	≥ 27
額定轉矩	Rated torque	TR	Kgf·m	9.194	9.194
額定電流	Rated current	IR	A	54.1	26.5
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf·m	18.388	18.388
瞬間最大電流	Instant 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	244.2	244.2
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	976.8	976.8
繞組電阻值	Winding resistance	Ra	Ω		
繞組電感值	Winding inductive value	La	mH		
重量 (標準)	Weight (Standard)	W	kg	75	75

LDSM230-E

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

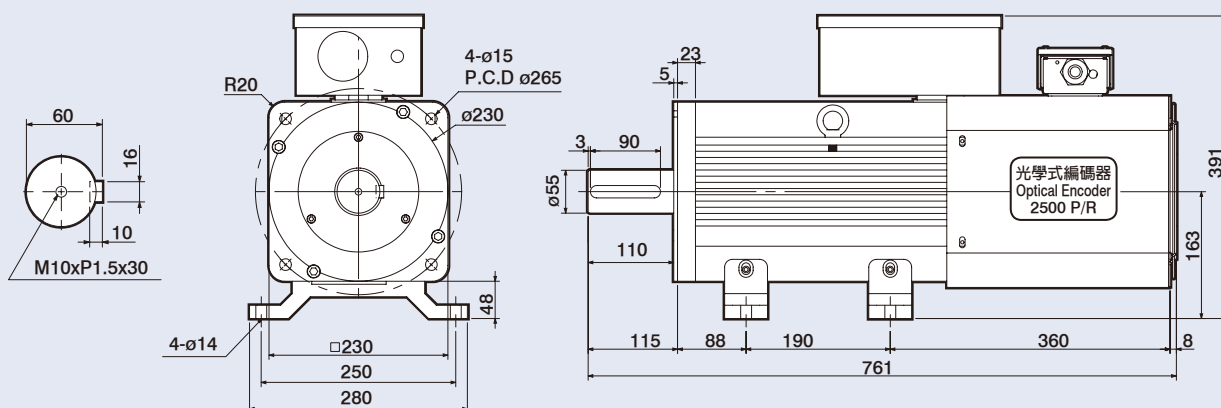


T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm



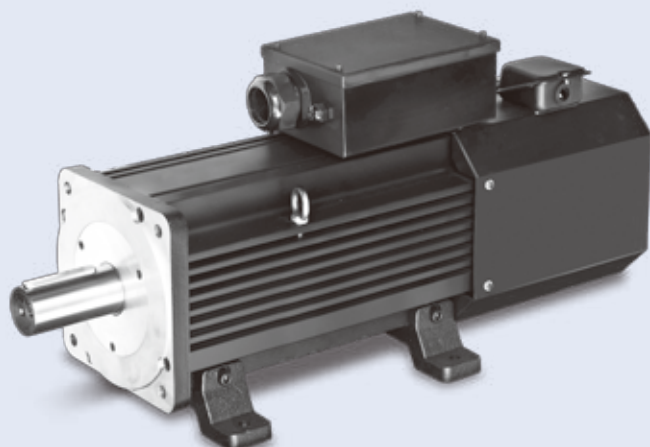
技術資料 Servo Motor Technical Datasheet:

Model		LDSM230-E			
項目		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
繞組電阻值	Winding resistance	Ra	Ω	0.069	0.312
繞組電感值	Winding inductive value	La	mH	0.621	3.034
重量 (標準)	Weight (Standard)	W	kg	90	90

LDSM230-F

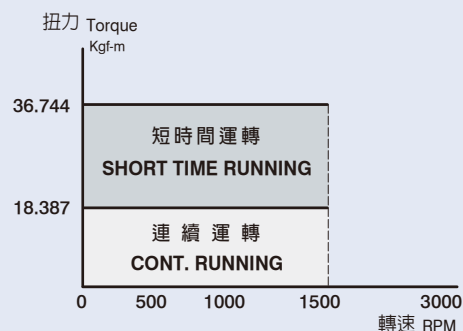
永磁同步伺服馬達

Permanent Magnetic Synchronous Servo Motor



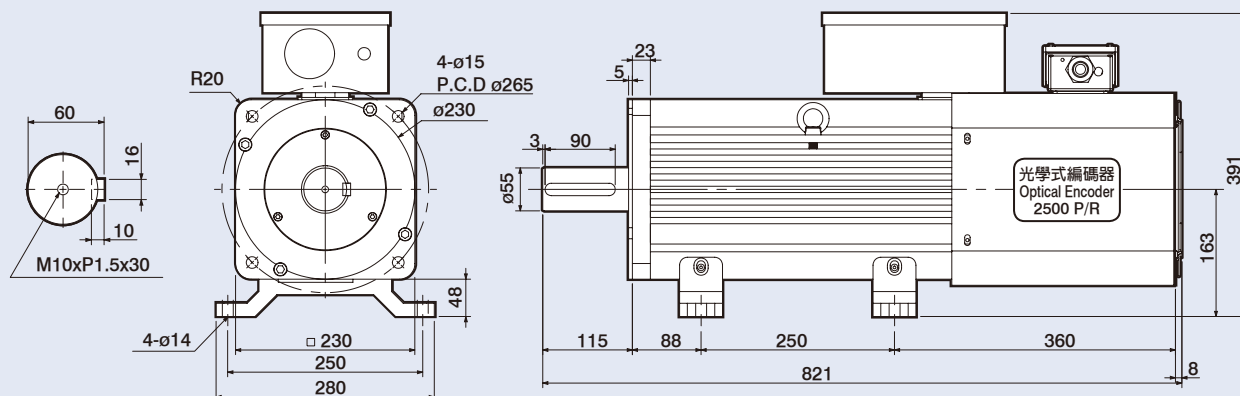
T-M 扭力轉速曲線圖

T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm

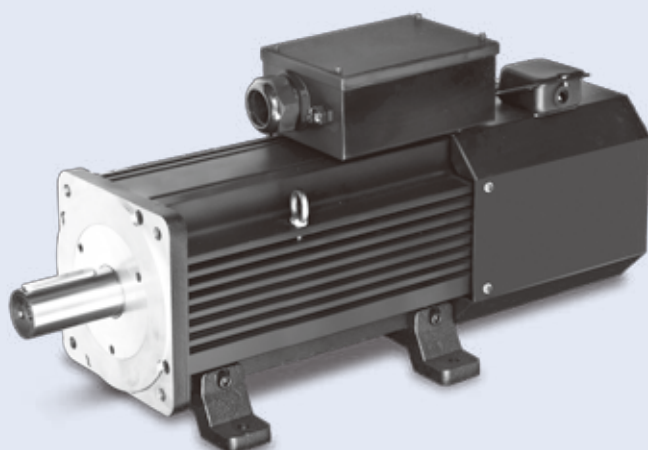


技術資料 Servo Motor Technical Datasheet:

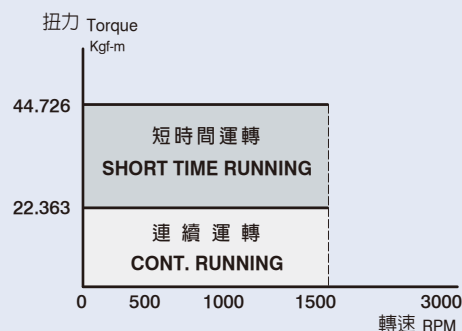
Model		LDSM230-F			
項目		符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	27.7	27.7
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 106	≥ 53
額定轉矩	Rated torque	TR	Kgf·m	18.387	18.387
額定電流	Rated current	IR	A	108	52.9
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf·m	36.744	36.744
瞬間最大電流	Instant 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
繞組電阻值	Winding resistance	Ra	Ω	0.056	
繞組電感值	Winding inductive value	La	mH	0.494	
重量 (標準)	Weight (Standard)	W	kg	104	104

LDSM230-G

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

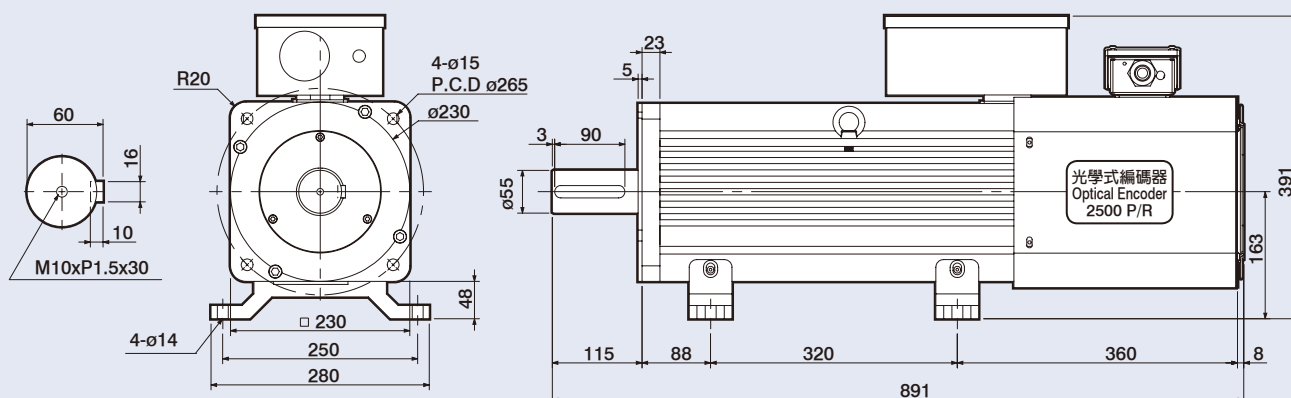


T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm

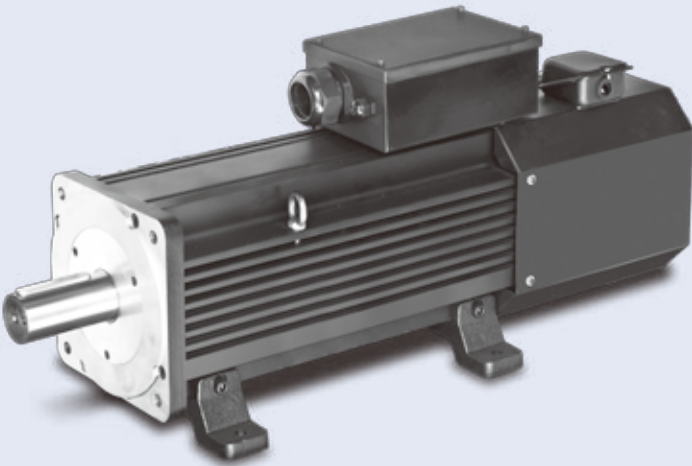


技術資料 Servo Motor Technical Datasheet:

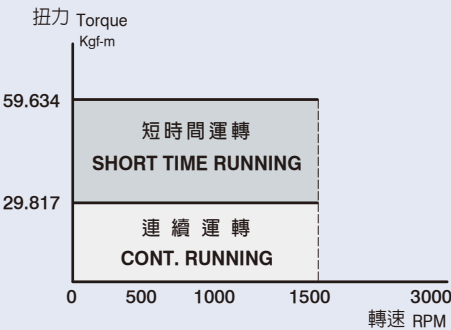
Model		LDSM230-G			
項目		符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	33.7	33.7
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 84	≥ 42
額定轉矩	Rated torque	TR	Kgf-m	22.363	22.363
額定電流	Rated current	IR	A	131	64.4
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	44.726	44.726
瞬間最大電流	Instant 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
繞組電阻值	Winding resistance	Ra	Ω	0.04	0.196
繞組電感值	Winding inductive value	La	mH	0.5	2.68
重量 (標準)	Weight (Standard)	W	kg	120	120

LDSM230-H

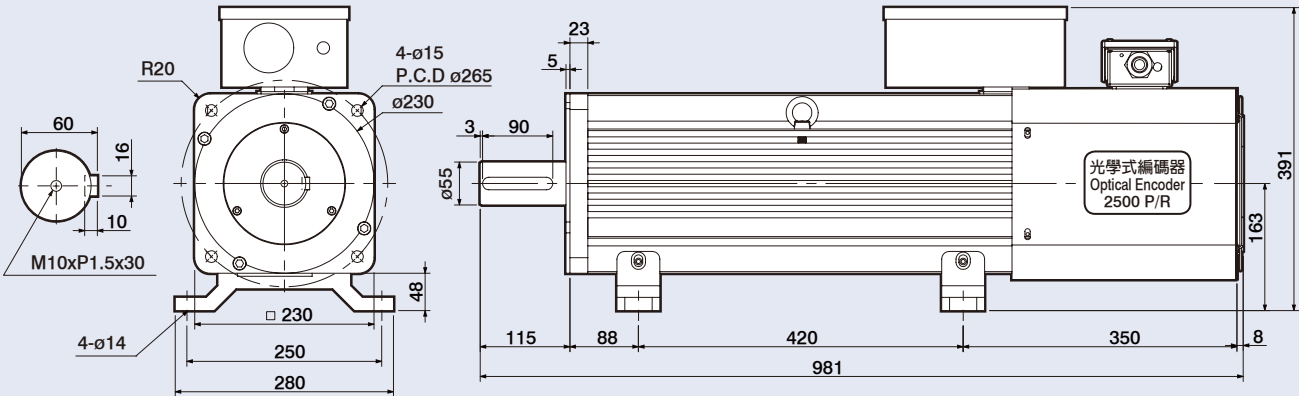
永磁同步伺服馬達 Permanent Magnetic Synchronous Servo Motor



T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions: UNIT:mm

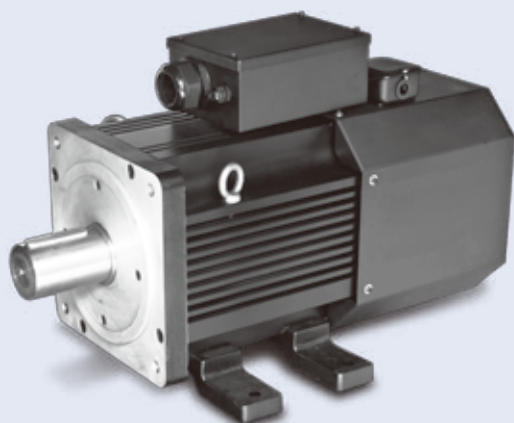


技術資料 Servo Motor Technical Datasheet:

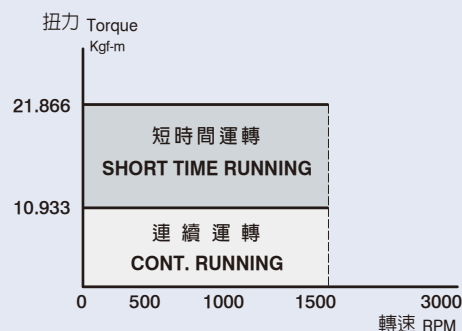
Model		LDSM230-H			
項目		符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	45	45
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 170	≥ 85
額定轉矩	Rated torque	TR	Kgf·m	29.817	29.817
額定電流	Rated current	IR	A	175	85.8
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf·m	59.634	59.634
瞬間最大電流	Instant max. 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
繞組電阻值	Winding resistance	Ra	Ω		0.135
繞組電感值	Winding inductive value	La	mH		1.952
重量 (標準)	Weight (Standard)	W	kg	140	140

LDSM300-A

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

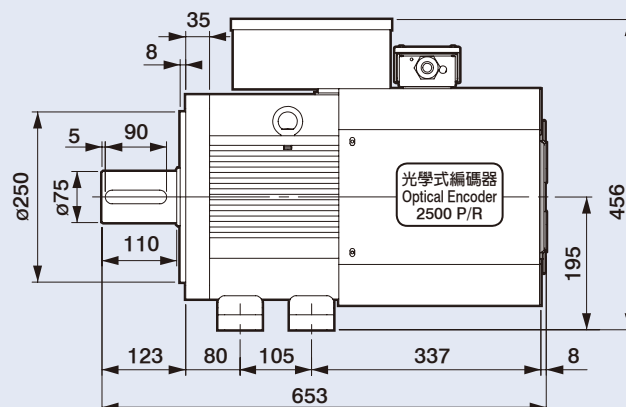
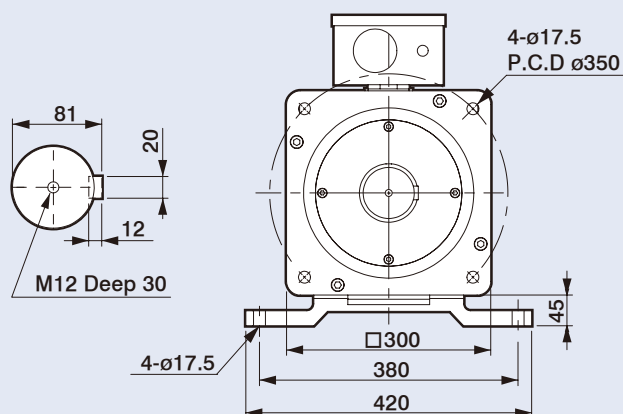


T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm

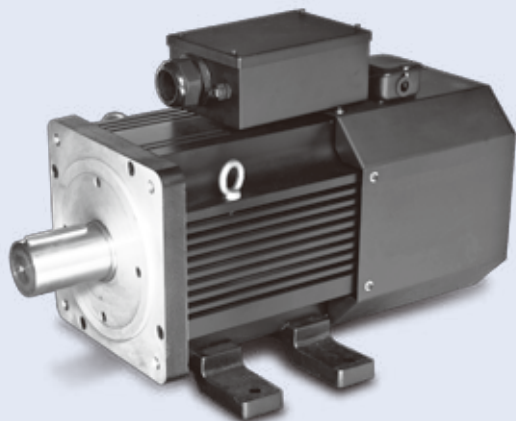


技術資料 Servo Motor Technical Datasheet:

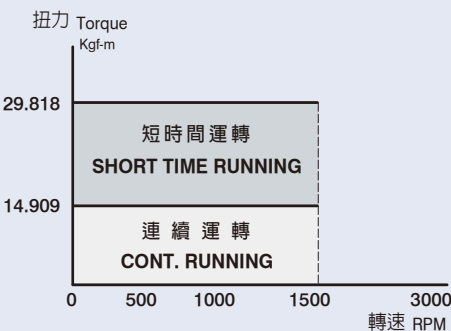
Model		LDSM300-A			
項目		符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	16.5	16.5
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 41	≥ 21
額定轉矩	Rated torque	TR	Kgf·m	10.933	10.933
額定電流	Rated current	IR	A	64.3	31.5
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf·m	21.866	21.866
瞬間最大電流	Instant 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	460.64	460.64
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	1842.5	1842.5
繞組電阻值	Winding resistance	Ra	Ω	-	-
繞組電感值	Winding inductive value	La	mH	-	-
重量 (標準)	Weight (Standard)	W	kg	96	96

LDSM300-B

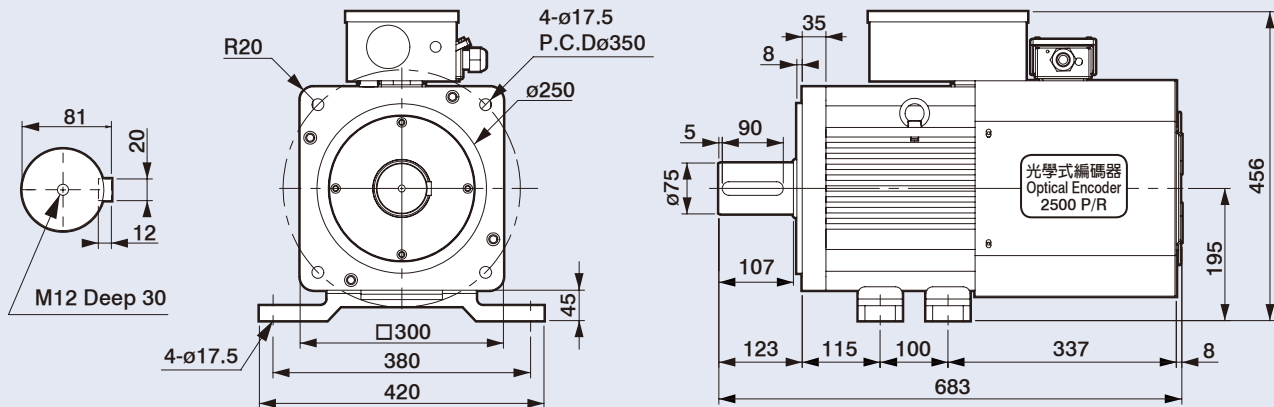
永磁同步伺服馬達 Permanent Magnetic Synchronous Servo Motor



T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions: UNIT:mm

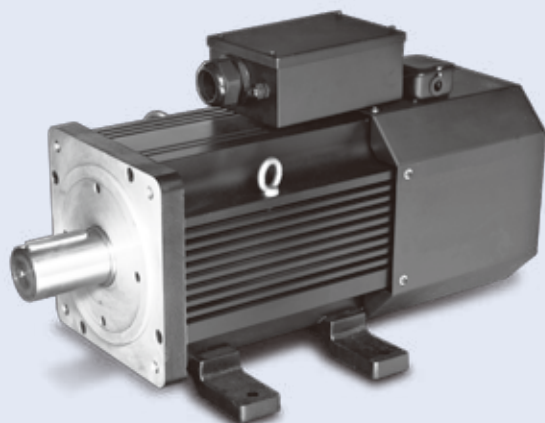


技術資料 Servo Motor Technical Datasheet:

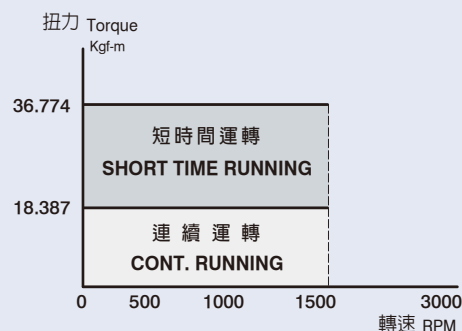
Model		LDSM300-B			
項目		符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	22.5	22.5
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 86	≥ 43
額定轉矩	Rated torque	TR	Kgf·m	14.909	14.909
額定電流	Rated current	IR	A	87.7	42.9
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf·m	29.818	29.818
瞬間最大電流	Instant 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	614.99	614.99
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	2459.96	2459.96
繞組電阻值	Winding resistance	Ra	Ω	-	-
繞組電感值	Winding inductive value	La	mH	-	-
重量 (標準)	Weight (Standard)	W	kg	108	108

LDSM300-C

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

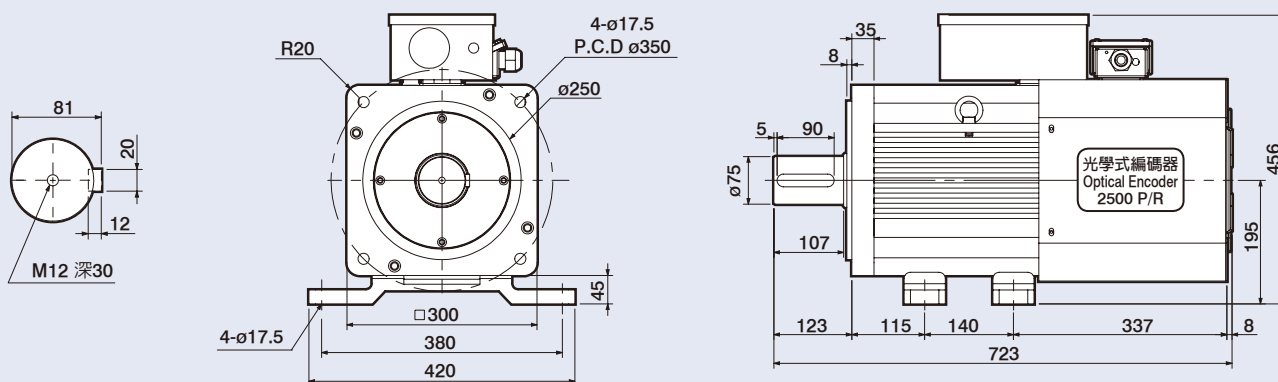


T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm



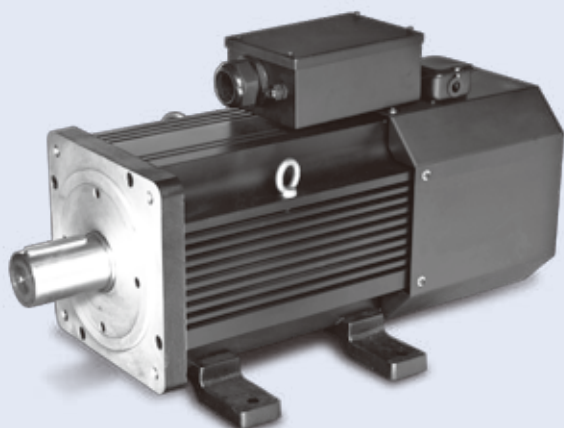
技術資料 Servo Motor Technical Datasheet:

Model		LDSM300-C			
項目		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	36.774	36.774
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	820.8	820.8
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	3283.2	3283.2
繞組電阻值	Winding resistance	Ra	Ω		
繞組電感值	Winding inductive value	La	mH		
重量 (標準)	Weight (Standard)	W	kg	125	125

LDSM300-D

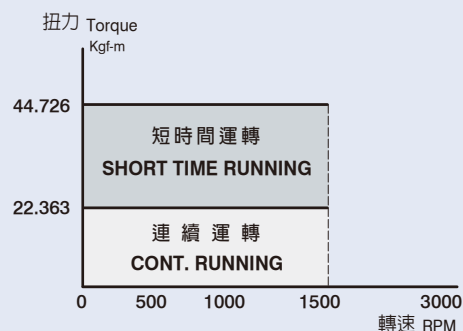
永磁同步伺服馬達

Permanent Magnetic Synchronous Servo Motor



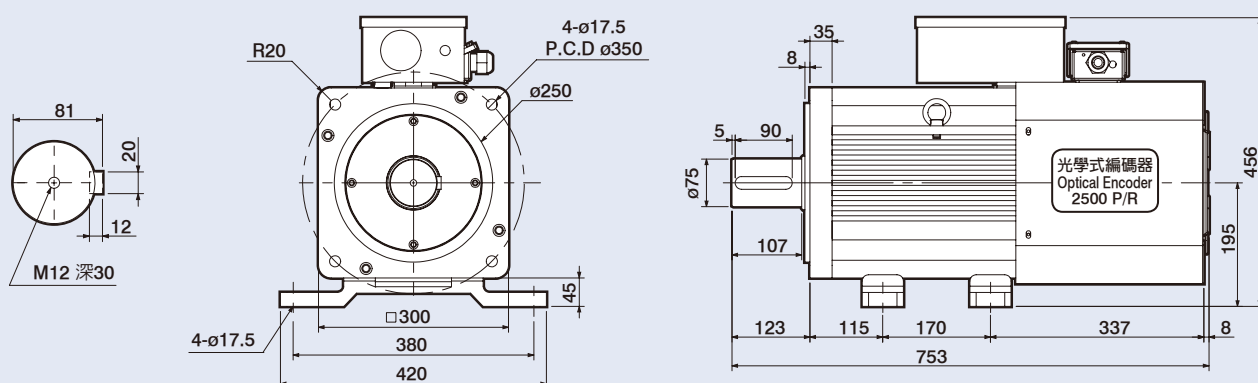
T-M 扭力轉速曲線圖

T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm



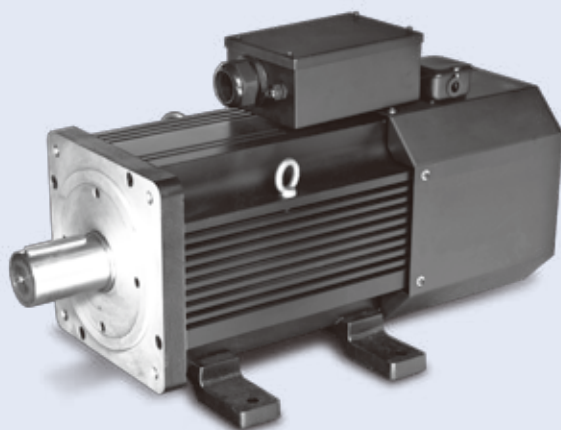
技術資料 Servo Motor Technical Datasheet:

Model		LDSM300-D			
項目		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	≥ 129	≥ 65
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	975.15	975.15
轉子飛輪效應	Rotor flywheel effect	GD ²	kg/cm ²	3900.6	3900.6
繞組電阻值	Winding resistance	Ra	Ω		
繞組電感值	Winding inductive value	La	mH		
重量 (標準)	Weight (Standard)	W	kg	137	137

LDSM300-E

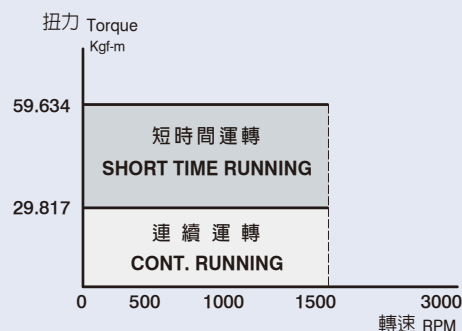
永磁同步伺服馬達

Permanent Magnetic Synchronous Servo Motor



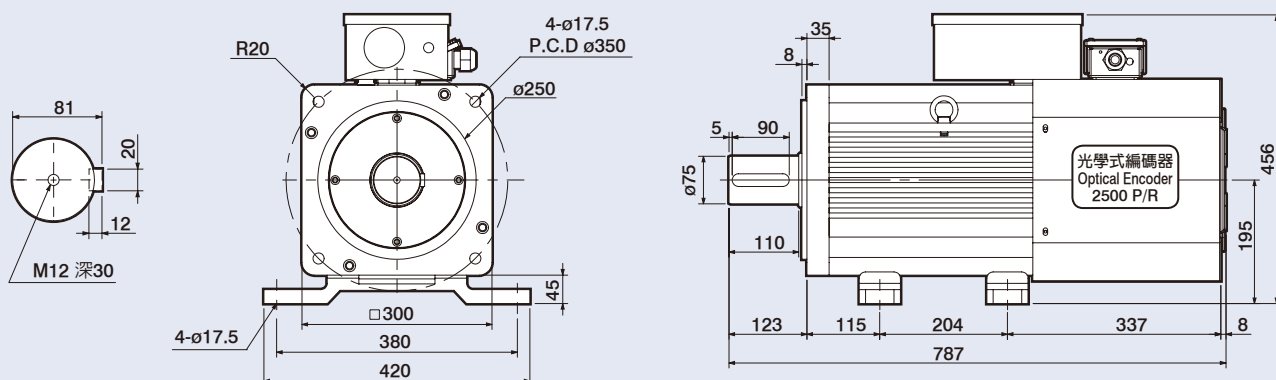
T-M 扭力轉速曲線圖

T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm



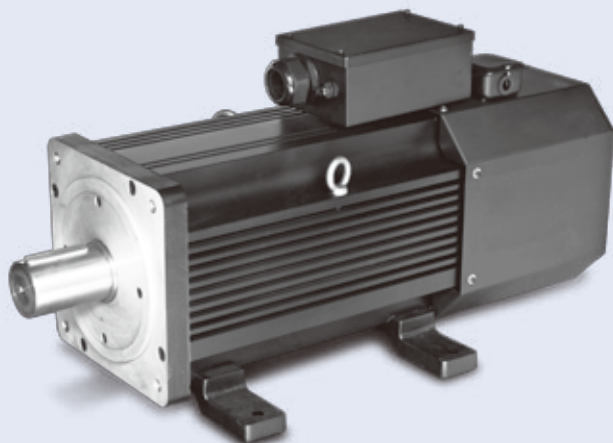
技術資料 Servo Motor Technical Datasheet:

Model		LDSM300-E			
項 目		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
繞組電阻值	Winding resistance	Ra	Ω		
繞組電感值	Winding inductive value	La	mH		
重 量 (標準)	Weight (Standard)	W	kg	155	155

LDSM300-F

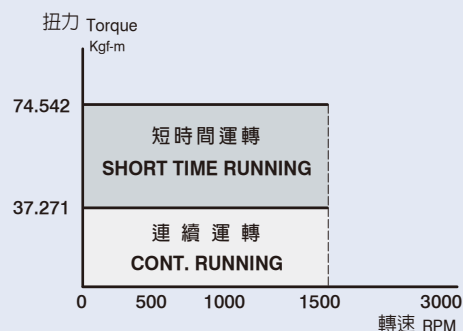
永磁同步伺服馬達

Permanent Magnetic Synchronous Servo Motor



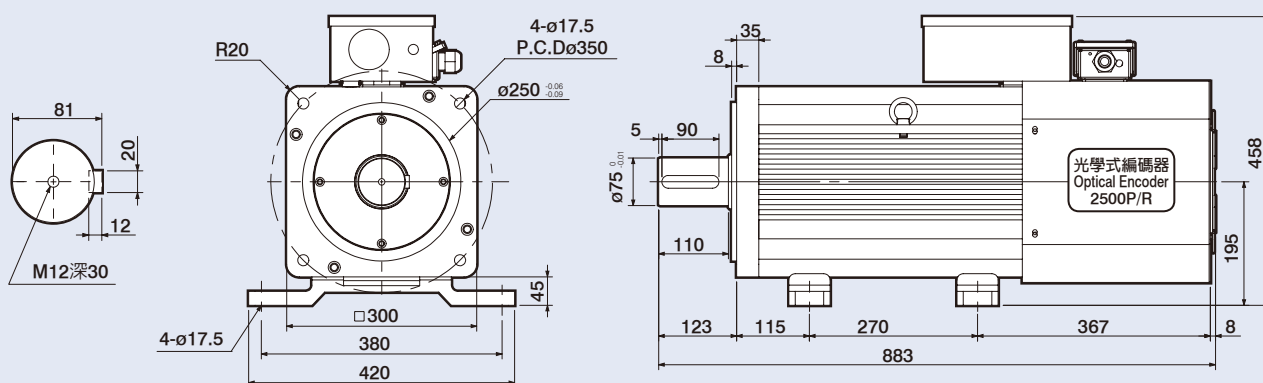
T-M 扭力轉速曲線圖

T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm

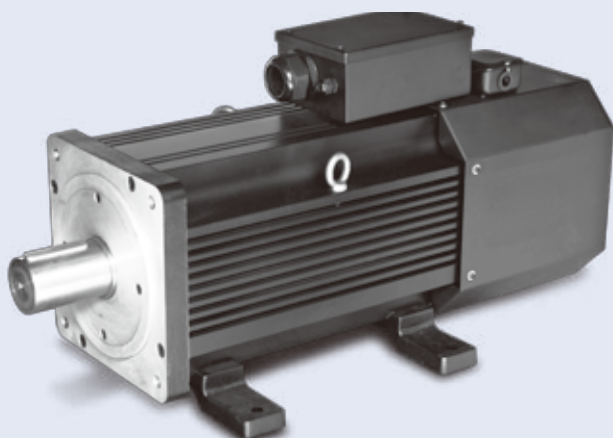


技術資料 Servo Motor Technical Datasheet:

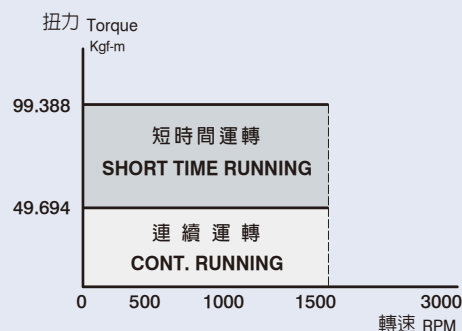
Model		LDSM300-F			
項目		符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	56.2	56.2
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 215	≥ 110
額定轉矩	Rated torque	TR	Kgf·m	37.271	37.271
額定電流	Rated current	IR	A	219	107
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf·m	74.542	74.542
瞬間最大電流	Instant 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
繞組電阻值	Winding resistance	Ra	Ω		
繞組電感值	Winding inductive value	La	mH		
重量 (標準)	Weight (Standard)	W	kg	190	190

LDSM300-G

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

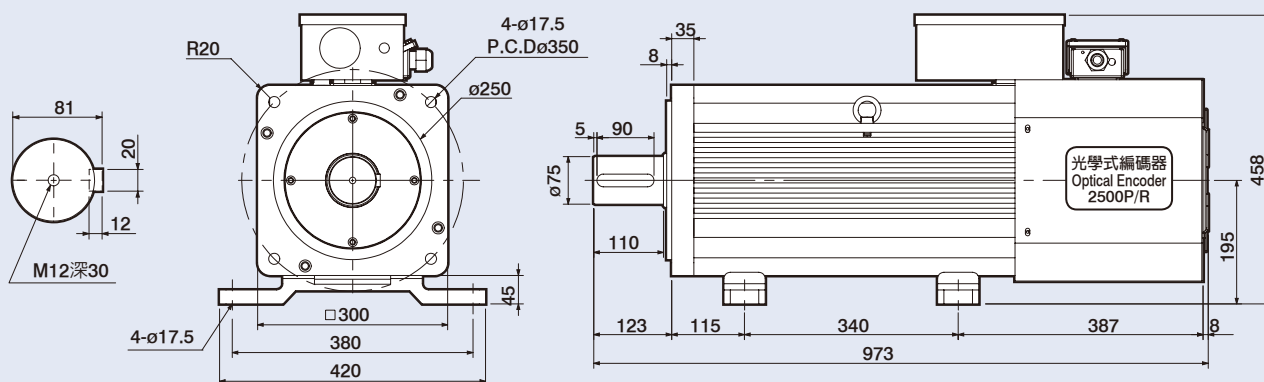


T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm

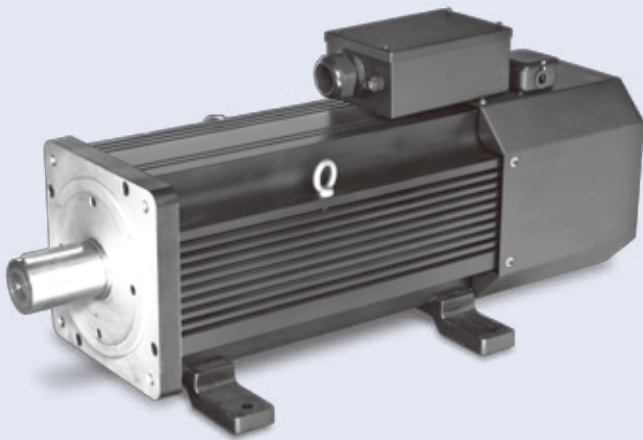


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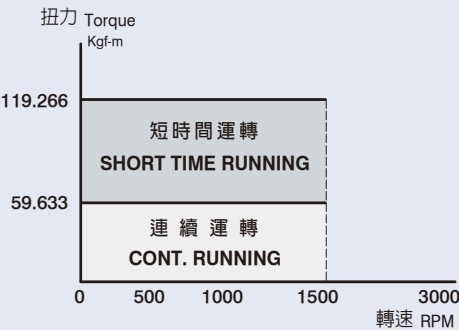
Model		LDSM300-G			
項目		符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	75	75
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 286	≥ 143
額定轉矩	Rated torque	TR	Kgf·m	49.694	49.694
額定電流	Rated current	IR	A	292	143
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf·m	99.388	99.388
瞬間最大電流	Instant max. 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
繞組電阻值	Winding resistance	Ra	Ω		0.052
繞組電感值	Winding inductive value	La	mH		0.793
重量 (標準)	Weight (Standard)	W	kg	227	227

LDSM300-H

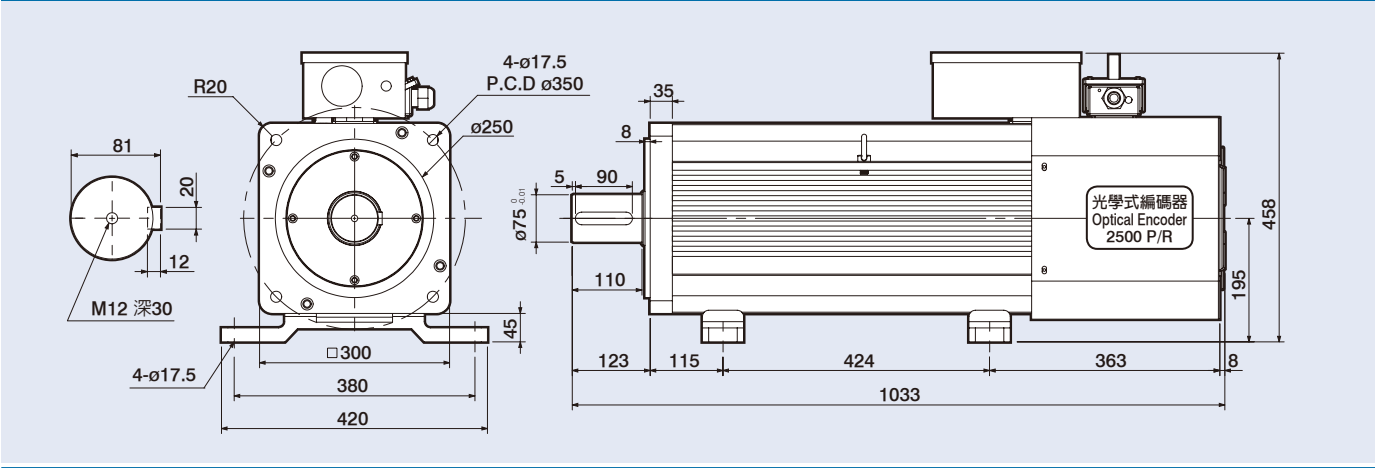
永磁同步伺服馬達
Permanent Magnetic Synchronous Servo Motor



T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions: UNIT:mm

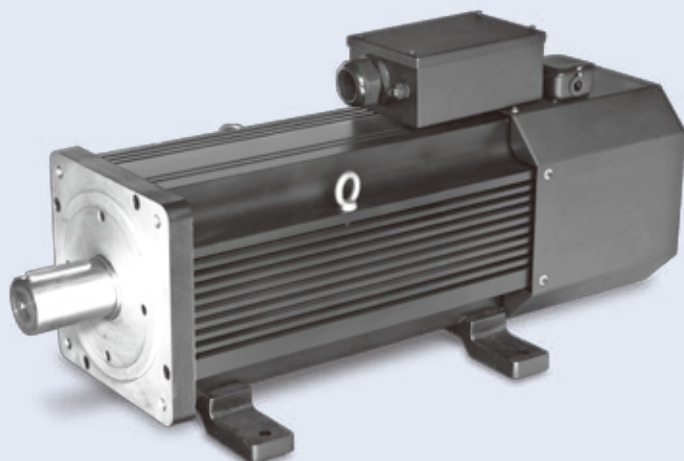


技術資料 Servo Motor Technical Datasheet:

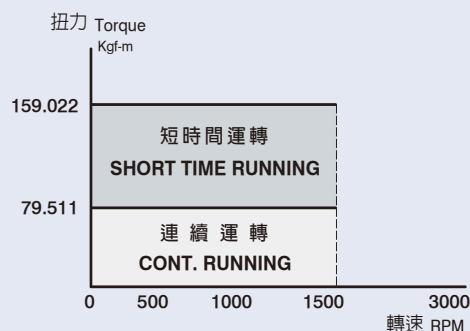
Model		LDSM300-H			
項目		符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	90	90
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 343	≥ 172
額定轉矩	Rated torque	TR	Kgf·m	59.633	59.633
額定電流	Rated current	IR	A	351	172
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf·m	119.266	119.266
瞬間最大電流	Instant 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
繞組電阻值	Winding resistance	Ra	Ω		
繞組電感值	Winding inductive value	La	mH		
重量 (標準)	Weight (Standard)	W	kg	255	255

LDSM300-I

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

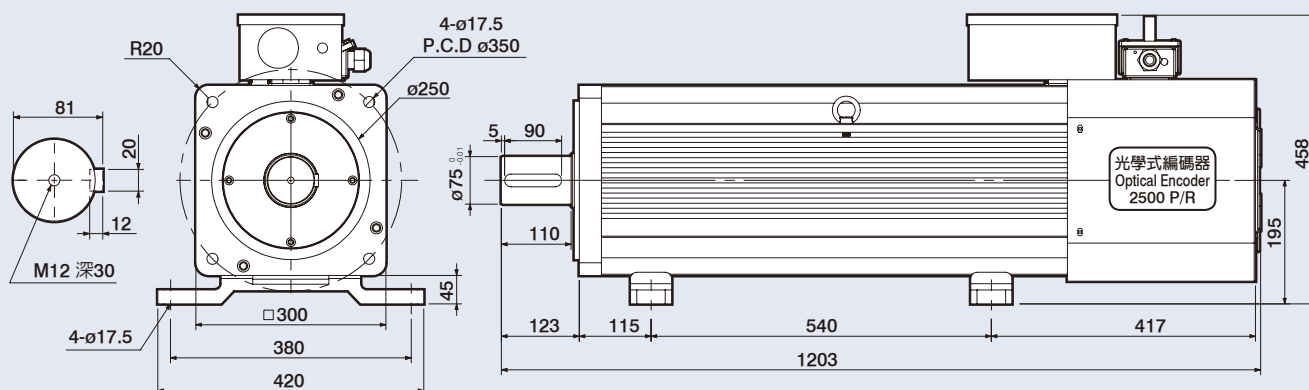


T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm



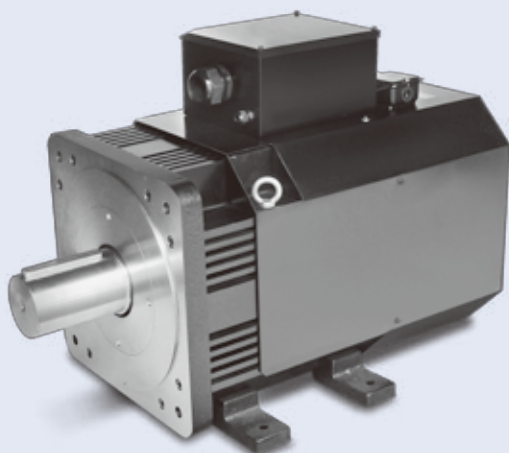
技術資料 Servo Motor Technical Datasheet:

Model		LDSM300-I			
項 目		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
繞組電阻值	Winding resistance	Ra	Ω		
繞組電感值	Winding inductive value	La	mH		
重 量 (標準)	Weight (Standard)	W	kg	316	316

LDSM450-A

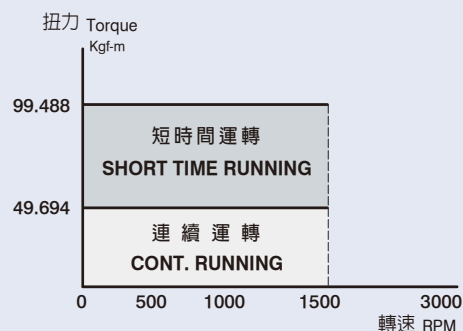
永磁同步伺服馬達

Permanent Magnetic Synchronous Servo Motor



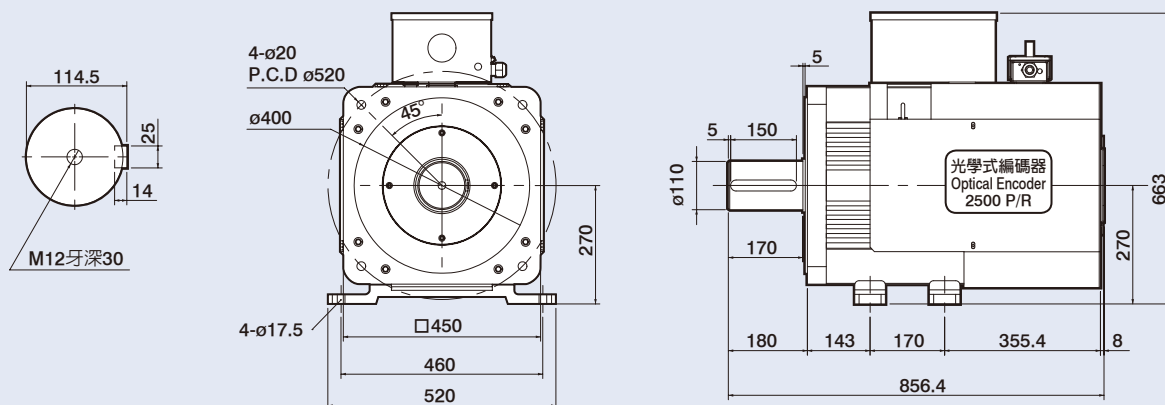
T-M 扭力轉速曲線圖

T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm

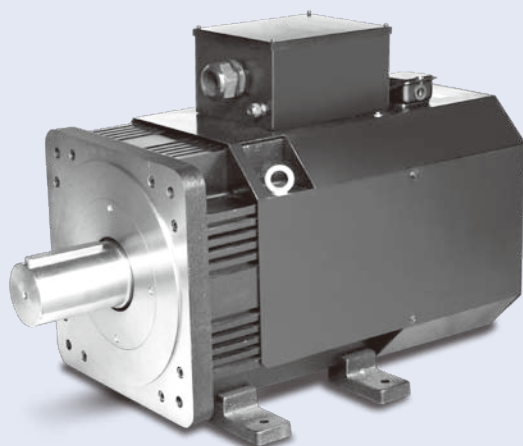


技術資料 Servo Motor Technical Datasheet:

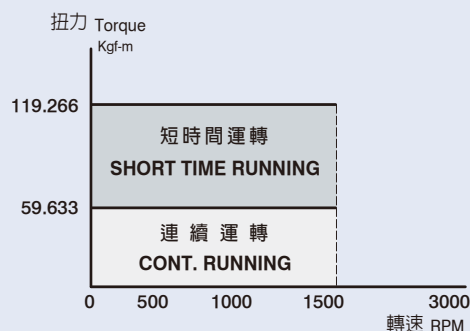
Model		LDSM450-A			
項目		符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	75	75
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 300	≥ 150
額定轉矩	Rated torque	TR	Kgf-m	49.694	49.694
額定電流	Rated current	IR	A	292	143
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	99.388	99.388
瞬間最大電流	Instant max. 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
繞組電阻值	Winding resistance	Ra	Ω		
繞組電感值	Winding inductive value	La	mH		
重量 (標準)	Weight (Standard)	W	kg		

LDSM450-B

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

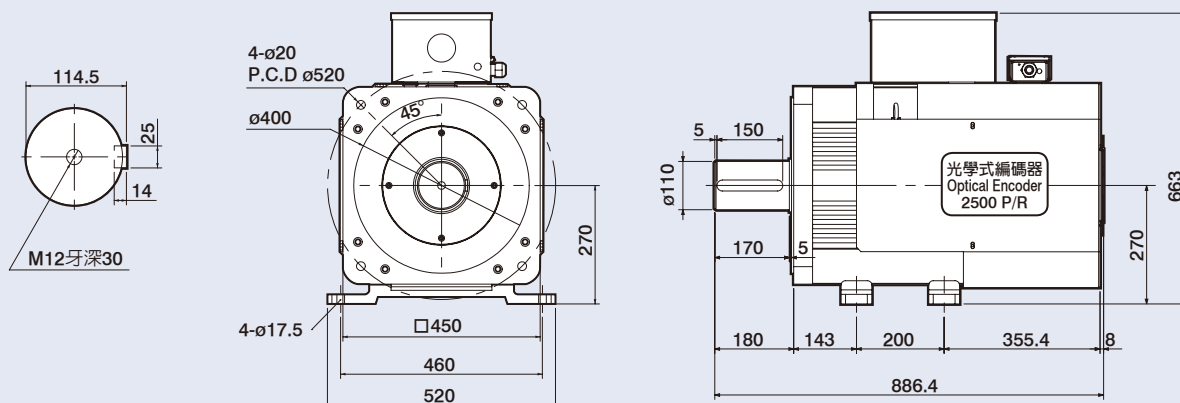


T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm



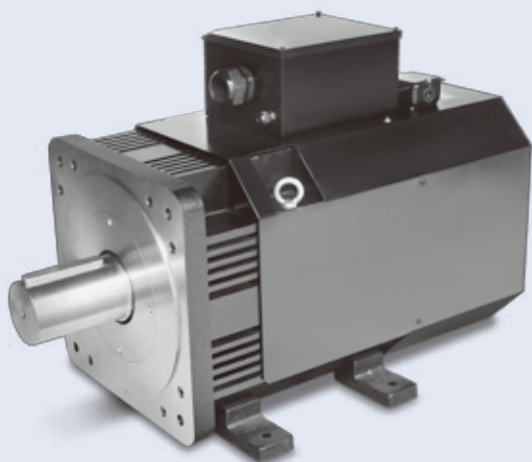
技術資料 Servo Motor Technical Datasheet:

Model		LDSM450-B			
項目		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
繞組電阻值	Winding resistance	Ra	Ω		
繞組電感值	Winding inductive value	La	mH		
重量 (標準)	Weight (Standard)	W	kg		

LDSM450-C

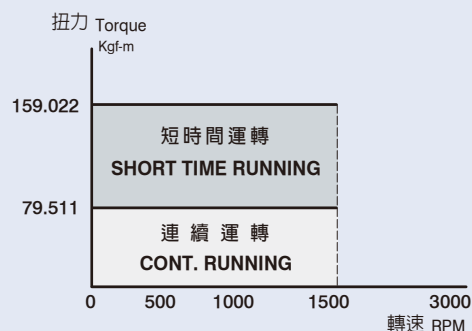
永磁同步伺服馬達

Permanent Magnetic Synchronous Servo Motor



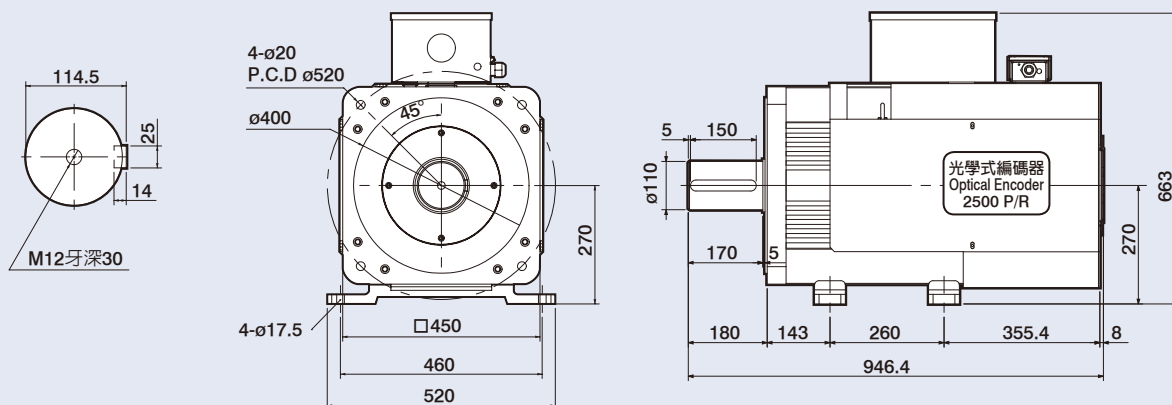
T-M 扭力轉速曲線圖

T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm

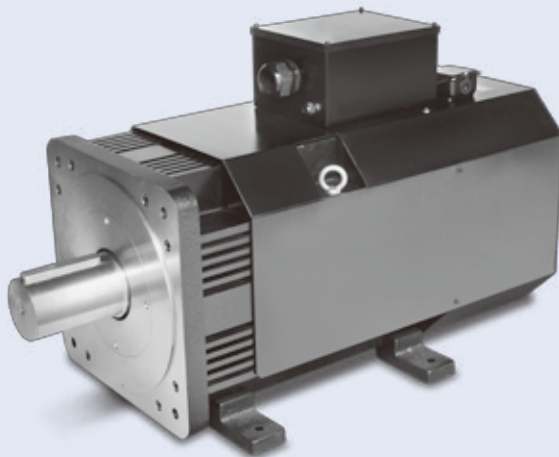


技術資料 Servo Motor Technical Datasheet:

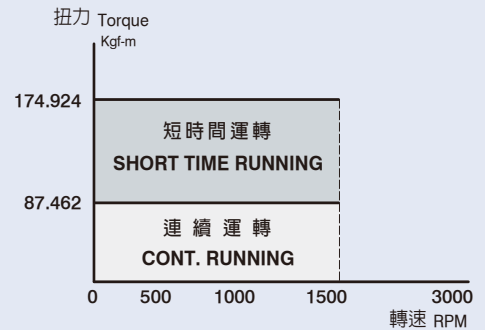
Model		LDSM450-C			
項目		符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	120	120
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 470	≥ 230
額定轉矩	Rated torque	TR	Kgf-m	79.511	79.511
額定電流	Rated current	IR	A	467	229
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	159.022	159.022
瞬間最大電流	Instant 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
繞組電阻值	Winding resistance	Ra	Ω		
繞組電感值	Winding inductive value	La	mH		
重量 (標準)	Weight (Standard)	W	kg		

LDSM450-D

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

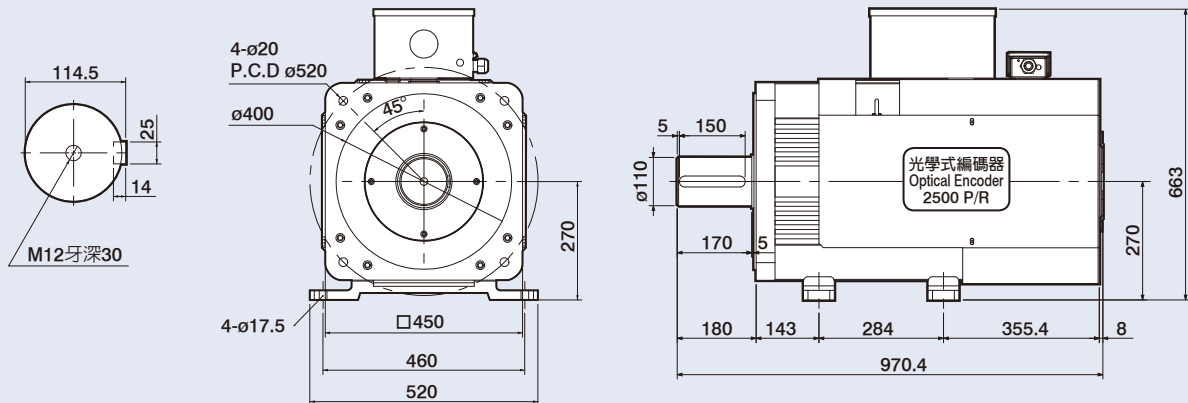


T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm



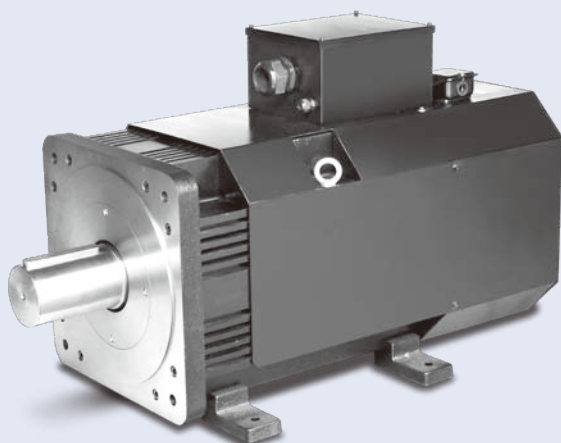
技術資料 Servo Motor Technical Datasheet:

Model		LDSM450-D			
項目		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
繞組電阻值	Winding resistance	Ra	Ω		
繞組電感值	Winding inductive value	La	mH		
重量 (標準)	Weight (Standard)	W	kg		

LDSM450-E

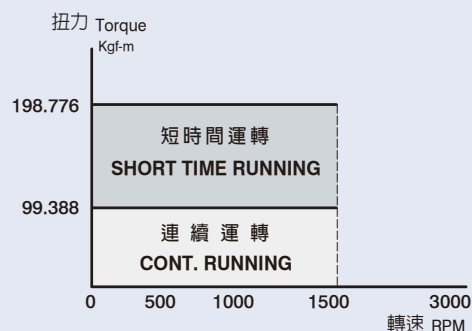
永磁同步伺服馬達

Permanent Magnetic Synchronous Servo Motor



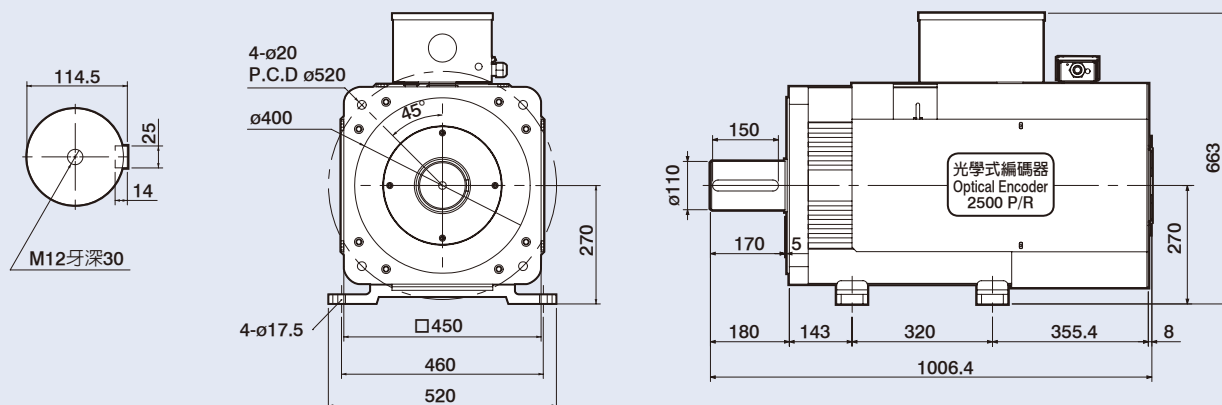
T-M 扭力轉速曲線圖

T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm

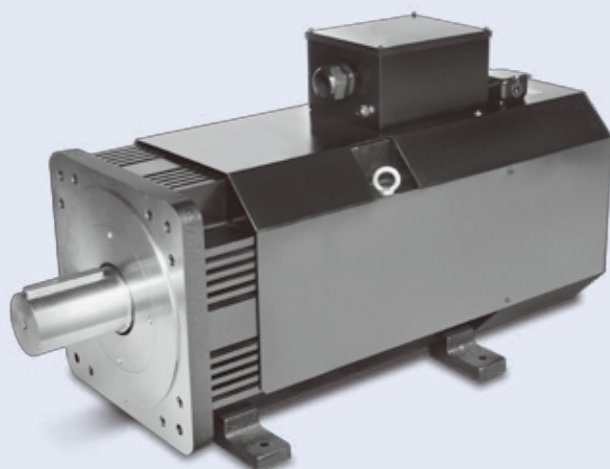


技術資料 Servo Motor Technical Datasheet:

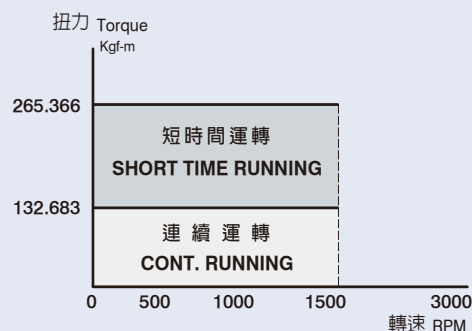
Model		LDSM450-E			
項目		符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	150	150
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 600	≥ 290
額定轉矩	Rated torque	TR	Kgf-m	99.388	99.388
額定電流	Rated current	IR	A	584	286
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	198.776	198.776
瞬間最大電流	Instant 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
繞組電阻值	Winding resistance	Ra	Ω		
繞組電感值	Winding inductive value	La	mH		
重量 (標準)	Weight (Standard)	W	kg		

LDSM450-F

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

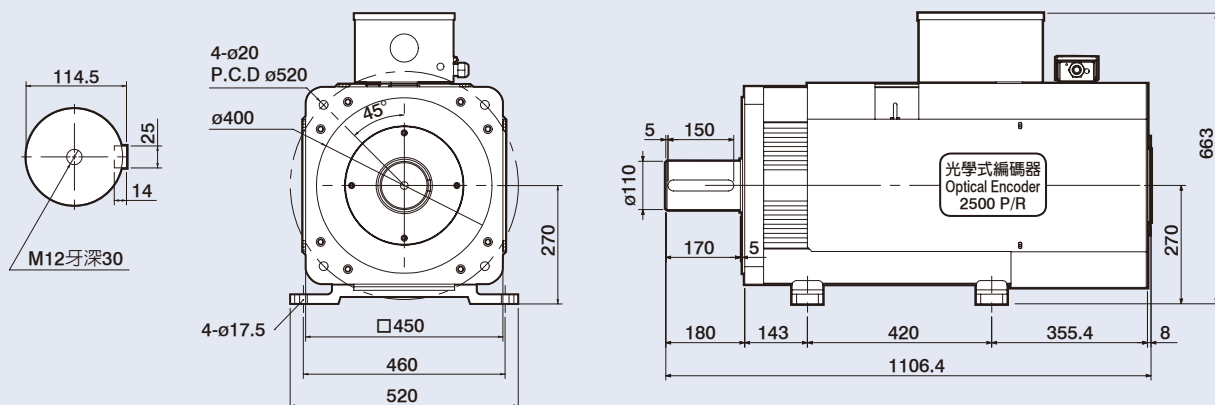


T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm

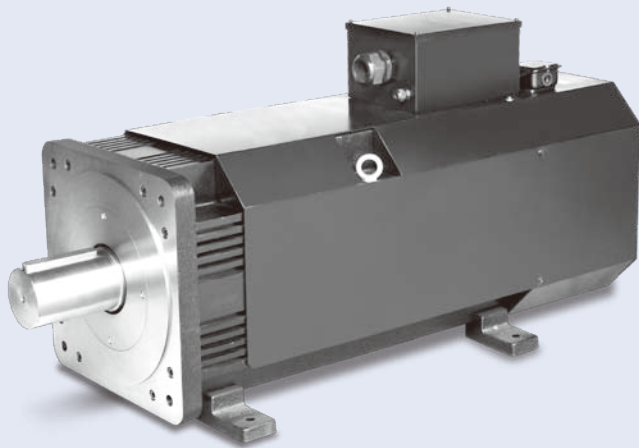


技術資料 Servo Motor Technical Datasheet:

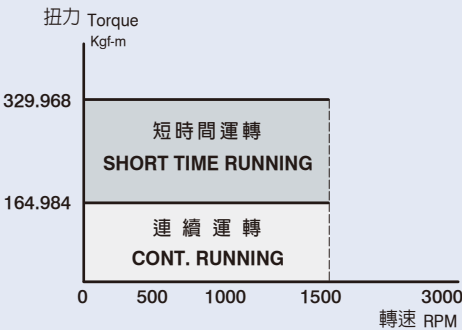
Model		LDSM450-F			
項目		符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	200	200
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 800	≥ 390
額定轉矩	Rated torque	TR	Kgf-m	132.683	132.683
額定電流	Rated current	IR	A	780	382
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	265.366	265.366
瞬間最大電流	Instant 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
繞組電阻值	Winding resistance	Ra	Ω		
繞組電感值	Winding inductive value	La	mH		
重量 (標準)	Weight (Standard)	W	kg		

LDSM450-G

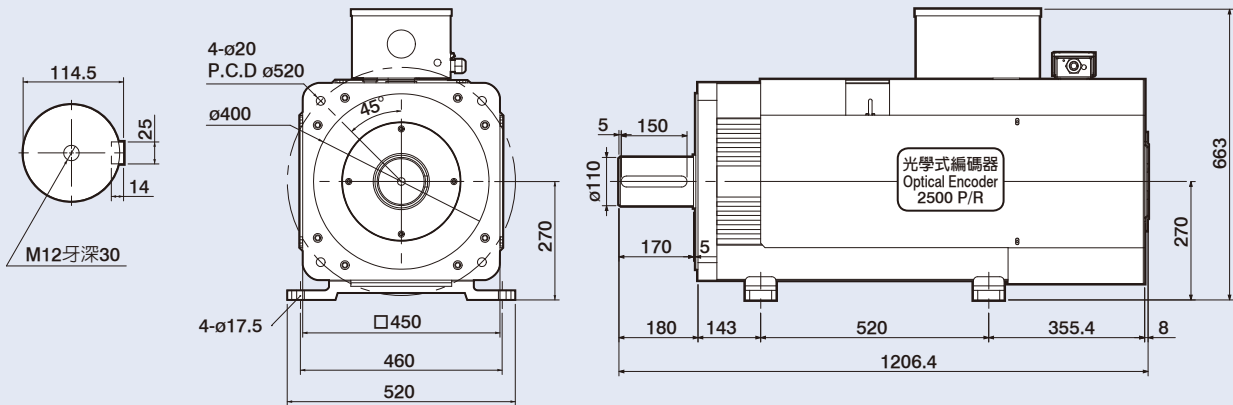
永磁同步伺服馬達
Permanent Magnetic Synchronous Servo Motor



T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions: UNIT:mm

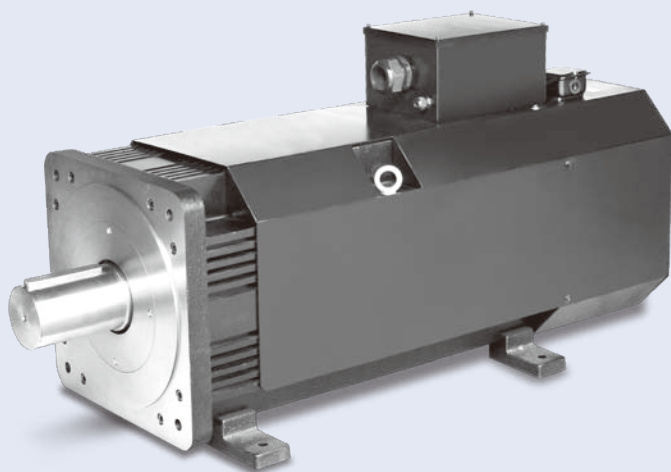


技術資料 Servo Motor Technical Datasheet:

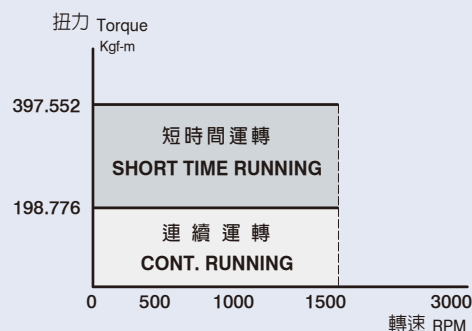
Model		LDSM450-G			
項目		符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	250	250
適用驅動器 (額定)	Applicable driver	Idry	A	≥ 1000	≥ 480
額定轉矩	Rated torque	TR	Kgf·m	164.984	164.984
額定電流	Rated current	IR	A	970	475
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf·m	329.968	329.968
瞬間最大電流	Instant 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
繞組電阻值	Winding resistance	Ra	Ω		
繞組電感值	Winding inductive value	La	mH		
重量 (標準)	Weight (Standard)	W	kg		

LDSM450-H

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

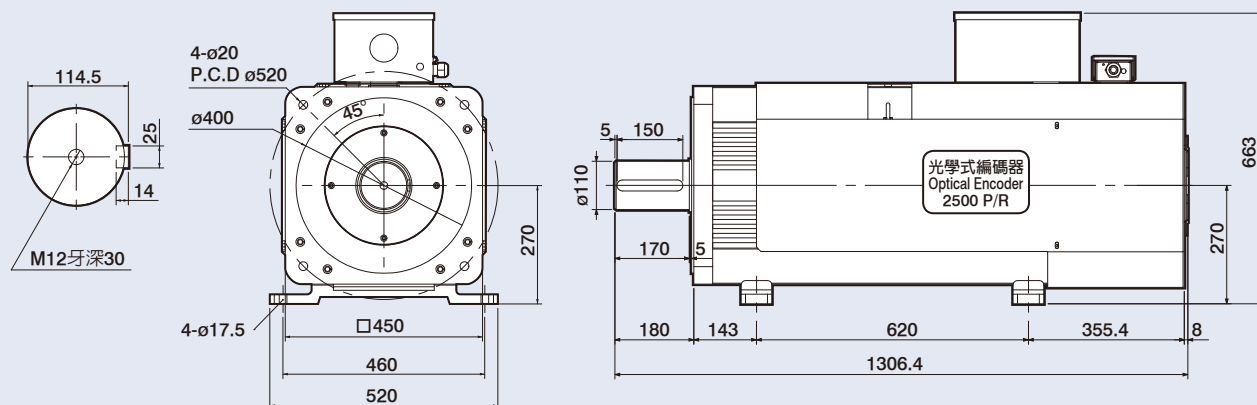


T-M 扭力轉速曲線圖
T-M Torque/Speed Diagram



外觀尺寸圖 Dimensions:

UNIT:mm

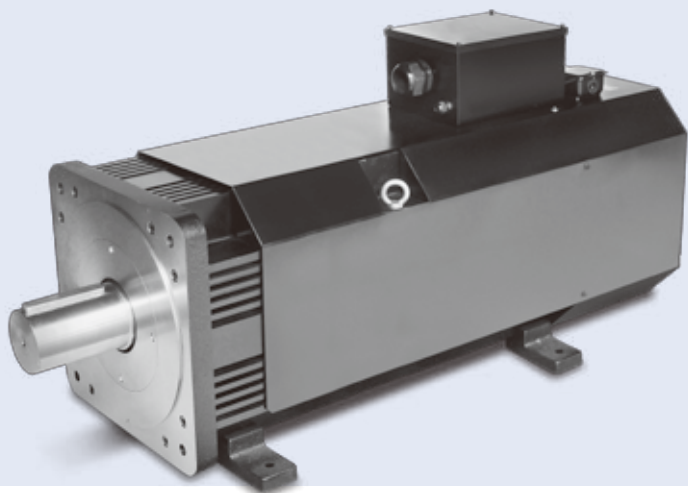


技術資料 Servo Motor Technical Datasheet:

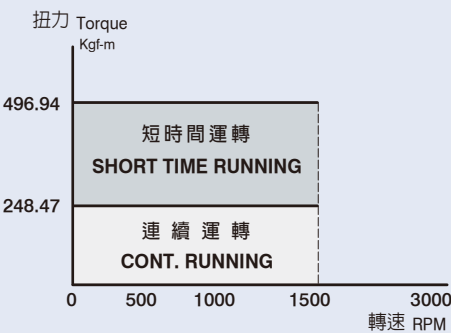
Model		LDSM450-H			
項目		符號 Code	單位 Unit	200V	400V
額定輸出	Rated output	PR	kW	300	300
適用驅動器(額定)	Applicable driver	Idry	A	≥ 1200	≥ 600
額定轉矩	Rated torque	TR	Kgf-m	198.776	198.776
額定電流	Rated current	IR	A	1169	572
額定轉速	Rated speed	NR	rpm	1500	1500
瞬間最大轉矩	Instant max. torque	TP	Kgf-m	397.552	397.552
瞬間最大電流	Instant 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
繞組電阻值	Winding resistance	Ra	Ω		
繞組電感值	Winding inductive value	La	mH		
重量(標準)	Weight (Standard)	W	kg		

LDSM450-I

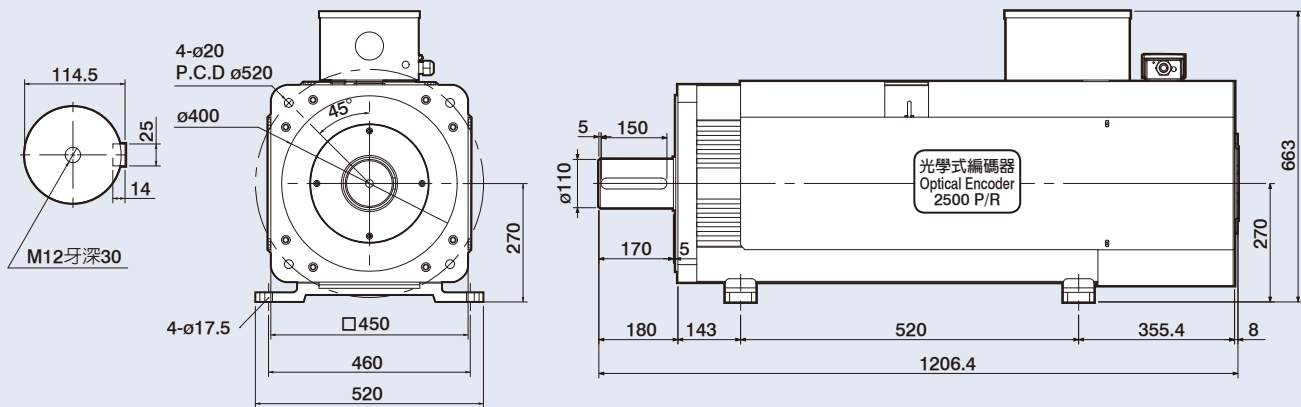
永磁同步伺服馬達 Permanent Magnetic Synchronous Servo Motor



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:

Model		LDSM450-I			
項目		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
繞組電阻值	Winding resistance	Ra	Ω		
繞組電感值	Winding inductive value	La	mH		
重量 (標準)	Weight (Standard)	W	kg		

IRIS-BL SERIES

無刷直流馬達驅動器 Brushless DC Motor Driver

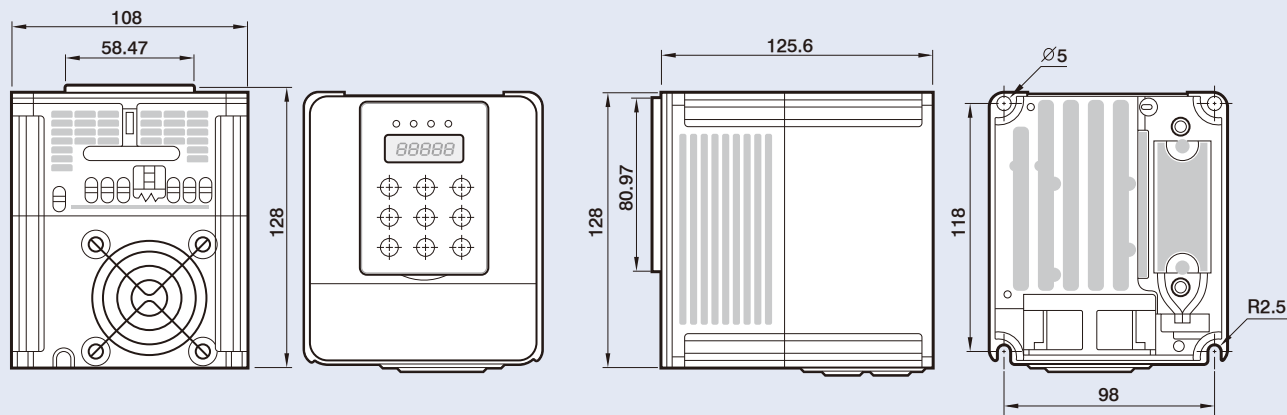


無刷直流電機驅動器是一種創新的產品採用32位DSP數字控制，可以控制無刷直流電動機，具有強大的功能，廣泛的動態響應，速度控制範圍，高速準確性，非常準確尺寸。

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:

UNIT:mm



驅動器規格 Specifications of Driver:

Model		IRIS-BL-3.5	IRIS-BL-5	IRIS-BL-7
項目				
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IO輸入	Simulated I/O input	1 NO. 12 位元 12-digit		
模擬IO輸出	Simulated I/O output	1 NO. 8 位元 8-digit		
數位IO輸入	Digital I/O input	6 NO. Sink, Programmable		
數位IO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		



伺服驅動器規格 Specifications of Servo Driver:

Model				MSD-015 / 020 / 030 / 050 / 075	
項目					
驅動器型式		Driver type		AC180V~240V 單相 / 三相 Sing. ph./3ph. 50/60Hz	
入力電源		Input power		增量型 Incremental type (2500ppr)	
編碼器型式		Encoder type		使用溫度 Work temp.: 0~50 °C、保存溫度 Storing temp.: -20~80 °C	
周圍環境	溫度	Ambi. Cond.	Temperature	使用/保存溼度 85% RH 以下	
	溼度		Humidity	0.5G 以下	
	振動		Vibration	位置 / 速度 / 扭力	
控制模式		Control Mode		正/逆轉 Pulse、符號+ Pulse、A/B 相 Pulse	
位置控制	指令入力型態	Posi. Cont.	Commanded input type	500 kpps	
	最大入力		Max. Input	$1/127 \leq A/B \leq 127$ (A&B:1~10000)	
	電子齒輪比		Electronic gear ratio	時間常數由 0~10000ms	
	位置平滑濾波		Position smooth filtering wave	0~32767 Pulses	
	位置定位		Positioning	0~±10V (由馬達出力軸看CCW方向為+V入力)	
速度控制	速度入力指令	Spd. Cont.	Speed input command	由內部參數可設定3種速度	
	內部速度指令		Internal speed command	時間由內部參數可設定10ms~10000ms可設定有效/無效	
	直線加減速		Linear acce. / dece.	0~255rpm	
	零速度判定		Zero speed judge	內部參數可設定由 0~額定轉速	
	伺服鎖定		Servo lock	內部參數可設定有效/無效	
	內部扭力限制		Internal torque limit	0~300% 之額定扭力	
扭力控制	扭力入力指令	Torq. Cont.	Torque input command	0~±10V (正電壓限制正扭力)	
	扭力指令濾波		Torque command filt. wave	時間常數由 0~10000ms	
	速度 外部入力		Spd. Cont. Ext. input	0~10V (規格轉速)	
	限制 內部設定		Int. setting	可設定由 0~規格轉速	
手動運轉		Manual rotation		可用面板操作	
錯誤訊息		Error message		可記憶10組過去發生錯誤歷史	
過行程禁止		Over-travel prohibited		正或負行程禁止 (過行程時Power輸出Disable或Holding)	
類比監測輸出信號		Analog detection output signal		速度及扭力 (電流)、共兩點檢出	
編碼器信號輸出		Encoder signal output		A, B, C Phase line driver 輸出	
編碼器輸出分周比		Encoder output indexing ratio		1/N : N=1~16	
面板		Panel		5-digits LED display、四鍵	
其他	入力端子	Others	Inp. terminal	伺服開、警報重置、正逆轉禁止、控制模式切換、外部扭力限制、緊急停止、指令脈衝停止等	
	出力端子		Outp. terminal	伺服備妥、警報、完成定位、速度到達、零速度檢出、編碼器輸出等	
通訊機能 (RS232C)		Comm. function (RS232C)		參數設定、執行狀態監測顯示	



- 可驅動永磁同步馬達和感應電機
- 支援正弦波編碼器、開集極、旋轉變壓器、增量型編碼器、endat、hiperface。
- 具有PWM動態電流轉矩向量控制、V/F控制、PG控制、PM電機Encoder less控制等。
- 支援速度控制精密度 $\pm 0.2\%$ (without PG)、 $\pm 0.02\%$ (with PG)。
- 支援速度控制範圍1:200(無PG向量控制)、1:1000(帶PG向量控制)。
- 支援速度響應10Hz(無PG向量控制)、30Hz(帶PG向量控制)。
- 具有轉矩限制4種控制模式參數設定。
- 支援速度控制範圍0.125~12800rpm。
- 支援頻率精密度數字信號指令： $\pm 0.01\%$ ($-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$)，模擬指令： $\pm 0.1\%$ ($25^{\circ}\text{C} \pm 10^{\circ}\text{C}$)。
- 支援頻率設定解析數字信號指令： $\pm 0.01\text{Hz}$ (100Hz以下)，模擬指令： $\pm 0.03\text{Hz}/60\text{Hz}$ (12bit)。
- 支援頻率輸出解析0.0001Hz。
- 內含模擬信號DC-10V~+10V, 0~+10V(20K Ω), 4~20mA(250 Ω)。
- Torque limits provided for vector control only (4 quadrant stops can be hanged by parameter settings).
- Support frequency accuracy(temperature characteristics) digital references: $\pm 0.01\%$ (-10°C to $+40^{\circ}\text{C}$), analog references: $\pm 0.1\%$ (25°C to $\pm 10^{\circ}\text{C}$).
- Support frequency setting resolution digital references: 0.01Hz, analog references: 0.03Hz / 60Hz (12 bit with no sign).
- Support output frequency resolution 0.0001Hz.
- Analog references DC -10~+10V (20k Ω), 4~20mA (250 Ω).
- Braking torque approximately 20% (Approximately 150% with braking resistor option).
- Support RS-422, RF-2.4Ghz wireless communications(optional).
- 8 programmable digital inputs(acc./dec. time, KP, KI etc.), speed searches, speed control, torque control, positioning control, Restarting for momentary power loss, auto tuning (rotational or stationary), cooling fan control, torque limits, upper and lower limits for frequency references, counter, Input/output sequence control, energy-saving control, power-off protection, DC braking for starting and stopping, PID control, etc.
- Perfect protection function, from the start - braking - high speed - deceleration - stop - parking brake, highlight comfort and safety.
- Adjust the parameters of inverter, no down to slip.
- Support static motor parameter auto tuning and in a balanced state can open brake of motor learning.
- Encoder less: can help elevator reach the flat layer when encoder does not work.

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 =	$(HP \times 746) / (VOLT \times EFF)$ $(kW \times 1000) / VOLTS$	$(HP \times 746) / (VOLT \times EFF \times PF)$ $(kW \times 1000) / (VOLT \times PF)$	$(HP \times 746) / (VOLT \times EFF \times PF \times 1.73)$ $(kW \times 1000) / (VOLT \times PF \times 1.73)$
kW =	$(APM \times VOLT) / 1000$	$(APM \times VOLT \times PF) / 1000$	$(APM \times VOLT \times PF \times 1.73) / 1000$
HP =	$(AMP \times VOLT \times EFF) / 746$	$(AMP \times VOLT \times EFF \times PF) / 746$	$(AMP \times VOLT \times EFF \times PF \times 1.73) / 746$

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	Troque	T	$T = F \times R$	(kgf-m)
扭 力	Troque	T	$T = (716 \times Hp) / N$	(kgf-m)
扭 力	Troque	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	GD²	$GD^2 = 364 \times (F \times V^2 \times N^2)$	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)