



PeeiMoger



R & D / DESIGN / MANUFACTURE / SERVICE

研發 / 設計 / 製造 / 維修

北譯精機股份有限公司

PEI-EI Precision Machinery Co.,Ltd.

傳動無限 · 品味卓群

Self-Confident & Technology



北譯精機股份有限公司
PEI-EI Precision Machinery Co.,Ltd.

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公司簡介

Company Profile



北譯人、北譯心，大家共同一條心
造就企業生命共同體，以負責、用心的態度，
去製造一個能讓顧客滿意的產品，
同時在追求成長的過程中，也該善待這塊與
我們一起成長的土地，以留下一片淨土
予後代子孫。

The members of Pe-ei all are to be of one mind to achieve single community of enterprise. With all our hearts and conscientious to manufacture the products which can be customer's satisfactory for both quality and performance.

經營理念

以用心，負責的態度去製造乙份能讓顧客和自己滿意的產品，追求卓越的自我與產品的巔峰。

THE CONCEPT OF OPERATION

We are diligent and conscientious to turn out Pe-ei's products to be meet up with both customers and ourselves' satisfactory. We are pursuing a goal of perfection and excellence.

經營方針

新：觀念要新
速：產能要快
實：誠信為重
簡：務實簡化

THE STRATEGY OF OPERATION

New: keep update new concept
Fast: short delivery lead time.
Integrity: attach most importance to honest and credibility
Simple: to be pragmatic and simplified.



公司沿革

- 1979年 6月 成立萬力可工業社.資本捌拾萬元,設廠於台北縣三重市大同北路148巷.廠房40平方米產品VR型員工一人
- 1980年 5月 公司名稱更改北譯精機有限公司
廠址遷移至三重市大同南路143巷.廠房60平方米
產品APH/APS型
員工三人
- 1981年 遷移至三重市大同南路139巷
廠房120平方米
員工五人
- 1985年 增設三重市仁化街.廠房80平方米
產品十字轉向機電磁離合器制動器
員工八人
- 1986年10月 遷移台北縣新莊市化成路211巷
廠房1200平方米
員工十五人
- 1988年 引進AT-286電腦作為產品行銷管理
- 1990年 8月 公司名稱更改為北譯精機股份有限公司
由日本引進SBV型安全煞車馬達
資本額伍佰萬
引進CNC電腦車床
- 1990年12月 電磁制動器斷磁設計
通過中央標準局新型專利10年
- 1993年10月 提高資本額捌佰萬整
由行銷電腦化提升至管理電腦化
- 1994年 9月 成立天津北譯精密機械公司設廠於天津市復康路。
資本額260萬整,經營組裝與銷售
- 1994年11月 提高資本額至壹仟捌佰萬整
員工二十五人
電腦化管理納入網路系統
- 1995年 8月 廠區全面使用中央空調冷氣
- 1996年 5月 引進CNC車床自動供料彈性加工系統
- 1997年 1月 成立北譯二廠.設廠於新莊市化成路229巷23號，
產品小型齒輪減速馬達
- 1997年11月 通過英國SGS ISO-9002認證
- 1998年 8月 天津津南區購置廠地8660m²
- 1999年 3月 引進台灣濱井第一台「60SPNC」滾齒機
- 1999年 8月 小型馬達半自動化輸送機裝配品保系統
完成16000台/月
- 1999年11月 小型馬達通過 SGS CE 認證
- 2000年 8月 開發BN無勵磁煞車，成功推入
代步車市場10000/月
- 2000年10月 通過減速馬達新式樣專利認證
新式樣第068384號
- 2001年 2月 小馬達成功批量外銷英國、日本、比利時
- 2002年 4月 小馬達全系列通過UL認證
- 2003年10月 小馬達通過大陸3C認證
- THE COMPANY HISTORY
- June 1979 : Founded 'Wan Li Co Work Shops' with capital of US\$25,000 in producing VR belt-transmission variable speed motors. Factory occupied an area of 40 square meters with one worker.
- May 1980 : Renamed from 'Wan Li' to 'Pe-ei Precision Machinery Co., Ltd'. Changed to new plant having 60 square meters building and increased workers to three in producing APH/APS belt-transmission variable-speed motors.
- 1981 : Moved to new plant building having 120 square meters and increased workers to five.
- 1985 : Set up 2nd new plant having 80 square meters and eight workers in producing miter gear box and electromagnetic clutch & brake.
- 1986 : Transferred to new plant having 1200 square meters and 15 workers.
- 1988 : Brought in AT-286 computer system to assist on management of sales marketing.
- Aug. 1990 : To reorganize company as 'limited joint stock company' and increase capital investment to be US\$160,000. Brought in Japan BV type safety braking motor and bought a CNC lathe.
- Dec. 1990 : The design of electromagnet breaker for electromagnetic brake was granted a 10-year patent by MOEA's Bureau of Standards, Metrology and Inspection, Taiwan's Ministry of Economic Affairs.
- Oct. 1993 : Raised capital to US\$250,000. Upgrade management to be computerized system.
- Sep. 1994 : Set up Tianjin Pe-ei Precision Machinery, a subsidiary in China with capital US\$100,000, dedicated in assembly and sales in China market.
- Nov. 1994 : Raised capital to US\$600,000, with total workforce of 25. Internet service was put in the computerized administration system.
- Aug. 1995 : Centralized air conditioning systems were available for work site.
- May 1996 : Imported auto-feed flexible processing systems for CNC lathe.
- Jan. 1997 : Set up 2nd plant of Pe-ei in producing compact gearmotor.
- Nov. 1997 : Suggest ISO-9002 Certificate is available.
- Aug. 1998 : Purchased 8,660 square meters of land as site of Tianjin factory in the Jinnan district, Tianjin, China.
- March 1999 : Adopting the first Hamai '60SPNC' gear hobber.
- Aug. 1999 : Available for semi-automatic conveyor assembly quality assurance system for compact gear motor, which capacity can reach 16,000 per month.
- Nov. 1999 : The compact gear motor was passed SGS CE approval.
- Aug. 2000 : Developing BN safety brake to successfully enter into Scooter marketing for selling 10,000units per month.
- Oct. 2000 : Obtained new model patent of no. 068384 for deceleration motor.
- Feb. 2001 : Successfully extend the market of compact gear motor to U.K., Japan & Belgium.
- Apr. 2002 : The compact gear motor was UL approval.
- Oct. 2003 : The compact gear motor was acquired 3C approval in China.

精密設備

「全面品管」在北譯絕不是一句口號，我們對品質的執著，對每一個產品的要求都有嚴格的指導書，一步一腳印踏實的品管不論從進料到裝配完成品的檢驗，已完全符合客戶要求及北譯的品質標準，品保部門有最精密的檢驗儀器，所謂「工欲善其事 必先利其器」這就是北譯品質信賴的保證。

PRECISE EQUIPMENT

"Total quality control" is never just a slogan, but is our insistent pursuit of perfection and excellence on our products. We have detail strict QC guide and procedure to ensure the quality, which are including of precise inspection equipments.

裝配線的一角



Perfect Control

Professional



最專業的工具機

北譯為增進技術精良，斥資購置整套 CNC 電腦加工機械設備，以精密零件加工配合優秀工程人員，提升零件精度確保穩定的品質。

THE MOST PROFESSIONAL TOOL MACHINE

To promote our technology and skill, Pe-ei invested a whole set of CNC computer processing equipment. Accompany with qualified engineers, we are capable to elevate the accuracy of each component to assure of stable good quality.



技術研發室
Technical research and development room

Education and Training

Professional

電腦輔助設計

在每一個生產高品質的背後，每一個流程及步驟都必須投入很多的設計概念與經驗，在北譯我們有經驗豐富的優秀人才及高品質的設計環境，配合電腦輔助設計提高生產力及創造力，快速而完整地提供客戶一個滿意的解決問題之道。

COMPUTER-AIDED DESIGN

The superior quality of production is the result of tremendous design concept and cumulating experiences by investing in each procedures and steps. We have qualified persons of talent with good experiences and high quality design environment. And with computer-aided design program of CAD, we are competent to promote productivity as well as creativity that may completely and quickly consolidate to a satisfactory solution for our clients.



北譯對每一位員工定期的教育訓練，這樣才能讓北譯的每一位員工追求卓越的自我與產品的巔峰。

Pe-ei has a regularly scheduled training program for each employee to allow he/she to pursue the same goal of perfection, innovation and top quality as company.



電腦化倉儲管理
The computer stores in a storehouse the control



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乾式單板電磁離合器 制動器的優點：

- 操作性能好
- 可靠性高
- 靈敏度高
- 結構簡單、經濟

ADVANTAGE OF DRY SINGLE PANEL ELECTROMAGNETIC CLUTCH, BRAKE

- Excellent performance
- High reliability
- High precision
- Simple structure and compact size

電磁離合器 制動器的基本使用方法：

連接與切離動作

驅動部位與起動部位之間安裝離合器，則不須停止驅動處，起動處會依必要反應做連接與切離的動作

保持制動

為了維持於慣性負荷、緊急狀況、作業途中時的機器中斷而使用制動器

變速

作業途中時有相互轉換速度的情形、此時使用離合器、則不須關閉驅動處即可變速

正反轉

負荷點的正反轉切換時、配合離合器使用則驅動處只要順向回轉即可

高頻運轉

在快速循環中的斷續運轉、反覆利用馬達上的 ON 、 OFF 所提供的頻度有限、因此使用離合制動器、使之迅速反應、高精度的制動

位置推算

停留於測定位置或定量的傳送都須仰賴高精度定位裝置、使用離合制動器便能達到定位或定量功能

寸動

機械開始作動與位置接合時、只須以離合器瞬時作動即可

緩衝起動、制動

減少對負荷的衝擊之起動、停止，可調節轉速使用但如發熱過大、應把滑差的時間縮短

BASIC USE METHOD FOR ELECTROMAGNETIC CLUTCH, BRAKE

Connection and disconnection

To install clutch between driving location and starting location, there is no need to stop the driving and the starting point will be connection and disconnection just in accordance with necessary reaction.

Keep brake in action

Brake is used to maintain inertia load, or in case of emergency or abrupt stop during operation.

Speed change

During operation there are times that requires change of speed where the clutch comes to play. Transmission can then be made without turning off the driving point.

Reciprocal turn

Reciprocal turn switchover of the load point may be made with the use of the clutch by turning the driving point clockwise.

High frequency operation

In a fast cyclic intermittent run of the clutch brake, use the frequency as shown on ON, OFF of the motor repeatedly to achieve rapid reaction and high precision brake.

Position reckoning

Stop in a setting-out position or quantitative transmission all requires high precision positioning device. Use of the clutch brake can achieve this purpose.

Short movement

When machinery begins to move and connect the position, all needed is an instant action of the clutch.

Slow start and brake

Can be used to adjust the speed to reduce the impact upon the load starting or stopping. If it is overheating, shorten the time for the slipping difference.



Structure movement principle explanation



PeeiMoger
結構動作原理說明

離合器構造

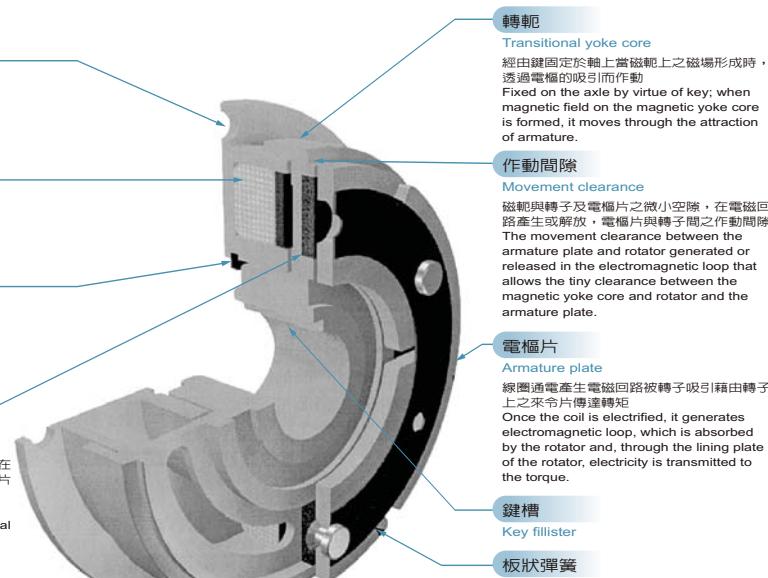
Structure of Clutch

磁軛
Magnetic yoke core
內裝線圈，採用法蘭式固定方式
With built-in coil by fixed flange method

線圈
Coil
產生強力之電磁場
To create strong electromagnetic field.

C型扣環槽
C-buckle ring fillister
在安裝時，可扣上 C 型扣環，作為軸承定位用
During installation, snap the C-buckle ring fillister for positioning the bearing.

來令片
Lining plate
高摩擦係數材質固定於轉軸上，在電磁發生時電樞片被吸持時電樞片與其之間可產生大的摩擦轉矩
Material of high friction coefficient is fixed on the transitional yoke core and, when electromagnetism is generated that absorbs the armature plate, between the transitional yoke core and the armature plate there may generate huge friction torque.



轉軸

Transitional yoke core

經由鍵固定於軸上當磁軛上之磁場形成時，透過電樞的吸引而作動
Fixed on the axle by virtue of key; when magnetic field on the magnetic yoke core is formed, it moves through the attraction of armature.

作動間隙

Movement clearance

磁軛與轉子及電樞片之間微小空隙，在電磁回路產生或解除，電樞片與轉子間之作動間隙
The movement clearance between the armature plate and rotator generated or released in the electromagnetic loop that allows the tiny clearance between the magnetic yoke core and rotator and the armature plate.

電樞片

Armature plate

線圈通電產生電磁回路被轉子吸引藉由轉子上之來令片傳達轉矩
Once the coil is electrified, it generates electromagnetic loop, which is absorbed by the rotator and, through the lining plate of the rotator, electricity is transmitted to the torque.

鍵槽

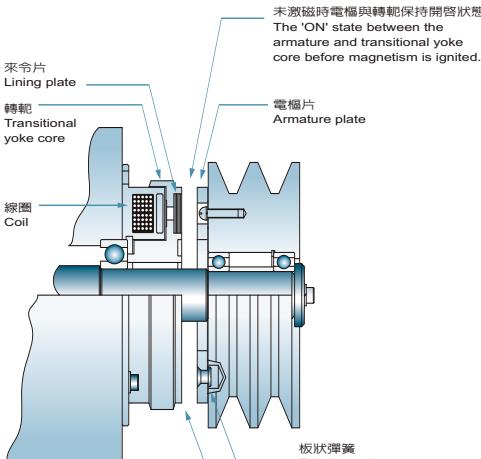
Key fillister

板狀彈簧
Tabular spring

在電流斷電，電磁回路結束時，以其彈性將電樞回歸正常位置結束轉矩之傳動
When electrical current is disrupted and electromagnetic loop is discontinued, the flexibility of the spring will return the armature to its normal position and end the torque movement.

動作原理

Movement theory



為圖示表示之方便，故意誇張此間距，其實
際值請參考尺寸規格表
The space is inflated for the convenience of illustration; for actual size, please refer to the specifications table.



Structure movement principle explanation



PeeiMoger
結構動作原理說明

制動器構造

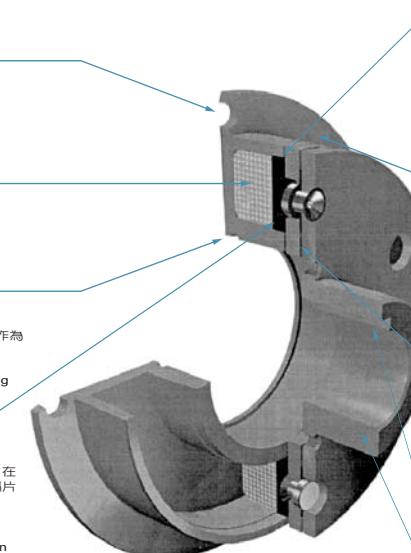
Structure of Brake

磁軛
Magnetic yoke core
內裝線圈，採用法蘭式固定方式
With built-in coil by fixed flange method

線圈
Coil
產生強力之電磁場
To create strong electromagnetic field.

C型扣環槽
C-buckle ring fillister
在安裝時，可扣上 C 型扣環，作為軸承定位用
During installation, snap the C-buckle ring fillister for positioning the bearing.

來令片
Lining plate
高摩擦係數材質固定於磁軛上，在電磁發生時電樞片被吸持時電樞片與其之間可產生大的摩擦轉矩
Material of high friction coefficient is fixed on the magnetic yoke core and, when electromagnetism is generated that absorbs the armature plate, between the magnetic yoke core and the armature plate there may generate huge friction torque.



電樞片

Armature plate

線圈通電產生電磁回路被磁軛吸引藉由磁軛上之來令片傳達轉矩
Once the coil is electrified, it generates electromagnetic loop, which is absorbed by the magnetic yoke core and, through the lining plate of the magnetic yoke core, electricity is transmitted to the torque.

作動間隙

Movement clearance

磁軛與電樞片之間微小空隙，在電磁回路激磁或消磁，電樞片與磁軛間之作動間隙
The movement clearance between the armature plate and magnetic yoke core ignited or de-ignited in the electromagnetic loop that allows the tiny clearance between the magnetic yoke core and armature plate.

板狀彈簧

Tabular spring

在電流斷電，電磁回路結束時，以其彈性將電樞片回歸正常位置結束轉矩之傳動
When electrical current is disrupted and electromagnetic loop is discontinued, the flexibility of the spring will return the armature to its normal position and end the torque movement.

鍵槽

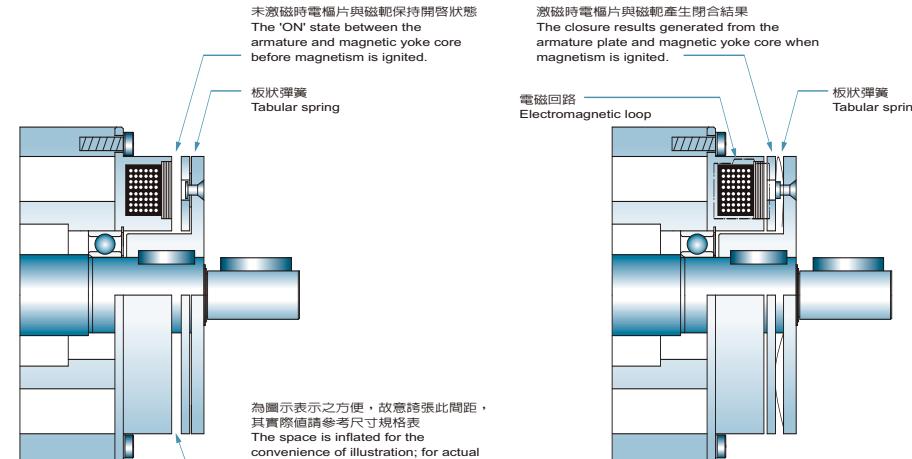
Key fillister

導座

導座
Guide seat
經由鍵固定於軸上當磁軛上之磁場形成時，透過電樞的吸引而作動
Fixed on the axle by virtue of key; when magnetic field on the magnetic yoke core is formed, it moves through the attraction of armature.

動作原理

Movement theory



為圖示表示之方便，故意誇張此間距，
其實際值請參考尺寸規格表
The space is inflated for the convenience of illustration; for actual size, please refer to the specifications table.



Description of models

PeeiMoger
型號說明

編號說明
Description of Serial Numbers

C - M | 4 | 0 - F | 0 | 2 - 2 | 5

產品代碼：
Products Codes:

C-代表離合器
C represents clutch.
B-代表制動器
B represents brake.

轉矩代碼：
Torque Codes:

請參考下頁轉矩代碼說明
Please refer to the
below-listed description
of torque.

型式代碼：
Type Codes:

請參考以下型號說明
Please refer to the
below-listed
description of models.

孔徑：
Aperture:

離合器-指轉軸的孔徑
Clutch - referring to the
aperture of the transitional
yoke core.
制動器-指導座的孔徑
Brake - referring to the
aperture of the guide seat.

轉矩代碼及容許最高迴轉數
Torque Codes and Maximum Allowable Number of Revolutions

轉矩代碼 Torque Code	動摩擦轉矩 Torque in Dynamic Friction(kgf-m)(Td)	靜摩擦轉矩 Torque in Static Friction(kgf-m)(Ts)	容許最高迴轉數 Maximum Allowable Number of Revolutions(rpm)	轉矩代碼 Torque Code	動摩擦轉矩 Torque in Dynamic Friction(kgf-m)(Td)	靜摩擦轉矩 Torque in Static Friction(kgf-m)(Ts)	容許最高迴轉數 Maximum Allowable Number of Revolutions(rpm)
S24	0.24	0.26	10000	M40	4.0	4.5	4000
S50	0.5	0.55	8000	M80	8.0	9.0	3000
M10	1.0	1.1	6000	T16	16	17.5	2500
M20	2.0	2.2	5000				

孔徑一覽表
List of Apertures

離合器、制動器 孔徑規格一覽表 / List of Aperture Specifications for Clutch, Brake							
轉矩代碼 Torque Code	孔位置 Hole Location	標準孔徑 Standard Aperture	孔徑加工最大範圍 Maximum Range of Reprocessed Aperture	轉矩代碼 Torque Code	孔位置 Hole Location	標準孔徑 Standard Aperture	
S24	轉子，導座 Rotator,Guide Seat	$\varnothing 10, \varnothing 15$	$\varnothing 8 \sim \varnothing 15$	M40	轉子 Rotator	$\varnothing 25, \varnothing 30$	$\varnothing 12.5 \sim \varnothing 35$
S50	轉子 Rotator	$\varnothing 12, \varnothing 15$	$\varnothing 8.5 \sim \varnothing 17$		導座 Guide Seat	$\varnothing 25, \varnothing 30$	$\varnothing 12.5 \sim \varnothing 32$
M10	導座 Guide Seat	$\varnothing 12, \varnothing 15$	$\varnothing 8.5 \sim \varnothing 17$	M80	轉子 Rotator	$\varnothing 30, \varnothing 40$	$\varnothing 18.5 \sim \varnothing 50$
M20	轉子 Rotator	$\varnothing 15, \varnothing 20$	$\varnothing 8.5 \sim \varnothing 20$		導座 Guide Seat	$\varnothing 30, \varnothing 40$	$\varnothing 18.5 \sim \varnothing 48$
	導座 Guide Seat	$\varnothing 15, \varnothing 20$	$\varnothing 8.5 \sim \varnothing 20$	T16	轉子 Rotator	$\varnothing 40, \varnothing 50$	$\varnothing 23.5 \sim \varnothing 60$
	導座 Guide Seat	$\varnothing 20, \varnothing 25$	$\varnothing 12.5 \sim \varnothing 30$		導座 Guide Seat	$\varnothing 40, \varnothing 50$	$\varnothing 23.5 \sim \varnothing 60$



Description of models

PeeiMoger
型號說明

型號說明
Description of Models

離合器 / Clutch								
機型 Model	導座型式 Guide Seat Type	參考頁碼 Reference Page No.	機型 Model	導座型式 Guide Seat Type	參考頁碼 Reference Page No.	機型 Model	導座型式 Guide Seat Type	參考頁碼 Reference Page No.
F01	無,NO	D1-1	F02	正裝導座 Right Position Guide	D1-2	F04	軸承導座 Bearing Guide	D1-3



離合器(軸承型) / Clutch (Bearing Type)								
機型 Model	導座型式 Guide Seat Type	參考頁碼 Reference Page No.	機型 Model	導座型式 Guide Seat Type	參考頁碼 Reference Page No.	機型 Model	導座型式 Guide Seat Type	參考頁碼 Reference Page No.
R01	無,NO	D1-4	R02	正裝導座 Right Position Guide	D1-5	R04	軸承導座 Bearing Guide	D1-6





Description of models

PeeiMoger
型號說明

編號說明

Description of Serial Numbers

S - M 4 0 - A 2 1

產品代碼：
Products Codes:

轉矩代碼：
Torque Codes:

型式代碼：
Type Codes:

S-代表離合制動器組合
S represents Clutch and Brake in One.

請參考轉矩代碼說明
Torque Codes: Please refer to the below-listed description of torque.

請參考以下機型說明
Please refer to the below-listed description of models.

單離合制動器組合/Single Clutch and Brake in One

型式 Model	名稱 Name	參考頁碼 Reference Page No.	型式 Model	名稱 Name	參考頁碼 Reference Page No.
A21	雙軸型 Dual-Axes Type	D3-2	A22	通軸型 Through-Axes Type	D3-4



雙離合器組合/Double Clutch Combination

型式 Model	名稱 Name	參考頁碼 Reference Page No.	型式 Model	名稱 Name	參考頁碼 Reference Page No.
A23	通軸型 Through-Axes Type	D3-6	A31	通軸型 Through-Axes Type	D3-8



Description of models

PeeiMoger
型號說明

S - M 4 0 - K 2 5

產品代碼：
Products Codes:

轉矩代碼：
Torque Codes:

型式代碼：
Type Codes:

S-代表離合制動器組合
S represents Clutch and Brake in One.

請參考轉矩代碼說明
Torque Codes: Please refer to the below-listed description of torque.

請參考以下機型說明
Please refer to the below-listed description of models.

離合器制動器組合/Clutch and Brake in One

型式 Model	名稱 Name	參考頁碼 Reference Page No.	型式 Model	名稱 Name	參考頁碼 Reference Page No.
K25	馬達直結單離合制動器臥式型 Motor-driven Horizontal Single Clutch and Brake	D3-10	K26	法蘭式單離合制動器立式型 Flange-type Vertical Single Clutch and Brake	D3-12



S - S 2 4 - A 2 6 - 1

產品代碼：
Products Codes:

轉矩代碼：
Torque Codes:

型式代碼：
Type Codes:

出力軸型式：
Type Codes:

S-代表離合制動器組合
S represents Clutch and Brake in One.

請參考轉矩代碼說明
Torque Codes: Please refer to the below-listed description of torque.

請參考以下機型說明
Please refer to the below-listed description of models.

請參考下列型式表
Horsepower Axle Models:
Please refer to the below list of models.

小型離合制動器組合/Mini Clutch and Brake in One	型式 Model	名稱 Name	參考頁碼 Reference Page No.
A26	小型離合制動器組合 Mini Clutch and Brake in One	D3-1	

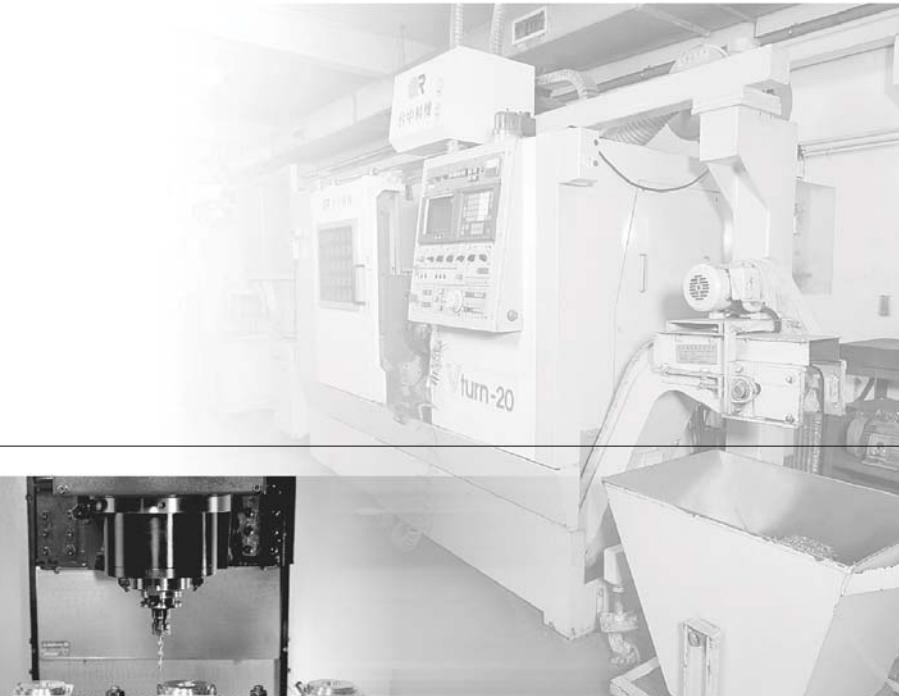


轉矩代碼 Torque Code	S24	S50	
出力軸型式 Horsepower Axle Model	1	1	2
模數 Module	0.6	0.8	0.6
齒數 Gear	10	12	14
使用馬達容量 Motor Capacity Used	25W	90W	40W 60W



Technical Data

PeeiMoger
技術資料



*High Quality
High Efficiency*

PeeiMoger
技術資料

Technical Data



機型選用 Selection of Machine Models

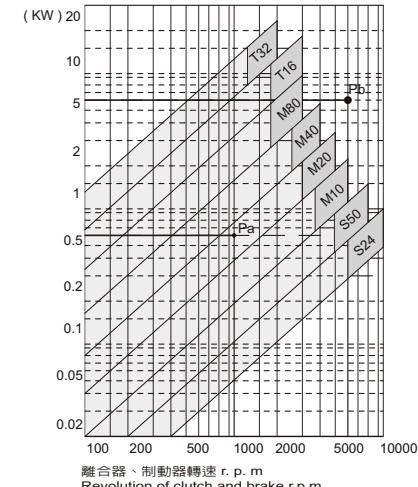
在一般的使用環境下離合器與制動器的選用是一件單純簡易的工作。為了能迅速的找到所適用的型式，請善用右邊之型式選定圖。圖中淺顏色部份為正常使用範圍，在深顏色部份就必須注意工作量，散熱能力及耗电量。

In normal condition, selection of clutch and brake is a very simple and easy task. In order to select the desired ones, please consult the selection chart on the right side. Light color in the chart shows normal use range while dark color indicates attention must be paid to the workload, heat dissipation capability and attribution.

離合器／制動器選定之負荷係數f Load Co-efficient f of Clutch/brake

負荷型態 Load Type	機械種類 Type of Machinery	負荷係數f Load Co-efficient f
定負荷 Fixed load 低慣性 Low inertia 低頻度 Low frequency	小型工作母機、小型紡織機、小型高速幫浦、小型木工機器、事務機器 Small machine tool, small textile machinery, mini-high speed pump, small carpenter machine, business machine.	1.5
變動負荷 Variable load 低慣性 Low inertia 低頻度 Low frequency	中型工作母機、小型冲床、木工機器、絞盤、小型幫浦、紡織機、空氣壓縮機、送風機 Medium machine tool, mini-lathe, carpenter machinery, capstan, mini-pump, textile machinery, air compressor, draught blower	2.0
變動負荷 High inertia 低頻度 Low frequency	工作母機、中型冲床、紡織機、印刷機、包裝機、輸送機、製藥機器、吊車、攪拌機、攻牙機 Machine tool, medium lathe, textile machinery, packaging machine, transmission machinery, pharmaceutical machinery, crane, mixer, Tapping Machine	2.5
重負荷 Heavy load 高慣性 High inertia 高頻度 High frequency	大型冲床、大型銑床、壓延機、造紙機、其他大型工作母機 Giant lathe, giant milling machine, rolling machine, paper machine, other giant machine tool.	3.5

型式選定圖 Selection Chart



例一、
馬達額定出力0.75KW的感應馬達，使用於低慣性、低頻度之變動負荷，離合器迴轉數為1000 r. p. m.，離合器／制動器額定動轉矩計算如下：

Example 1:

An induction motor with rated horsepower of 0.75W under variable load of low inertia and low frequency and revolution of the clutch is 1,000 r.p.m., computation of the rated dynamic torque of the clutch/brake is as follows:

$$0.75 \times \frac{2}{2.5} = 0.6 \text{ (KW)} \dots \text{Pa} \quad (\text{參照左圖})$$

由圖例0.6KW與1000 r. p. m. 的交點，選用型號M20離合器

By the cross point of 0.6KW and 1,000 r. p. m. as indicated in the chart, the desired model should be M20 clutch.

例二、

馬達額定出力7.5KW的感應馬達，使用於低慣性、低頻度之變動負荷，離合器設計迴轉數為5,500 r.p.m.，離合器／制動器額定動轉矩計算如下：

Example 2:

An induction motor with rated horsepower of 0.75W under variable load of low inertia and low frequency and revolution of the clutch is 5,500 r.p.m., computation of the rated dynamic torque of the clutch/brake is as follows:

$$7.5 \times \frac{2}{2.5} = 6 \text{ (KW)} \dots \text{Pb} \quad (\text{參照左圖})$$

由圖例6KW與5,500 r. p. m.的交點，超出選用範圍，為不正確之設計。

By the cross point of 0.6KW and 5,500 r. p. m. as indicated in the chart, the desired range is selected and we note that the design is not correct.



Technical Data

簡易計算 - 選用法

Simplified computation for selection

選用法所依據的準則如下：

The standard rules for selection are as follows:

準則（一）： T_d 需大於離合器之最大動摩擦轉矩
 T_d must be bigger than the maximum dynamic friction torque

Rule 1:
於連結時
Under connection

準則（二）： T_d 需大於離合器之最大靜摩擦轉矩
 T_d must be bigger than the maximum static friction torque

Rule 2:
於連結後
After connection

準則（三）： n 不得大於容許最高迴轉數
 n must not be bigger than the maximum allowable number of revolutions

Rule 3:

以“簡易計算-選用法”作為離合器／制動器轉矩選定之參考

Use the simplified computation for selection as a reference for selection of clutch/brake torque.

$$\text{公式} = T_d (\text{kgt-m}) = 973 \cdot \frac{Kw}{n} \cdot f = 726 \cdot \frac{HP}{n} \cdot f = 716 \cdot \frac{PS}{n} \cdot f$$

Formula

T_d ：離合器或制動器額定動轉矩(Kgf-m)
 T_d : The rated dynamic torque of clutch or brake
Kw : 馬達出力(KW)
KW : Motor horsepower (KW)
f : 負荷系數
f : Load co-efficient

HP : 馬達出力(HP)
HP : Motor horsepower
PS : 馬達出力(PS)
PS : Motor horsepower (PS)

例三、

馬達額定出力0.75KW的感應馬達，使用於低慣性、低頻度之變動負荷，離合器迴轉數為1000 r. p. m.，離合器／制動器額定動轉矩計算如下：

Example 3:

An induction motor with rated horsepower of 0.75W under variable load of low inertia and low frequency and revolution of the clutch is 1,000 r.p.m., computation of the rated dynamic torque of the clutch/brake is as follows:

$$T_d = 973 \times \frac{0.75}{1000} \times 2.0 = 1.5 \text{ (kgf-m)}$$

依據準則（一）、（二）選取M20離合器By Rules 1 and 2, we select M20 clutch.

例四、

馬達額定出力7.5KW的感應馬達，使用於低慣性、低頻度之變動負荷，離合器設計迴轉數為5,500 r. p.m.，離合器／制動器額定動轉矩計算如下：

Example 4:

An induction motor with rated horsepower of 0.75W under variable load of low inertia and low frequency and revolution of the clutch is 5,500 r.p.m., computation of the rated dynamic torque of the clutch/brake is as follows:

$$T_d = 973 \times \frac{7.5}{5500} \times 2.0 = 2.65 \text{ (kgf-m)}$$

若依準則（一）、（二）選取M40離合器，但是因為本離合器設計迴轉數5,500 r. p. m大於M40離合器容許最高迴轉數4,000 r. p. m，是為不正確之設計。但若以M20取代，則可符合需求，唯間隙調整壽命及工作量應加以檢討。By Rules 1 and 2, we should select M40. However, since the designed number of revolutions of the clutch is 5,500 r.p.m., which is bigger than the maximum allowable number of revolutions M40 operates, this is an incorrect design. If replaced by M20, it could meet the requirements, although clearance adjustment and service life and workload must be subject to review.



Technical Data

GD² 惯性矩計算

Computation of GD²inertia torque

● 實心圓棒之簡易_計算法

Simplified computation for solid pole

$$GD^2 = 3.0827 \times 10^{-12} \times D^4 \cdot L \cdot K$$

實心圓棒 solid pole

$$GD^2 = 3.0827 \times 10^{-12} \times (D^4 - d^4) \cdot L \cdot K$$

空心圓棒 Hollow pole

D : 圓棒直徑(mm)	L : 圓棒長度(mm)	K : 材料因數	鋼鐵=1	鋁材=0.34	鑄鐵=0.93	銅材=1.13
D : Pole diameter	L : Pole length	K : Material factor	Steel=1	Aluminum=0.34	Cast iron=0.93	Copper=1.13

例一、
直徑109mm，長度100mm的鋁棒， GD^2 為何？

Example:

An aluminum pole with a diameter of 109mm and length of 100mm, what is its GD^2 ?

簡算法：
Simplified computation method:

$$GD^2 = 3.0827 \times 10^{-12} \times D^4 \cdot L \cdot K \\ = 3.0827 \times 10^{-12} \times 109^4 \times 100 \times 0.34 \\ 0.34 = 0.014795 \text{ (kgf-m}^2\text{)}$$

GD² 公式

GD²formula

●回轉體的GD²

Gyro-rotor's GD^2

$$GD^2 = \frac{W \cdot D^2}{2 \times 10^6} \text{ (kgf-m}^2\text{)}$$

$$W = \frac{\pi D^2}{4 \times 10^6} \cdot L \cdot \gamma \text{ (kgw)}$$

實心圓柱體
Solid circular column

D : 圓柱體的直徑或外徑(mm)
D : Diameter or outer diameter of solid circular column

γ : 材料比重
 γ : Material proportion

鋼鐵=7.85
Steel=7.85

鋁材=2.7
Aluminum=2.7

鑄鐵=7.25
Cast iron=7.25

銅材=8.9
Copper=8.9

$$GD^2 = \frac{W (D^2 + d^2)}{2 \times 10^6} \text{ (kgf-m}^2\text{)}$$

$$W = \frac{(D^2 - d^2)}{4 \times 10^6} \cdot L \cdot \gamma \text{ (kgw)}$$

空心圓柱體
Hollow circular column

d : 空心圓柱體的內徑(mm)
d : Internal diameter of hollow circular column

●質量慣性矩 (I) 與重量慣性矩(GD²)換算

Conversion of quality solid moment (I) and weight inertia moment (GD^2) :

$$GD^2 = 4gI_x = 39.24I_x$$

g = 重力加速度 9.81 (m/sec²)

g = gravity plus velocity 9.81 (m/sec²)

I = 質量慣性矩 (kgf-m·sec²)

I = weight inertia moment (kgf-m·sec²)

●水平 / 垂直運動體

Level/vertical motion body

$$GD^2 = W \cdot \frac{D^2}{10^6} \text{ (kgf-m}^2\text{)}$$



Technical Data

離合器產品規範
Clutch - product specifications

離合器 / Clutch								
型號 Model	轉矩 Torque (kgfm)	電壓 Voltage(DC-V)	線圈 Coil		保護素子 Protective Prime Factor	最高回轉數 Maximum Number of Revolutions(r/min)		
			容量 Capacity(W)	電流 Current(A)	電阻 Resistance(Ω)			
C-S24-F □□-□□	0.24	24	10	0.42	58	TNR9G820K	10000	
C-S24-R □□-□□							500	
C-S50-F □□-□□	0.50		11	0.46	52	TNR9G820K	8000	
C-S50-R □□-□□								
C-M10-F □□-□□	1.0		15	0.63	38	TNR9G820K	6000	
C-M10-R □□-□□								
C-M20-F □□-□□	2.0		20	0.83	29	TNR9G820K	5000	
C-M20-R □□-□□								
C-M40-F □□-□□	4.0		25	1.04	23	TNR9G820K	4000	
C-M40-R □□-□□								
C-M80-F □□-□□	8.0		35	1.46	16	TNR9G820K	3000	
C-M80-R □□-□□								
C-T16-F □□-□□	16		45	1.88	13	TNR9G820K	2500	



Technical Data

重量/GD²
Weight / GD²

離合器 / Clutch				離合器 (軸 承 型) / Clutch (Bearing Type)			
型號 Model	重量 Weight (kgf)	GD ² (kgf·cm ²)		型號 Model	重量 Weight (kgf)	GD ² (kgf·cm ²)	
		轉軸 Transitional Yoke Core	電樞片 Armature Plate			轉軸 Transitional Yoke Core	電樞片 Armature Plate
C-S24-F01	0.310	1.26	3.63 x 10 ⁻¹	C-S24-R01	0.321	1.16	3.63 x 10 ⁻¹
-F02	0.325		5.50 x 10 ⁻¹	-R02	0.336		5.50 x 10 ⁻¹
-F04	0.335		5.50 x 10 ⁻¹	-R04	0.346		5.50 x 10 ⁻¹
C-S50-F01	0.460	2.94	1.69	C-S50-R01	0.500	2.94	1.69
-F02	0.500		2.41	-R02	0.540		2.41
-F04	0.660		4.19	-R04	0.700		4.19
C-M10-F01	0.830	8.94	4.72	C-M10-R01	0.870	8.94	4.72
-F02	0.910		6.83	-R02	0.950		6.83
-F04	1.190		1.20 x 10	-R04	1.230		1.20 x 10
C-M20-F01	1.500	2.71 x 10	1.91 x 10	C-M20-R01	1.570	2.71 x 10	1.91 x 10
-F02	1.660		2.65 x 10	-R02	1.730		2.65 x 10
-F04	2.110		3.78 x 10	-R04	2.180		3.78 x 10
C-M40-F01	2.760	8.56 x 10	5.22 x 10	C-M40-R01	2.890	8.56 x 10	5.22 x 10
-F02	3.050		7.22 x 10	-R02	3.180		7.22 x 10
-F04	3.800		1.10 x 10 ²	-R04	3.930		1.10 x 10 ²
C-M80-F01	5.100	2.52 x 10 ²	1.92 x 10 ²	C-M80-R01	5.300	2.52 x 10 ²	1.92 x 10 ²
-F02	5.400		2.54 x 10 ²	-R02	5.600		2.54 x 10 ²
-F04	6.900		3.62 x 10 ²	-R04	7.100		3.62 x 10 ²
C-T16-F01	9.300	7.70 x 10 ²	5.48 x 10 ²	C-T16-R01	11.20	7.70 x 10 ²	5.48 x 10 ²
-F02	10.50		7.59 x 10 ²	-R02	12.40		7.59 x 10 ²
-F04	13.00		1.06 x 10 ³	-R04	14.90		1.06 x 10 ³

制動器產品規範
Brake - Production Specifications

制動器 / Brake								
型號 Model	轉矩 Torque (kgfm)	電壓 Voltage(DC-V)	線圈 Coil		保護素子 Protective Prime Factor	最高回轉數 Maximum Number of Revolutions(r/min)		
			容量 Capacity(W)	電流 Current(A)	電阻 Resistance(Ω)			
B-S24-F □□-□□	0.24	24	10	0.42	58	TNR9G820K	10000	
B-S50-F □□-□□			11	0.46	52	TNR9G820K	8000	
B-M10-F □□-□□	1.0		15	0.63	38	TNR9G820K	6000	
B-M20-F □□-□□			20	0.83	29	TNR9G820K	5000	
B-M40-F □□-□□	4.0		25	1.04	23	TNR9G820K	4000	
B-M80-F □□-□□			35	1.46	16	TNR9G820K	3000	
B-T16-F □□-□□	16		45	1.88	13	TNR9G820K	2500	

制動器 / Brake				制動器 / Brake			
型號 Model	重量 Weight (kgf)	GD ² (kgf·cm ²)		型號 Model	重量 Weight (kgf)	GD ² (kgf·cm ²)	
		電樞片 Armature Plate	電樞片 Armature Plate			電樞片 Armature Plate	電樞片 Armature Plate
B-S24-F01	0.200	3.63 x 10 ⁻¹	3.63 x 10 ⁻¹	B-M40-F01	1.680	5.22 x 10	5.22 x 10
-F02	0.215	5.50 x 10 ⁻¹	5.50 x 10 ⁻¹	-F02	1.970	7.22 x 10	7.22 x 10
-F03	0.215	5.50 x 10 ⁻¹	5.50 x 10 ⁻¹	-F03	1.970	7.22 x 10	7.22 x 10
B-S50-F01	0.280	1.69	1.69	B-M80-F01	3.150	1.92 x 10 ²	1.92 x 10 ²
-F02	0.320	2.41	2.41	-F02	3.450	2.54 x 10 ²	2.54 x 10 ²
-F03	0.320	2.41	2.41	-F03	3.450	2.54 x 10 ²	2.54 x 10 ²
B-M10-F01	0.500	4.72	4.72	B-T16-F01	5.900	5.48 x 10 ²	5.48 x 10 ²
-F02	0.580	6.83	6.83	-F02	7.100	7.59 x 10 ²	7.59 x 10 ²
-F03	0.580	6.83	6.83	-F03	7.100	7.59 x 10 ²	7.59 x 10 ²
B-M20-F01	0.910	1.91 x 10	1.91 x 10				
-F02	1.070	2.65 x 10	2.65 x 10				
-F03	1.070	2.65 x 10	2.65 x 10				

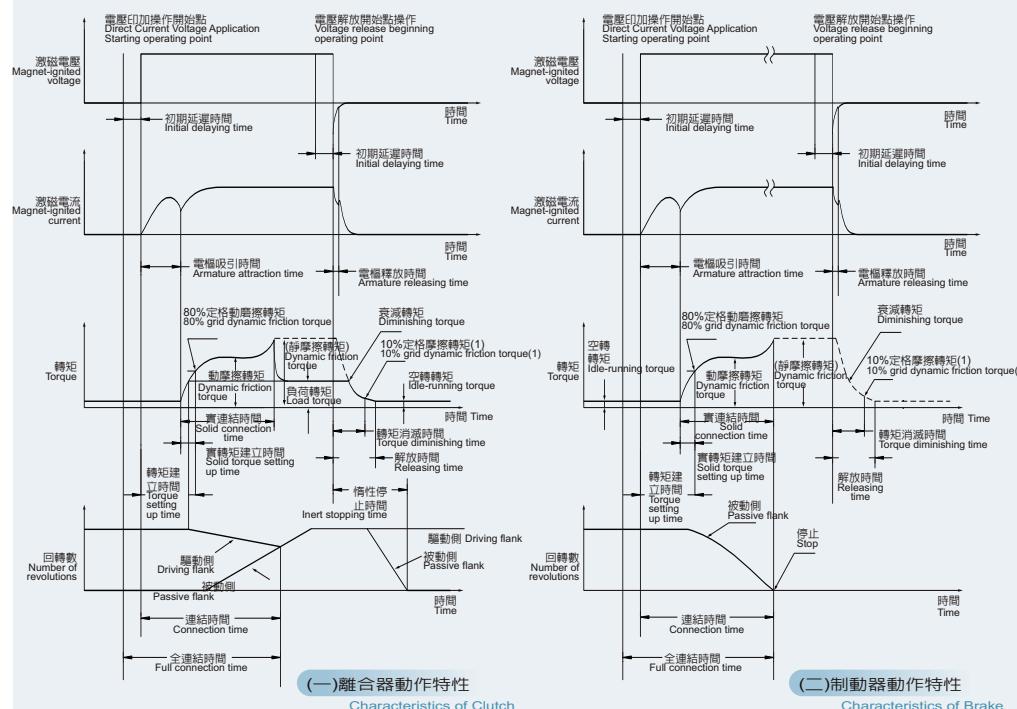
The Motion Characteristics Of Clutch, Brake

PeelMoger

離合器、制動器的動作特性

電磁離合器、制動器功能，除扭矩傳遞、制動以外，其電樞片吸引釋放時間，是否能在規定時間內完成機械動作更形重要。Except transmission and braking, the function of electromagnetic clutch and brake seems more important hinging on whether the time it takes to attract and release the armature plate in time to complete the mechanic movement.

圖(一)(二)為激磁動作形電磁離合器、制動器，電壓、電流波形。
Fig. 1 and Fig. 2 show magnet-motion electromagnetic clutch, brake, voltage and current wave.



測試電路控制方式，是利用電磁繼電器接點控制直流側，使其產生ON-OFF動作。直流電源採用DC24V，線圈並接保護素子(TNR9G820K)吸收突波電壓，保護接點壽命及避免線圈絕緣被破壞。

The method to test circuit control is to use electromagnetic relay junction to control the direct current flank, making it create ON-OFF movement. The power source of direct current uses DC24V and coil connected with protective prime factor (TNR9G820K) to attract abrupt voltage so as to protect the service life of the junction and avoid damage of the coil insulation.

離合器、制動器之電樞片吸引釋放時間 Attraction and Releasing Time of Armature Plate in Clutch and Brake

	轉矩代碼 Torque Code	動摩擦轉矩 Torque in Dynamic Friction(kg·m)(Td)	激磁電阻 Magnet-ignited Resistor(Ω)	線圈電流 Coil Current(A)	電樞吸引時間 Armature attraction time(ms)	電樞釋放時間 Armature releasing time(ms)	調整間隙 Adjustment of clearance(mm)
離合器 Clutch	S24	0.24	57.6	0.42	10.0	13.0	0.2±0.05
	S50	0.50	52.4	0.46	13.6	14.4	0.2±0.05
	M10	1.00	38.4	0.63	21.0	15.2	0.2±0.05
	M20	2.00	28.8	0.83	18.4	58.0	0.2±0.05
	M40	4.00	23.0	1.04	36.0	70.0	0.3±0.05
	M80	8.00	16.5	1.46	80.0	98.0	0.3±0.05
	T16	16.0	12.8	1.88	115	210	0.5±0.05
制動器 Brake	S24	0.24	57.6	0.42	8.0	10.0	0.2±0.05
	S50	0.50	52.4	0.46	10.4	11	0.2±0.05
	M10	1.00	38.4	0.63	12.8	16	0.2±0.05
	M20	2.00	28.8	0.83	13.2	26	0.2±0.05
	M40	4.00	23.0	1.04	24.0	28.0	0.3±0.05
	M80	8.00	16.5	1.46	44.0	62.0	0.3±0.05
	T16	16.0	12.8	1.88	85.0	125	0.5±0.05

Basic Control Circuit

PeelMoger

基本控制電路

直流電源

Direct Current (DC) power source

離合器、制動器直流電源一般採用交流電路整流，可分為半波整流及全波整流。

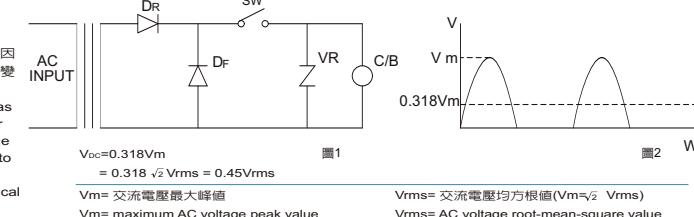
The DC power source of clutch and brake generally uses alternating current (AC) circuit commutation, which is classified as half-wave commutation and full-wave commutation.

1. 半波整流電路

Half-wave commutation circuit

半波整流電路是使用一個矽二極體當做整流子，電路構造較簡單且價格便宜，但因濾波因素較大，所以電流波形變動大，相對扭矩也變動大，較不切實用。

Half-wave commutation circuit uses diode as commutator, the structure of which is rather simple and the price is cheap. However, due to the ripple factor, the current wave tends to vary greatly, causing rather huge variation relatively in torque. That makes it not practical in use.

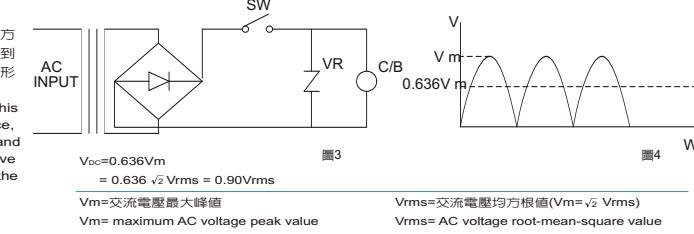


2. 全波整流電路

Full-wave commutation circuit

一般離合器、制動器直流電源供應都使用此方式，是利用變壓器降壓後做橋式整流，而達到濾波因素較小較平滑電壓波形，所以電流波形變動小，扭矩也較穩定。

Generally speaking, clutch and brake use this manner in their DC power supply. In practice, it uses transformer to depress the voltage and make bridge commutation in order to achieve rather smooth voltage wave to circumvent the ripple factor. Consequently, variation of current wave is nominal and torque can be comparatively steady.



電壓調節控制

Voltage regulation and control

離合器、制動器在有些場合須要控制扭矩大小，可使用電壓調節方式控制。

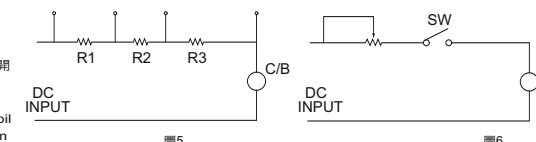
On some occasions, torque of clutch and brake needs to be regulated and controlled and the method used relies on voltage regulation and control.

1. 固定電阻式或可變電阻式

Fixed resistor or variable resistor method

固定電阻式是數個固定電阻與離合器、制動器線圈串聯，利用切換開關控制不同電阻值之壓降而達到調整電壓之方法。(圖5)可變電阻式是利用可變電阻VR，調整不同電阻值而達到變動連續電壓。(圖6)

The fixed resistor method is several fixed resistors in series with coil of clutch, brake, using the switch to control voltage depression from different resistor values and thereby achieve the goal of voltage adjustment. Fig. 5 show how variable resistor (VR) at work, adjusting different values to reach the goal of varying continuous voltage. Fig. 6

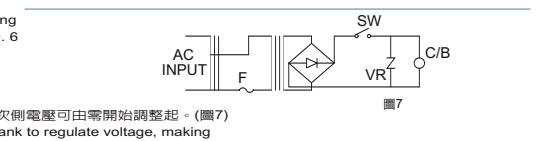


2. 可變電壓調整器方式

Variable voltage regulator method

是利用自耦變壓器裝置在變壓器一次側，來調整電壓，使變壓器二次側電壓可由零開始調整起。(圖7)

The method installs auto-transformer on the primary transformer flank to regulate voltage, making the second transformer flank to adjust from zero (see Fig. 7).



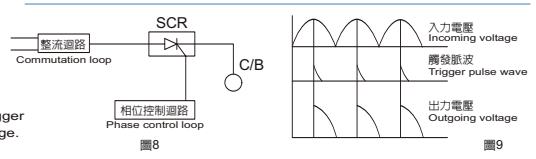
3. 相位控制

SCR phase control

是利用相位控制回路(如UJT等)產生觸發脈波來控制SCR

輸出電壓相位角度。(圖8)(圖9)

The method uses phase to control loops such as UJT to create trigger pulse wave in order to control the transmitted phase angle of voltage.

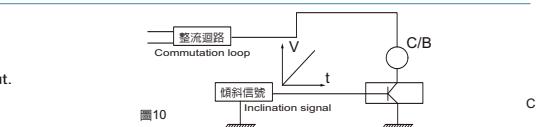


電流調整控制

Current regulation and control

是利用晶體控制回路可以得到較穩定扭力輸出。(圖10)

Crystal is used to control the loop to have steady torque output.





Use Conditions and Caution When in Use



PeeiMoger
使用條件與注意事項

電源系統

Power Source System

激磁電壓之正確使用，激磁電壓之標準為DC24V，而在高、低性能上之影響，以不超過 $\pm 10\%$ 為原則。Please note the standard magnet-ignited voltage is DC24V while under the influence of high and low performance should not in principle exceed $\pm 10\%$. This is the correct use of magnet-ignited voltage.

電氣接點保護

Electric contact protection

離合器與制動器 ON-OFF 之電氣接點，應以本公司所提供之突波吸收器並聯，以保護控制接點及系統。若以電晶體或固態電驅控制，除需注意離合器與制動器切換干涉狀況，亦應加裝突波吸收裝置，以保護接點。The electric contact ON-OFF of clutch and brake is recommended connected in parallel using the abrupt wave absorber we provide so that the electric contact and system may be duly protected. If controlled by transistor or solid relay, attention must be given to the switching disturbance of the clutch and brake. However, for better protection, additional installation of the abrupt wave absorber is recommended.

使用環境

Use Environment

- 使用溫度40°C以下室外使用時，要有良好之防護。儘量避免暴露在雨水或腐蝕性較高的氣體下作業。
- When used outdoors under temperature 40°C, excellent protection is needed. Try to avoid operations exposed in rains or to highly erosive gas.
- 於高負荷作業下，應注意通風及冷卻之問題，摩擦面摩擦時，可能會有少許火花發送，於有塵爆或防爆顧慮的場合，不可使用。
- When operating with high load, be careful with ventilation and cooling issues. A spark of fire may ignite when the friction surface is in friction and it is not suitable on occasions when dust may rise or anti-explosion preparation is in progress.

摩擦間隙調整

Friction Clearance Adjustment

來令片與電樞片的間隙，會隨著摩耗的發生而增大，應將間隙調整至“規格間隙”，以免失效。
The clearance between lining plate and armature plate may become bigger with the occurrence of friction. To avoid ineffectiveness, adjust the clearance to the 'specified clearance specifications.'

汙染

Pollution

本產品為乾式單板激磁性結構，其傳動靠兩高摩擦係數平面，傳動扭矩。絕對避免水、粉塵、油脂類產品之附著。

This product is of dry single-panel magnet-ignited structure, the driving of which relies on the friction coefficient of the two quotients and driving torque. It is absolutely necessary to avoid water, dust or grease to be attached to the product.

摩擦轉矩

Friction torque

乾式單板電磁離合器與制動器的靜摩擦扭矩，依各機型有別，大約成一定值。但動摩擦係數，會隨使用的轉速(r. p. m.)提高而略有遞減。

The static friction torque of dry single-panel magnet-ignited clutch and brake is not the same, but approximately have a fixed value. However, the dynamic friction co-efficient will slightly reduce progressively with the elevation of the r.p.m. used.

使用初期，由於兩相對應摩擦面尚不十分平滑，初期的摩擦轉矩約為額定靜摩擦轉矩的70%-80%，經使用後自然磨合達額定轉矩，為必經過程。諸如以上的定轉矩使用場合，請洽本公司技術諮詢部門，以利協助設計。In the initial stage of use when friction of the two phases has not become smooth, the initial friction torque ranges approximately 70% to 80% of the rated value. The process that must go through calls for natural abrasion after use before the rated torque value is reached.



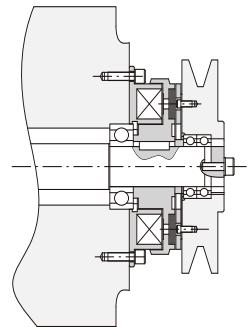
Applied Model Examples of Clutch and Brake



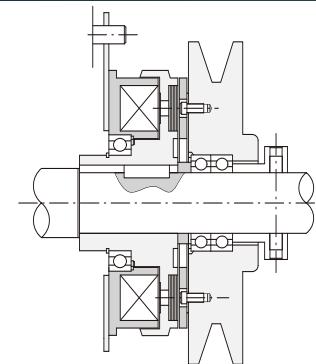
PeeiMoger

離合器制動器應用範例

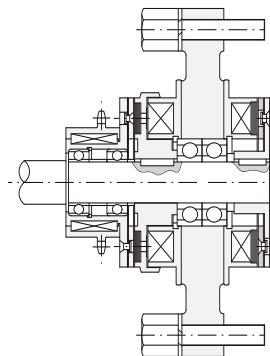
C-F01 應用範例/Applied Model Examples



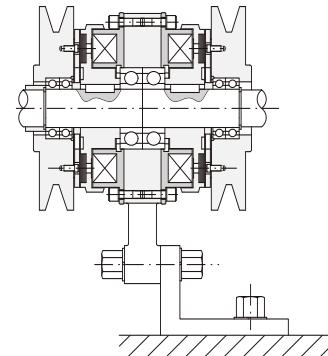
C-R01 應用範例/Applied Model Examples



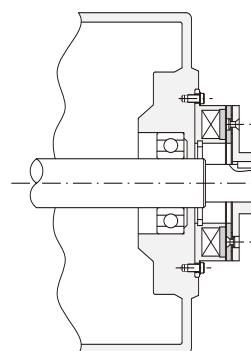
C-F04 & B-F03 應用範例/Applied Model Examples



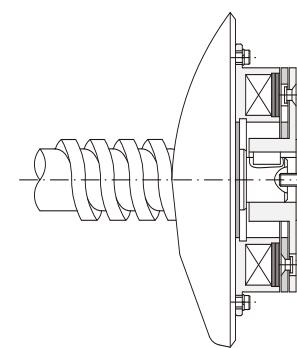
C-F01 應用範例/Applied Model Examples



B-F02 應用範例/Applied Model Examples



B-F03 應用範例/Applied Model Examples



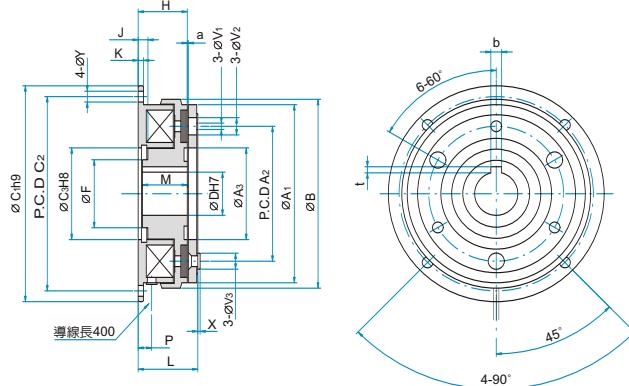


CLUTCH

The logo consists of the brand name "PeeiMoger" in a white sans-serif font, with "離合器" written below it in a larger, bold, black sans-serif font. Above the text is a blue oval containing a white diamond shape.

法蘭式無導座型 Flange Guideless Seat Type

C-□□□-F01-□□
轉矩代碼
Torque Code 孔徑
Aperture



特性 / Characteristics							
轉矩代碼 Torque Code	動轉矩 Dynamic Torque(kgfm)	靜轉矩 Static Torque(kgfm)	功率 Power (w/20°C)	電流 Current (A/20°C)	電壓 Voltage DC-V	最高轉速 Highest RPM (r.p.m.)	重量 Weight (kgf)
S24	0.24	0.27	10	0.42	24V	10000	0.31
S50	0.5	0.55	11	0.46	24V	8000	0.46
M10	1.0	1.1	15	0.63	24V	6000	0.83
M20	2.0	2.2	20	0.83	24V	5000	1.50
M40	4.0	4.5	25	1.04	24V	4000	2.76
M80	8.0	9	35	1.46	24V	3000	5.10
T16	16	17.5	45	1.88	24V	2500	9.30

安裝尺寸 (mm) / Installation Size (mm)

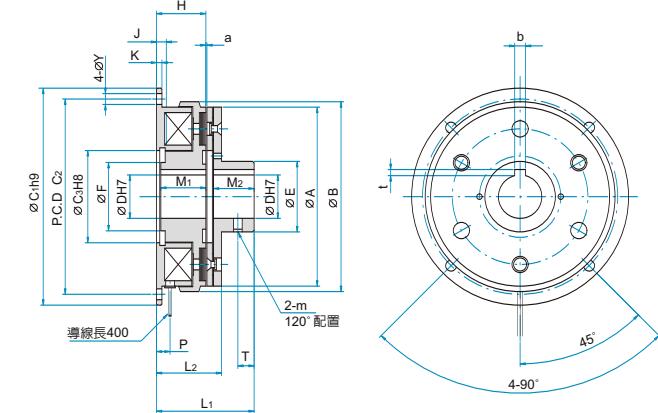
轉矩代碼 Torque Code	A1	A2	A3	B	C1	C2	C3	F	H	J	K	L	M	P	V1	V2	V3	X	Y	a	øD	b	t
S24	50	38	26	54	65	58	26	22	28	3.2	2	31.5	26	8	3.1	6.5	5	1	4.5	0.2 (+0.05) (-0.05)	10	4	1.4
S50	63	46	34.5	67.5	80	72	35	24	24	3.6	2	28	22	7.5	3.1	6.3	5	1	5		15	5	2.3
M10	80	60	41.5	85	100	90	42	30.5	26.5	4.3	2.5	31	24	8	4.1	8	6.2	1.2	6		12	4	1.8
M20	100	76	51.5	106	125	112	52	40	30	5	3	36	27	9	5.1	11	8	1.5	7		15	5	2.3
M40	125	95	61.5	133	150	137	62	45	33.5	5.5	3.5	41	30	9	6.2	12	10	1.8	7		20	5	2.3
M80	160	120	79.5	169	190	175	80	62	37.5	6.1	4	47	34	11.5	8.2	15	13	2.2	9.5	0.3 (+0.05) (-0.10)	25	7	3.3
T16	200	158	99.5	212.5	230	215	100	77	44	7	5	55.5	40	13	10.2	20	17.5	4	9.5		30	7	3.3
																			0.5 (+0.05) (-0.10)	40	10	3.3	
																			50	12	3.3		



CLUTCH

法蘭式正裝導座型
Flange Guide Seat Type

C-□□□-F02-□□
轉矩代碼 Torque Code 孔徑 Aperture



特性 / Characteristics							
轉矩代碼 Torque Code	動轉矩 Dynamic Torque(kgfm)	靜轉矩 Static Torque(kgfm)	功率 Power (W/20°C)	電流 Current (A/20°C)	電壓 Voltage DC-V	最高轉速 Highest RPM (r.p.m.)	重量 Weight (kgf)
S24	0.24	0.27	10	0.42	24V	10000	0.325
S50	0.5	0.55	11	0.46	24V	8000	0.50
M10	1.0	1.1	15	0.63	24V	6000	0.91
M20	2.0	2.2	20	0.83	24V	5000	1.66
M40	4.0	4.5	25	1.04	24V	4000	3.05
M80	8.0	9	35	1.46	24V	3000	5.40
T16	16	17.5	45	1.88	24V	2500	10.5

安裝尺寸 (mm) / Installation Size (mm)

轉矩代碼 Torque Code	A	B	C1	C2	C3	E	F	H	J	K	L1	L2	M1	M2	P	T	Y	a	m	øD	b	t
S24	50	54	65	58	26	27	22	28	3.2	2	43.5	34.5	26	12	8	5	4.5	0.2 (+0.05) (-0.05)	M4X0.7	10	4	1.4
S50	63	67.5	80	72	35	26	24	24	3.6	2	43	32	22	15	7.5	6	5		M4X0.7	15	5	2.3
M10	80	85	100	90	42	32	30.5	26.5	4.3	2.5	51	35	24	20	8	8	6		M5X0.8	12	4	1.8
M20	100	106	125	112	52	42	40	30	5	3	61	41.5	27	25	9	10	7		M5X0.8	15	5	2.3
M40	125	133	150	137	62	49	45	33.5	5.5	3.5	71	47	30	30	9	12	7		M6X1.0	20	5	2.3
M80	160	169	190	175	80	65	62	37.5	6.1	4	85	54	34	38	11.5	15	9.5	0.3 (+0.05) (-0.10)	M8X1.25	25	7	3.3
T16	200	212.5	230	215	100	83	77	44	7	5	100.5	64.5	40	45	13	18	9.5	0.5 (+0.02) (-0.02)	M8X1.25	30	7	3.3
																		40	10	3.3		
																		50	12	3.3		



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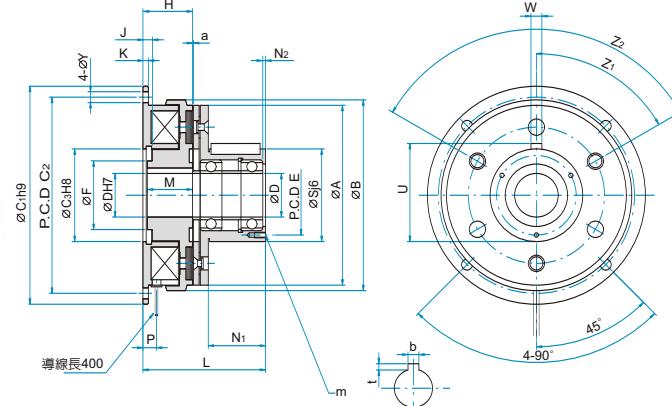
PeeiMoger
離合器

法蘭式軸承導座型
Flange Bearing Guide Seat Type

C-□□□-F04-□□

轉矩代碼
Torque Code

孔徑
Aperture



特性 / Characteristics								
轉矩代碼 Torque Code	動轉矩 Dynamic Torque(kgfm)	靜轉矩 Static Torque(kgfm)	功率 Power (w/20°C)	電流 Current (A/20°C)	電壓 Voltage DC-V	最高轉速 Highest RPM (r.p.m.)	重量 Weight (kgf)	
S50	0.5	0.55	11	0.46	24V	8000	0.66	
M10	1.0	1.1	15	0.63	24V	6000	1.19	
M20	2.0	2.2	20	0.83	24V	5000	2.11	
M40	4.0	4.5	25	1.04	24V	4000	3.80	
M80	8.0	9	35	1.46	24V	3000	6.90	
T16	16	17.5	45	1.88	24V	2500	13.0	



CLUTCH

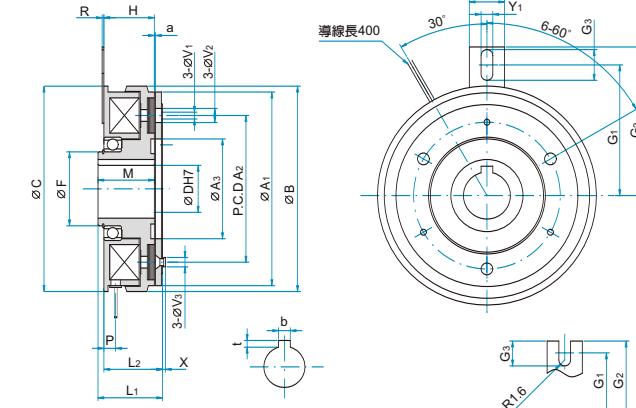
PeeiMoger
離合器

軸承式無導座型
Bearing Guideless Seat Type

C-□□□-R01-□□

轉矩代碼
Torque Code

孔徑
Aperture



特性 / Characteristics								
轉矩代碼 Torque Code	動轉矩 Dynamic Torque(kgfm)	靜轉矩 Static Torque(kgfm)	功率 Power (w/20°C)	電流 Current (A/20°C)	電壓 Voltage DC-V	最高轉速 Highest RPM (r.p.m.)	重量 Weight (kgf)	
S24	0.24	0.27	10	0.42	24V	10000	0.28	
S50	0.5	0.55	11	0.46	24V	8000	0.50	
M10	1.0	1.1	15	0.63	24V	6000	0.87	
M20	2.0	2.2	20	0.83	24V	5000	1.57	
M40	4.0	4.5	25	1.04	24V	4000	2.89	
M80	8.0	9	35	1.46	24V	3000	5.30	

安裝尺寸 (mm) / Installation Size (mm)																										
轉矩代碼 Torque Code	A	B	C1	C2	C3	E	F	H	J	K	L	M	N1	N2	P	Y	S	U	W	a	m	Z1	Z2	ØD	b	t
S50	63	67.5	80	72	35	33	24	24	3.6	2	52	22	20.5	2	7.5	5	38	39.5	4	0.2	3-M4x0.7 深4 60° 3-120°	12	4	1.8		
M10	80	85	100	90	42	37	30.5	26.5	4.3	2.5	61	24	26	2	8	6	45	47	5	(+0.05) (-0.05)	3-M4x0.7 深6 60° 3-120°	15	5	2.3		
M20	100	106	125	112	52	47	40	30	5	3	71	27	29.9	3	9	7	55	57	5	4-M4x0.7 深8 45° 4-90°	20	5	2.3			
M40	125	133	150	137	62	54	45	33.5	5.5	3.5	86.5	30	40	2	9	7	64	67	7	0.3 (+0.05) (-0.10)	4-M4x0.7 深8 45° 4-90°	25	7	3.3		
M80	160	169	190	175	80	64	62	37.5	6.1	4	104	34	50	3	11.5	9.5	75	78	7	0.5 (+0.02) (-0.02)	4-M5x0.8 深8 45° 4-90°	30	7	3.3		
T16	200	212.5	230	215	100	79	77	44	7	5	124.5	40	60	5	13	9.5	90	93	10	4-M6x1 深12 45° 4-90°	40	10	3.3			

安裝尺寸 (mm) / Installation Size (mm)																									
轉矩代碼 Torque Code	A1	A2	A3	B	C	F	G1	G2	G3	H	L1	L2	M	P	R	V1	V2	V3	X	Y1	Y2	a	ØD	b	t
S24	50	38	26	54	54	15	28	31	4.6	24	27	27	24	8	1.6	3.1	6.5	5	1	3.2	8	10	4	1.8	
S50	63	46	34.5	67.5	67.5	20	41.5	49.5	7	24	31	28	27	7.5	2	3.1	6.3	5	1	5	14	0.2	12	4	1.8
M10	80	60	41.5	85	85	25	57.5	65	9	26.5	34.5	31.5	29.5	8	2	4.1	8	6.2	1.2	6	16	(+0.05) (-0.05)	15	5	2.3
M20	100	76	51.5	106	106	30	62.5	70	10	30	40	36	34	9	2	5.1	11	8	1.5	7	16	20	5	2.3	
M40	125	95	61.5	133	133	40	77.5	85	10	33.5	44.5	40.5	37.5	9	2	6.2	12	10	1.8	7	16	0.3	25	7	3.3
M80	160	120	79.5	169	169	50	100	112	18	37.5	51.5	47	42	11.5	3.2	8.2	15	13	2.2	9	25	(+0.05) (-0.10)	30	7	3.3



CLUTCH

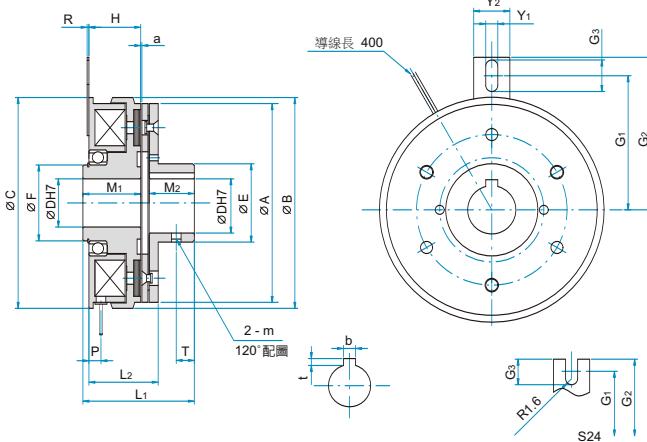
PeeiMoger
離合器

軸承式正裝導座型
Bearing Guide Seat Type

C-□□□-R02-□□

轉矩代碼
Torque Code

孔徑
Aperture



特性 / Characteristics

轉矩代碼 Torque Code	動轉矩 Dynamic Torque(kgfm)	靜轉矩 Static Torque(kgfm)	功率 Power (W/20°C)	電流 Current (A/20°C)	電壓 Voltage DC-V	最高轉速 Highest RPM (r.p.m.)	重量 Weight (kgf)
S24	0.24	0.27	10	0.42	24V	10000	0.3
S50	0.5	0.55	11	0.46	24V	8000	0.54
M10	1.0	1.1	15	0.63	24V	6000	0.95
M20	2.0	2.2	20	0.83	24V	5000	1.73
M40	4.0	4.5	25	1.04	24V	4000	3.18
M80	8.0	9	35	1.46	24V	3000	5.60

安裝尺寸 (mm) / Installation Size (mm)

轉矩代碼 Torque Code	A	B	C	E	F	G1	G2	G3	H	L1	L2	M1	M2	P	R	T	Y1	Y2	a	m	ØD	b	t
S24	50	54	54	27	15	28	31	4.6	24	39	30	24	12	8	1.6	5	3.2	8	M4X0.7	10	4	1.8	
S50	63	67.5	67.5	26	20	41.5	49.5	7	24	46	31.5	27	15	7.5	2	6	5	14	M4X0.7	12	4	1.8	0.2 ± 0.05
M10	80	85	85	32	25	57.5	65	9	26.5	54.5	35.5	29.5	20	8	2	8	6	16	M5X0.8	15	5	2.3	
M20	100	106	106	42	30	62.5	70	10	30	65	41.5	34	25	9	2	10	7	16	M5X0.8	20	5	2.3	
M40	125	133	133	49	40	77.5	85	10	33.5	74.5	46.5	37.5	30	9	2	12	7	16	M6X1.0	25	7	3.3	0.3 +0.05
M80	160	169	169	65	50	100	112	18	37.5	89.5	54	42	38	11.5	3.2	15	9	25	M8X1.25	30	7	3.3	-0.1



CLUTCH

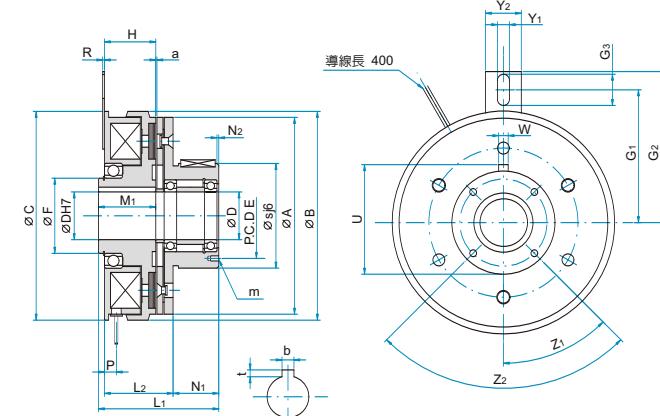
PeeiMoger
離合器

軸承式軸承導座型
Bearing Guide Seat Type

C-□□□-R04-□□

轉矩代碼
Torque Code

孔徑
Aperture



特性 / Characteristics

轉矩代碼 Torque Code	動轉矩 Dynamic Torque(kgfm)	靜轉矩 Static Torque(kgfm)	功率 Power (W/20°C)	電流 Current (A/20°C)	電壓 Voltage DC-V	最高轉速 Highest RPM (r.p.m.)	重量 Weight (kgf)
S50	0.5	0.55	11	0.46	24V	8000	0.70
M10	1.0	1.1	15	0.63	24V	6000	1.23
M20	2.0	2.2	20	0.83	24V	5000	2.18
M40	4.0	4.5	25	1.04	24V	4000	3.93
M80	8.0	9	35	1.46	24V	3000	7.10

安裝尺寸 (mm) / Installation Size (mm)

轉矩代碼 Torque Code	A	B	C	E	F	G1	G2	G3	H	L1	L2	M	N1	N2	P	R	S	U	W	Y1	Y2	a	m	Z1	Z2	ØD	b	t
S50	63	67.5	67.5	33	20	41.5	49.5	7	24	55	31.5	27	20.5	2	7.5	2	38	39.5	4	5	14	3-M4X0.7 深4	60°	3-120°	12	4	1.8	
M10	80	85	85	37	25	57.5	65	9	26.5	64.5	35.5	29.5	26	2	8	2	45	47	5	6	16	3-M4X0.7 深6	60°	3-120°	15	5	2.3	
M20	100	106	106	47	30	62.5	70	10	30	75	41.5	34	30	3	9	2	55	57	5	7	16	4-M4X0.7 深8	45°	4-90°	20	5	2.3	
M40	125	133	133	54	40	77.5	85	10	33.5	90.5	46.5	37.5	40	2	9	2	64	67	7	7	16	4-M4X0.7 深8	45°	4-90°	25	7	3.3	
M80	160	169	169	64	50	100	112	18	37.5	108.5	54	42	50	3	11.5	3.2	75	78	7	9	25	4-M5X0.8 深8	45°	4-90°	30	7	3.3	



BRAKE

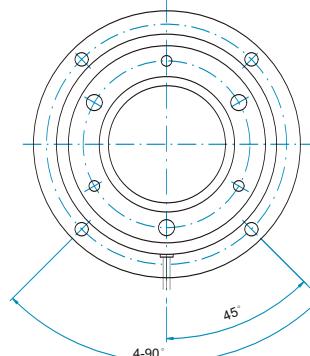
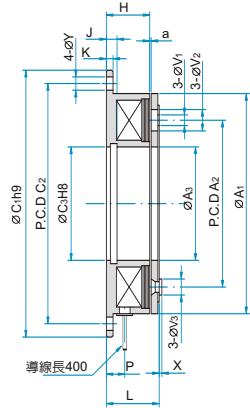


法蘭式無導座型 Flange Guideless Seat Type

B-□□□-F01

轉矩代碼
Torque Code

轉矩代碼
Torque Code



特性 / Characteristics

轉矩代碼 Torque Code	動轉矩 Dynamic Torque(kgfm)	靜轉矩 Static Torque(kgfm)	功率 Power (w/20°C)	電流 Current (A/20°C)	電壓 Voltage DC-V	最高轉速 Highest RPM (r.p.m.)	重量 Weight (kgf)
S24	0.24	0.27	10	0.42	24V	10000	0.2
S50	0.5	0.55	11	0.46	24V	8000	0.28
M10	1.0	1.1	15	0.63	24V	6000	0.50
M20	2.0	2.2	20	0.83	24V	5000	0.91
M40	4.0	4.5	25	1.04	24V	4000	1.68
M80	8.0	9	35	1.46	24V	3000	3.15
T16	16	17.5	45	1.88	24V	2500	5.90

安裝尺寸 (mm) / Installation Size (mm)

轉矩代碼 Torque Code	A1	A2	A3	C1	C2	C3	H	J	K	L	P	V1	V2	V3	X	Y	a
S24	50	38	26	65	58	26	22	3.2	2	25	8	3.1	6.5	5	1	4.5	0.2 (+0.05 (-0.05)
S50	63	46	34.5	80	72	35	18	3.6	2	22	7.5	3.1	6.3	6	1	5	
M10	80	60	41.5	100	90	42	20	4.3	2.5	25	8	4.1	8	6.2	1.2	6	
M20	100	76	51.5	125	112	52	22	5	3	28	9	5.1	11	8	1.5	7	
M40	125	95	61.5	150	137	62	24	5.5	3.5	31	9	6.2	12	10	1.8	7	
M80	160	120	79.5	190	175	80	26	6.1	4	35.5	11.5	8.2	15	13	2.2	9.5	
T16	200	158	99.5	230	215	100	30	7	5	41.5	13	10.2	20	17.5	4	9.5	0.5 (+0.0 (-0.0)



BRAKE

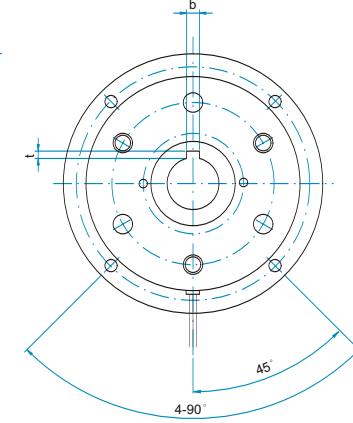
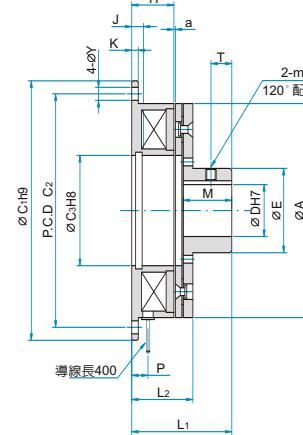


法蘭式正裝導座型 Flange Guide Seat Type

B-□□□-F02-□□

轉矩代碼
Torque Code

轉矩代碼
Torque Code



特性 / Characteristics

轉矩代碼 Torque Code	動轉矩 Dynamic Torque(kgfm)	靜轉矩 Static Torque(kgfm)	功率 Power (w/20°C)	電流 Current (A/20°C)	電壓 Voltage DC-V	最高轉速 Highest RPM (r.p.m.)	重量 Weight (kgf)
S24	0.24	0.27	10	0.42	24V	10000	0.23
S50	0.5	0.55	11	0.46	24V	8000	0.32
M10	1.0	1.1	15	0.63	24V	6000	0.58
M20	2.0	2.2	20	0.83	24V	5000	1.07
M40	4.0	4.5	25	1.04	24V	4000	1.97
M80	8.0	9	35	1.46	24V	3000	3.45
T16	16	17.5	45	1.88	24V	2500	7.10

安裝尺寸 (mm) / Installation Size (mm)

轉矩代碼 Torque Code	A	C1	C2	C3	E	H	J	K	L1	L2	M	P	T	Y	a	m	øD	b	t			
S24	50	65	58	26	27	22	3.2	2	37	28	12	8	5	4.5	0.2 (^{+0.05} / _{-0.05})		10	15	4	5	1.8	2
S50	63	80	72	35	26	18	3.6	2	37	25.5	15	7.5	6	5		M4X0.7	12	15	4	5	1.8	2
M10	80	100	90	42	32	20	4.3	2.5	45	29	20	8	8	6		M5X0.8	15	20	5	5	2.3	2
M20	100	125	112	52	42	22	5	3	53	33.5	25	9	10	7	0.3 (^{+0.05} / _{-0.10})		20	25	5	7	2.3	3
M40	125	150	137	62	49	24	5.5	3.5	61	37	30	9	12	7		M6X1.0	25	30	7	7	3.3	3
M80	160	190	175	80	65	26	6.1	4	73.5	42.5	38	11.5	15	9.5	0.5 (^{+0.2} / _{-0.2})	M8X1.25	30	40	7	10	3.3	3
T16	200	230	215	100	83	30	7	5	86.5	50.5	45	13	18	9.5		M8X1.25	40	50	10	12	3.3	3



BRAKE

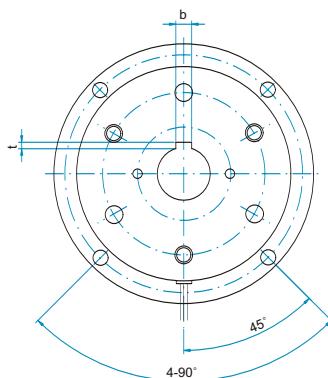
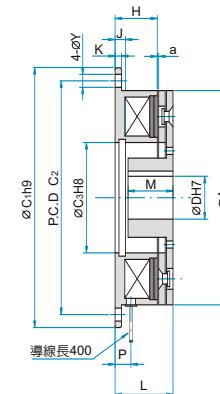
PeeiMoger
制動器

法蘭式反裝導座型
Flange Type Reverse Mounted Guide Seat Type

B-□□□-F03-□□

轉矩代碼
Torque Code

孔徑
Aperture



特性 / Characteristics							
轉矩代碼 Torque Code	動轉矩 Dynamic Torque(kgfm)	靜轉矩 Static Torque(kgfm)	功率 Power (W/20°C)	電流 Current (A/20°C)	電壓 Voltage DC-V	最高轉速 Highest RPM (r.p.m)	重量 Weight (kgf)
S24	0.24	0.27	10	0.42	24V	10000	0.23
S50	0.5	0.55	11	0.46	24V	8000	0.28
M10	1.0	1.1	15	0.63	24V	6000	0.50
M20	2.0	2.2	20	0.83	24V	5000	0.91
M40	4.0	4.5	25	1.04	24V	4000	1.68
M80	8.0	9	35	1.46	24V	3000	3.15
T16	16	17.5	45	1.88	24V	2500	5.90

安裝尺寸 (mm) / Installation Size (mm)											
轉矩代碼 Torque Code	A1	C1	C2	C3	H	J	K	L	M	P	Y
S24	50	65	58	26	22	3.2	2	28	12	8	4.5
S50	63	80	72	35	18	3.6	2	25.5	15	7.5	5
M10	80	100	90	42	20	4.3	2.5	29	20	8	6
M20	100	125	112	52	22	5	3	33.5	25	9	7
M40	125	150	137	62	24	5.5	3.5	37	30	9	7
M80	160	190	175	80	26	6.1	4	42.5	38	11.5	9.5
T16	200	230	215	100	30	7	5	50.5	45	13	9.5



Clutch And Brake In One

小型離合制動器組合
Mini Clutch and Brake in One

S-S24-A26-1

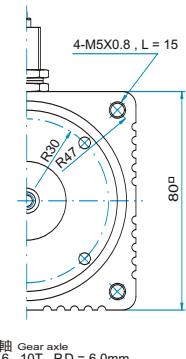
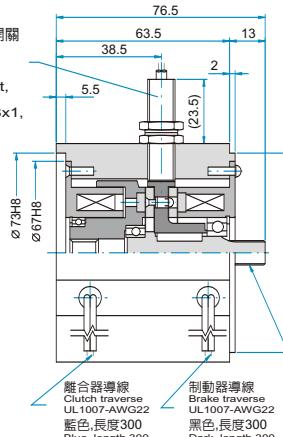


選購品,近接開關
M8X1

感應距離0.5

Procurement,
adjacent
to switch M8x1,

induction
distance 0.5



規格 Specifications	離合器 Clutch	制動器 Brake	規格 Specifications	離合器 Clutch	制動器 Brake
勵磁電壓 DC (V) Field Voltage	24		轉矩建立時間 (msec) Torque Setup Time	20	20
靜摩擦轉矩 (kgf·cm) Static Friction Torque	17	17	釋放時間 (msec) Discharging Time	25	25
動摩擦轉矩 (kgf·cm) Dynamic Friction Torque	17	17	動作頻度 (回/分鐘) Movement Frequency (round/min)	100	100
功 率 (W) Power	10	10	導 線 (AWG22,L=300) Traverse	藍色 Blue	黑色 Dark
絕緣等級 Insulation Grade	E	E	來令片 Lining Plate	非石綿半金屬系 Non-asbestos semi-ferrous system	
吸引時間 (msec) Attraction Time	15	15			

小型離合制動器組合
Mini Clutch and Brake in One

S-S50-A26-1

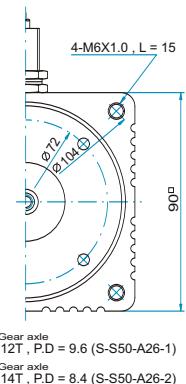
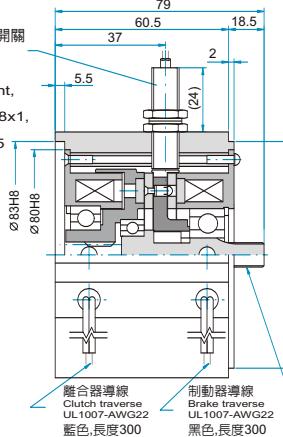


選購品,近接開關
M8X1

感應距離0.5

Procurement,
adjacent
to switch M8x1,

induction
distance 0.5



規格 Specifications	離合器 Clutch	制動器 Brake	規格 Specifications	離合器 Clutch	制動器 Brake
勵磁電壓 DC(V) Field Voltage	24		轉矩建立時間 (msec) Torque Setup Time	20	20
靜摩擦轉矩 (kgf·cm) Static Friction Torque	38	38	釋放時間 (msec) Discharging Time	25	25
動摩擦轉矩 (kgf·cm) Dynamic Friction Torque	35	35	動作頻度 (回/分鐘) Movement Frequency (round/min)	100	100
功 率 (W) Power	11	11	導 線 (AWG22,L=300) Traverse	藍色 Blue	黑色 Dark
絕緣等級 Insulation Grade	E	E	來令片 Lining Plate	非石綿半金屬系 Non-asbestos semi-ferrous system	
吸引時間 (msec) Attraction Time	15	15			



Clutch and Brake in One

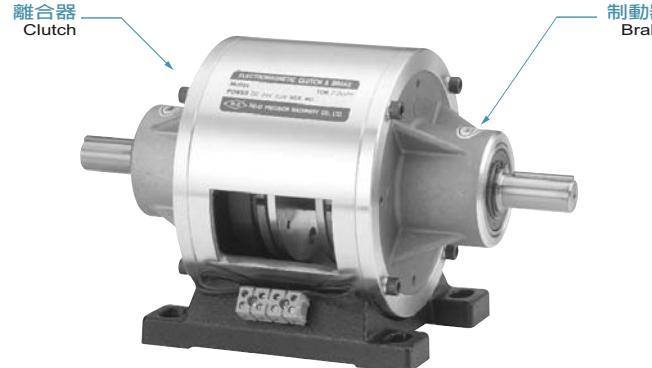


PeeiMoger
離合器制動器組合

單離合制動器雙軸型
Single Clutch with Two Bearings

S-□ □ -A21

轉矩代碼
Torque Code



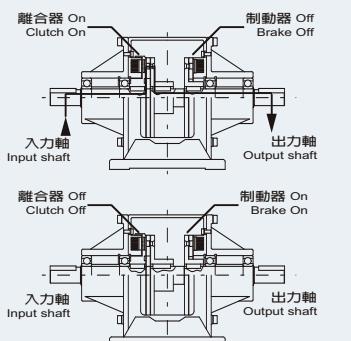
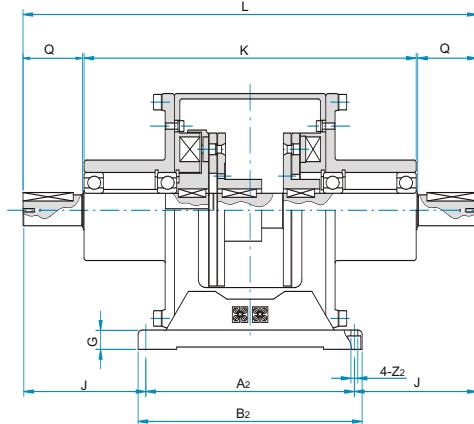
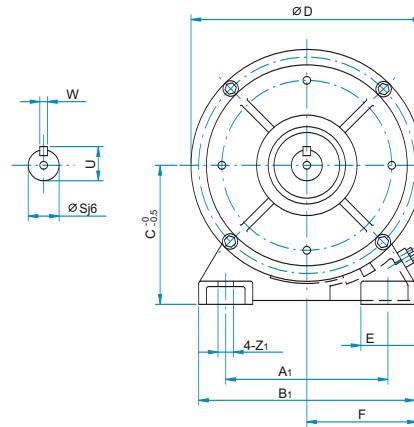
Clutch and Brake in One



PeeiMoger
離合器制動器組合

-A21

轉矩代碼
Torque Code



- 離合器與制動器的組合單元。
Assembly Unit of Clutch and Brake.
- 鋁合金外殼，防滴型結構，滾珠軸承支撐。
Outer shell made of aluminum alloy; structure designed to prevent dripping and supported by rolling bearing.
- 雙軸型，入力軸與出力軸分離。
Two axial, split input bearing and output bearing.
- 臥式固定方式，組合安裝容易簡便。
Fixed horizontal type, easy for assembly and simple for installation.
- 適合與變速皮帶組合(APH型)搭配運用。
Suitable for use in conjunction with transmission belt assembly (APH type).
- 保養維護方便。
Easy maintenance.

型號 Model	轉矩 Torque (kgf m)	電壓 Voltage DC-V	線圈 Coil			保護系数 Protective Factor	最高回轉數 Maximum Number of Revolutions(r/min)
			容量(W) Capacity(W)	電流(A) Current(A)	電阻(Ω) Resistance(Ω)		
S-S50-A21	0.50	24	11	0.46	52	TNR9G820K	8000
S-M10-A21	1.0	24	15	0.63	38	TNR9G820K	6000
S-M20-A21	2.0	24	20	0.83	29	TNR9G820K	5000
S-M40-A21	4.0	24	25	1.04	23	TNR9G820K	4000
S-M80-A21	8.0	24	35	1.46	16	TNR9G820K	3000
S-T16-A21	16	24	45	1.88	13	TNR9G820K	2500

特性 / Characteristics

轉矩代碼 Torque Code	動轉矩 Dynamic Torque(kgfm)	靜轉矩 Static Torque(kgfm)	功率 Power (w/20°C)	電壓 Voltage DC-V	使用馬力 Horsepower	重量 Weight (kgf)
S50	0.5	0.55	11	24V	200W	2.6
M10	1.0	1.1	15	24V	400W	4.5
M20	2.0	2.2	20	24V	750W	7.7
M40	4.0	4.5	25	24V	1.5KW	14
M80	8.0	9	35	24V	2.2KW	27
T16	16	17.5	45	24V	5.6KW	49

安裝尺寸 (mm) / Installation Size (mm)

轉矩代碼 Torque Code	A1	A2	B1	B2	C	D	E	F	G	J	K	L	Z1	Z2	Q	S	U	W
S50	65	90	90	105	65	100	28	60	10	48.5	132	187	13.5	6.5	25	11	12.5	4
M10	80	110	110	130	80	125	32	68	12	63	171	236	15	9	30	14	16	5
M20	105	135	140	160	90	150	35	81	15	80	209	295	20	11	40	19	21	5
M40	135	160	175	185	112	190	42	97	15	108	270	376	24	11	50	24	27	7
M80	155	200	200	230	132	230	45	110	18	145	362	490	28	14	60	28	31	7
T16	195	240	240	270	160	290	47	129	20	188	448	616	28	14	80	38	41	10



Clutch and Brake in One



離合器制動器組合
Clutch and Brake
in One

單離合制動器單軸型
Single Clutch Brake, Single Axial Type

S-□□□-A22

轉矩代碼
Torque Code



- 離合器與制動器的組合單元。
Assembly Unit of Clutch and Brake

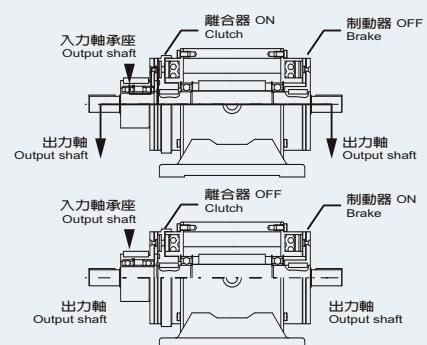
● 鋁合金本體，開放式結構。
Aluminum body with open-ended structure

● 單軸雙凸端結構，由離合器軸承座入力，兩軸端為出力側。
Single axial structure with dual convex end where input is conducted through the clutch bearing seat while output is discharged from the two convex ends.

● 臥式固定方式，組合安裝容易簡便。
Fixed horizontal type, easy for assembly and simple for installation.

● 離合器軸承座剛性高，適合搭配齒輪，鏈輪，等傳動件。
Rigidity of the clutch bearing seat is high, suitable for use with driving components such as gear, chain wheel.

● 保養維護方便
Easy maintenance



單離合制動器單軸型 / Single Clutch Brake, Uniaxial Type

型號 Model	轉矩 Torque (kgf.m)	電壓 Voltage DC-V	線圈 Coil			保護素子 Protective Prime Factor	最高回轉數 Maximum Number of Revolutions(r/min)
			容量(W) Capacity(W)	電流(A) Current(A)	電阻(Ω) Resistance(Ω)		
S-S50-A22	0.50	24	11	0.46	52	TNR9G820K	8000
S-M10-A22	1.0	24	15	0.63	38	TNR9G820K	6000
S-M20-A22	2.0	24	20	0.83	29	TNR9G820K	5000
S-M40-A22	4.0	24	25	1.04	23	TNR9G820K	4000
S-M80-A22	8.0	24	35	1.46	16	TNR9G820K	3000
S-T16-A22	16	24	45	1.88	13	TNR9G820K	2500



Clutch and Brake in One



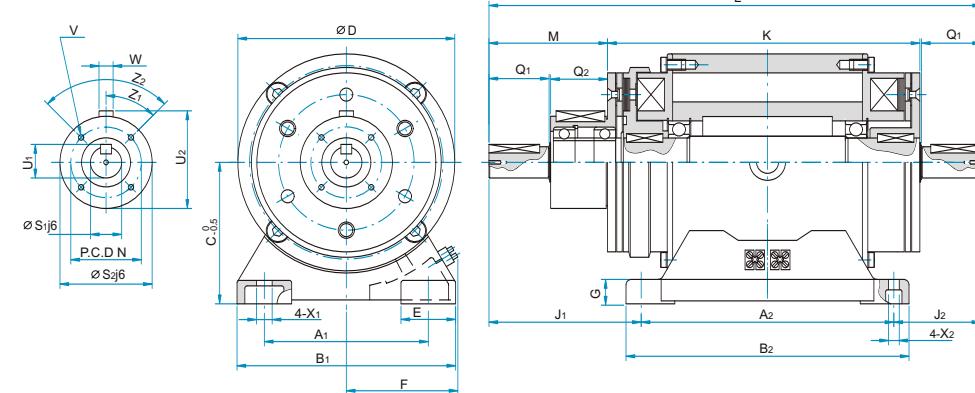
離合器制動器組合
Clutch and Brake
in One

單離合制動器單軸型

Single Clutch Brake, Single Axial Type

S-□□□-A22

轉矩代碼
Torque Code



特性 / Characteristics

轉矩代碼 Torque Code	動轉矩 Dynamic Torque(kgf.m)	靜轉矩 Static Torque(kgf.m)	功率 Power (W/20°C)	電壓 Voltage DC-V	使用馬力 Horsepower	重量 Weight (kgf)
S50	0.5	0.55	11	24V	200W	1.50
M10	1.0	1.1	15	24V	400W	2.70
M20	2.0	2.2	20	24V	750W	5.50
M40	4.0	4.5	25	24V	1.5KW	9.60
M80	8.0	9	35	24V	2.2KW	18.5
T16	16	17.5	45	24V	5.6KW	35.0

安裝尺寸 (mm) / Installation Size (mm)

轉矩代碼 Torque Code	A1	A2	B1	B2	C	D	E	F	G	J1	J2	K	L	M	N	V	X1	X2	Z1	Z2	S1	S2	Q1	Q2	U1	U2	W
S50	52.5	75	80	90	55	80	27.5	57	10	65.5	40.5	105.5	181	46.5	33	3-M4X0.7 深4	13.5	6.5	60°	3-120°	11	38	25	20.5	12.5	39.5	4
M10	65	90	90	105	65	100	28	60	10	78.5	48.5	126	217	57	37	3-M4X0.7 深6	13.5	6.5	60°	3-120°	14	45	30	26	16	47	5
M20	80	110	110	130	80	125	32	68	12	98	62	154	270	72	47	4-M4X0.7 深8	15	9	45°	4-90°	19	55	40	30	21	57	5
M40	105	135	140	160	90	150	35	81	15	121	74	184	330	92	54	4-M4X0.7 深8	20	11	45°	4-90°	24	64	50	40	27	67	7
M80	135	160	175	185	112	190	42	97	15	149	90	221	399	113	64	4-M5X0.8 深8	24	11	45°	4-90°	28	75	60	50	31	78	7
T16	155	200	200	230	132	230	45	110	18	187	117	276	504	142	79	4-M6X1 深12	28	14	45°	4-90°	38	90	80	60	41	93	10



Clutch and Brake in One



離合器制動器組合
Clutch and Brake Assembly

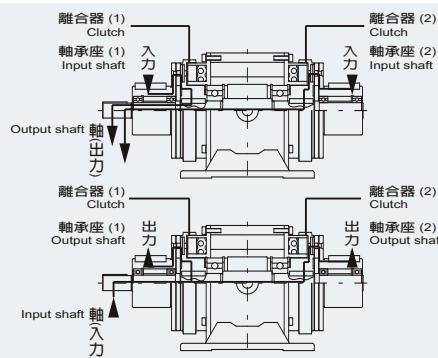
雙離合器單軸型
Dual Clutch, Single Axial Type

S-□ □ -A23

轉矩代碼
Torque Code



- 雙離合器的組合單元。
Assembly Unit of Dual Clutch
- 鋁合金本體，開放式結構。
Aluminum body with open-ended structure
- 單軸雙凸端結構
Uniaxial structure with dual convex end structure
多變化的傳動方式。
Multi-variable driving methods
- 1)兩離合器的軸承座為入力端，由軸端出力。
1)Input end at the bearing seat of the two clutches and the output at the axis end
- 2)軸端入力，兩離合器的軸承座為出力。
2)Input at the axis end with output at the bearing seat of the two clutches.
- 適合2段變速組合，正反轉組合，動力傳達分配等
Suitable for buckle segment transmission assembly, reciprocal assembly, and delivery and distribution of moving force.



雙離合器單軸型 / Dual Clutch, Uniaxial Type

型號 Model	轉矩 Torque (kgf.m)	電壓 Voltage DC-V	線圈 Coil			保護素子 Protective Prime Factor	最高回轉數 Maximum Number of Revolutions(r/min)
			容量(W) Capacity(W)	電流(A) Current(A)	電阻(Ω) Resistance(Ω)		
S-S50-A23	0.50	24	11	0.46	52	TNR9G820K	8000
S-M10-A23	1.0	24	15	0.63	38	TNR9G820K	6000
S-M20-A23	2.0	24	20	0.83	29	TNR9G820K	5000
S-M40-A23	4.0	24	25	1.04	23	TNR9G820K	4000
S-M80-A23	8.0	24	35	1.46	16	TNR9G820K	3000
S-T16-A23	16	24	45	1.88	13	TNR9G820K	2500



Clutch and Brake in One

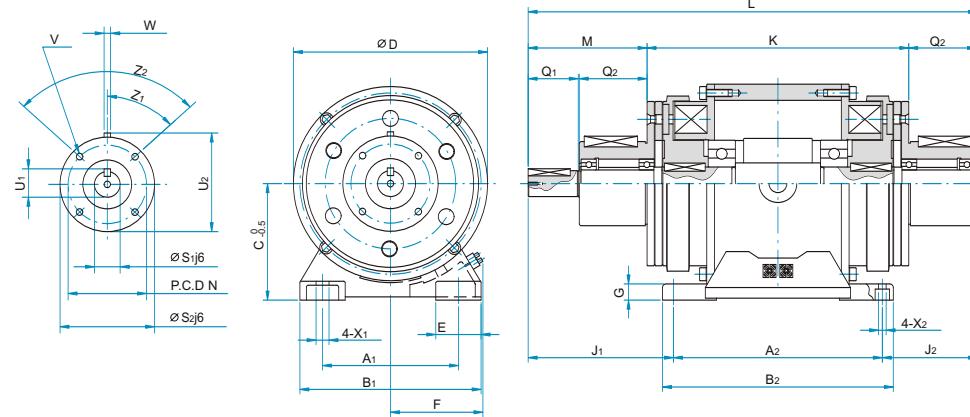


離合器制動器組合
Clutch and Brake Assembly

雙離合器單軸型
Dual Clutch, Single Axial Type

S-□ □ -A23

轉矩代碼
Torque Code



特性 / Characteristics									
轉矩代碼 Torque Code	動轉矩 Dynamic Torque(kgf.m)	靜轉矩 Static Torque(kgf.m)	功率 Power (W/20°C)	電壓 Voltage DC-V	使用馬力 Horsepower	重量 Weight (kgf)			
S50	0.5	0.55	11	24V	200W	1.70			
M10	1.0	1.1	15	24V	400W	3.10			
M20	2.0	2.2	20	24V	750W	6.50			
M40	4.0	4.5	25	24V	1.5KW	10.50			
M80	8.0	9	35	24V	2.2KW	21.0			
T16	16	17.5	45	24V	5.6KW	38.5			

安裝尺寸 (mm) / Installation Size (mm)																												
轉矩代碼 Torque Code	A1	A2	B1	B2	C	D	E	F	G	J1	J2	K	L	M	N	V	X1	X2	Z1	Z2	S1	S2	Q1	Q2	U1	U2	W	
S50	52.5	75	80	90	55	80	27.5	57	10	65.5	40.5	111.5	181	46.5	33	3-M4X0.7	深4	13.5	6.5	60°	3-120°	11	38	25	20.5	12.5	39.5	4
M10	65	90	90	105	65	100	28	60	10	78.5	48.5	133	217	57	37	3-M4X0.7	深6	13.5	6.5	60°	3-120°	14	45	30	25	16	47	5
M20	80	110	110	130	80	125	32	68	12	98	62	162	266	72	47	4-M4X0.7	深8	15	9	45°	4-90°	19	55	40	30	21	57	5
M40	105	135	140	160	90	150	35	81	15	121	74	193	327	92	54	4-M4X0.7	深8	20	11	45°	4-90°	24	64	50	40	27	67	7
M80	135	160	175	185	112	190	42	97	15	149	90	233	397	113	64	4-M5X0.8	深8	24	11	45°	4-90°	28	75	60	50	31	78	7
T16	155	200	200	230	132	230	45	110	18	187	105	290	492	142	79	4-M6X1	深12	28	14	45°	4-90°	38	90	80	60	41	93	10



Clutch and Brake in One



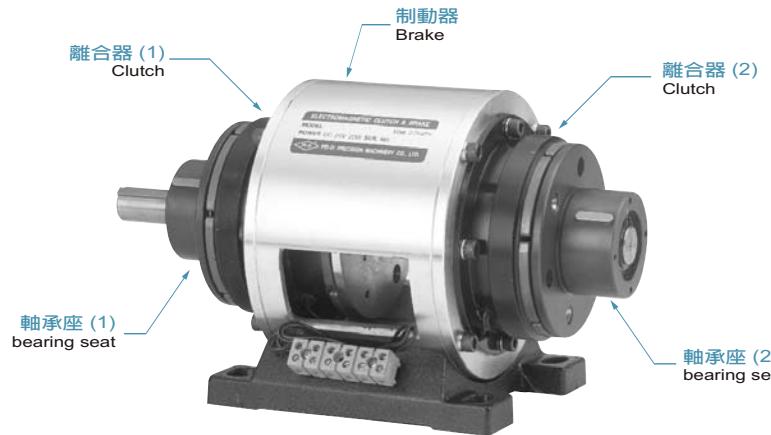
離合器制動器組合
Clutch and Brake Assembly

雙離合單制動器單軸型

Dual Clutch Single Brake, Single Axial Type

S-□□□-A31

轉矩代碼
Torque Code



雙離合器單制動器的組合單元

Assembly element of dual clutch single brake

鋁合金本體，開放式結構。

Aluminum body with open-ended structure

單軸，單凸端結構。

Single axis, single convex end structure

兩離合器的軸承座為入力端，由軸端出力。

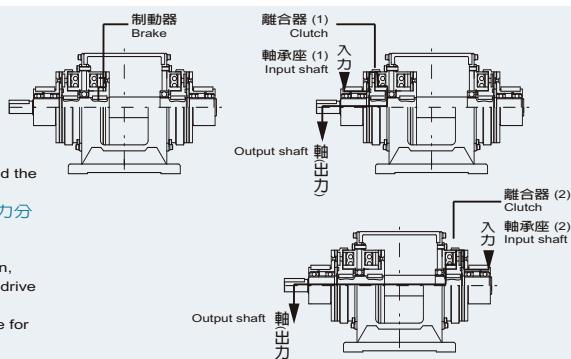
Input end at the bearing seat of the two clutches and the output at the axis end

適合2段變速定位停止，高頻度正逆轉，動力分配及精確定位的傳動組合。

Suitable for assemblies of 2-stage transmission positioning stop, high-frequency regular reverse turn, moving force distribution, and precision positioning drive

臥式固定方式，組合安裝容易簡便。

Fixed horizontal type, easy for assembly and simple for installation.



雙離合單制動器單軸型 / Dual Clutch Single Brake, Unaxial Type

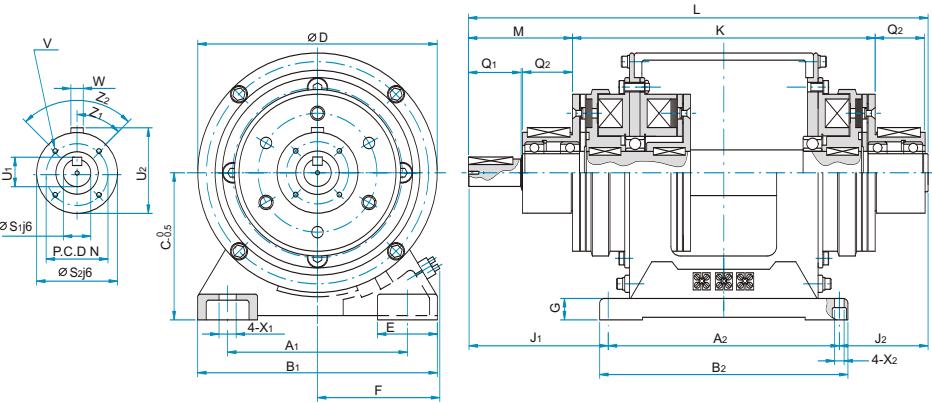
型號 Model	轉矩 Torque (kgf.m)	電壓 Voltage DC-V	線圈 Coil			保護素子 Protective Prime Factor	最高回轉數 Maximum Number of Revolutions(r/min)
			容量 Capacity(W)	電流(A) Current(A)	電阻(Ω) Resistance(Ω)		
S-S50-A31	0.50	24	11	0.46	52	TNR9G820K	8000
S-M10-A31	1.0	24	15	0.63	38	TNR9G820K	6000
S-M20-A31	2.0	24	20	0.83	29	TNR9G820K	5000
S-M40-A31	4.0	24	25	1.04	23	TNR9G820K	4000
S-M80-A31	8.0	24	35	1.46	16	TNR9G820K	3000
S-T16-A31	16	24	45	1.88	13	TNR9G820K	2500



Clutch and Brake in One



離合器制動器組合
Clutch and Brake Assembly



特性 / Characteristics

轉矩代碼 Torque Code	動轉矩 Dynamic Torque(kgfm)	靜轉矩 Static Torque(kgfm)	功率 Power (W/20°C)	電壓 Voltage DC-V	使用馬力 Horsepower	重量 Weight (kgf)
S50	0.5	0.55	11	24V	200W	4
M10	1.0	1.1	15	24V	400W	6
M20	2.0	2.2	20	24V	750W	9
M40	4.0	4.5	25	24V	1.5KW	17
M80	8.0	9	35	24V	2.2KW	29
T16	16	17.5	45	24V	5.6KW	58

安裝尺寸 (mm) / Installation Size (mm)

轉矩代碼 Torque Code	A1	A2	B1	B2	C	D	E	F	G	J1	J2	K	L	M	N	V	X1	X2	Z1	Z2	S1	S2	Q1	Q2	U1	U2	W
S50	65	90	90	105	65	100	28	60	10	73	48	144	213	47	33	3-M4X0.7 深4	13.5	6.5	60°	3-120°	11	38	25	20.5	12.5	39.5	4
M10	80	110	110	130	80	125	32	68	12	83	53	162	246	57	37	3-M4X0.7 深6	15	9	60°	3-120°	14	45	30	25	16	47	5
M20	105	135	140	160	90	150	35	81	15	99	59	191	294	72	47	4-M4X0.7 深8	20	11	45°	4-90°	19	55	40	30	21	57	5
M40	135	160	175	185	112	190	42	97	15	124	74	223	358	93	54	4-M4X0.7 深8	24	11	45°	4-90°	24	64	50	40	27	67	7
M80	155	200	200	230	132	230	45	110	18	150	90	272	440	114	64	4-M5X0.8 深8	28	14	45°	4-90°	28	75	60	50	31	78	7
T16	195	240	240	270	160	290	47	129	20	196	114	348	553	142	79	4-M6X1 深12	28	14	45°	4-90°	38	90	80	60	41	93	10



Clutch and Brake in One

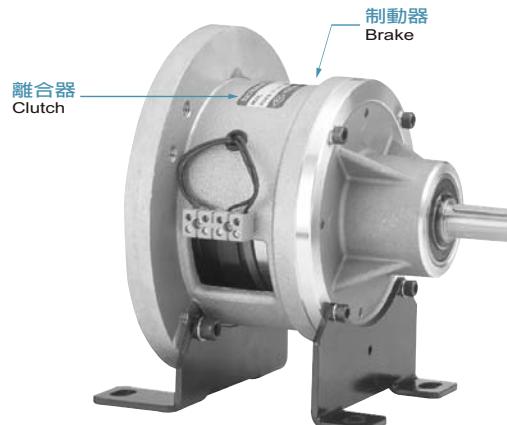


PeeiMoger
離合器制動器組合

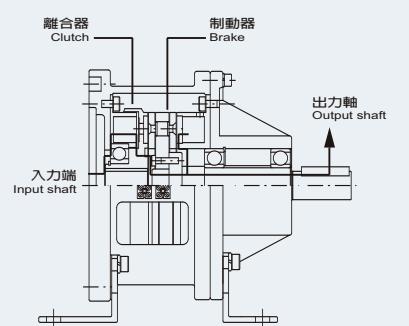
馬達直結單離合制動臥式型
Direct Motor Mounted Horizontal Single Clutch Brake

S-□ □ □ -K25

轉矩代碼
Torque Code



- 馬達直結，離合器與制動器的組合單元。
Assembly units of direct motor mounted, clutch and brake
- 離合器，制動器部份鋁合金外殼，防滴型結構。
Outer shell of clutch and brake is made of aluminum alloy; structure designed to prevent dripping.
- 配合IEC國際規格，結構輕薄短小安裝容易不佔空間。
Compact structure is light, thin and short, comply with IEC international requirements.
- 臥式底座固定方式。
Fixed horizontal base seat
- 保養維護方便。
Easy maintenance.



馬達直結單離合制動臥式型 / Direct Horizontal Single Clutch Brake

型 號 Model	轉 矩 Torque (kgf.m)	電 壓 Voltage DC-V	線 圈 Coil			保 護 素 子 Protective Prime Factor	最 高 回 轉 數 Maximum Number of Revolutions(r/min)
			容 量 Capacity(W)	電 流 Current(A)	電 阻 Resistance(Ω)		
S-S50-K25	0.50	24	11	0.46	52	TNR9G820K	8000
S-M10-K25	1.0	24	15	0.63	38	TNR9G820K	6000
S-M20-K25	2.0	24	20	0.83	29	TNR9G820K	5000
S-M40-K25	4.0	24	25	1.04	23	TNR9G820K	4000
S-M80-K25	8.0	24	35	1.46	16	TNR9G820K	3000

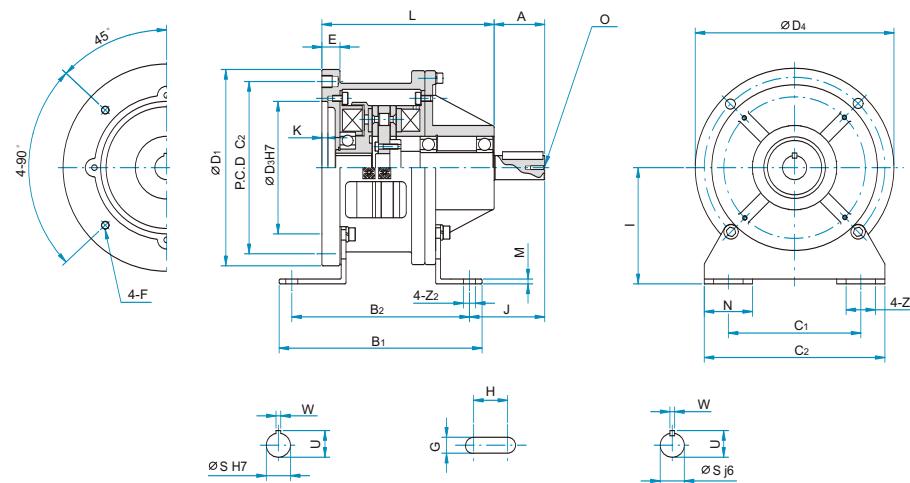


Clutch and Brake in One



PeeiMoger
離合器制動器組合

馬達直結單離合制動臥式型
Direct Motor Mounted Horizontal Single Clutch Brake



特性 / Characteristics							
轉矩代碼 Torque Code	動轉矩 Dynamic Torque(kgf.m)	靜轉矩 Static Torque(kgf.m)	功率 Power (W/20°C)	電壓 Voltage DC-V	使用馬力 Horsepower	重量 Weight (kgf)	
S50	0.5	0.55	11	24V	200W	2.7	
M10	1.0	1.1	15	24V	400W	3.8	
M20	2.0	2.2	20	24V	750W	6.8	
M40	4.0	4.5	25	24V	1.5KW	10.3	
M80	8.0	9	35	24V	2.2KW	18.8	

轉矩代碼 Torque Code	安裝尺寸 (mm) / Installation Size (mm)																								
	A	B1	B2	C1	C2	D1	D2	D3	D4	E	F	G	H	I	J	K	L	M	N	O	W	S	U	Z1	Z2
S50	26	116	136	65	90	160	130	110	100	14	M8X1.25-4	6.5	7	90	28	4.5	99	4.5	27.5	M4X0.7深8	4	11	12.5	13.5	6.5
M10	34	130	150	80	110	160	130	110	125	14	M8X1.25-4	9	7	90	47	4.5	120	4.5	32.5	M4X0.7深8	5	14	16	15.5	9
M20	44	143	167	105	140	200	165	130	150	17	M10X1.5-4	11	9	110	70	5.5	147	4.5	35	M6X1深11	5	19	21.5	20	11.5
M40	55	160	185	135	175	200	165	130	190	17	M10X1.5-4	11	13	110	97	5.5	174	4.5	42.5	M6X1深11	7	24	27	24.5	11.5
M80	64	200	230	155	200	250	215	180	230	17	M12X1.75-4	14	14	140	127	6	214	6	45	M6X1深11	7	28	31	28	14



Clutch and Brake in One

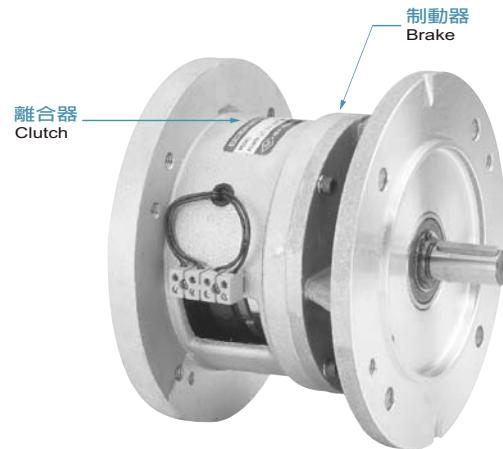


PeeiMoger
離合器制動器組合

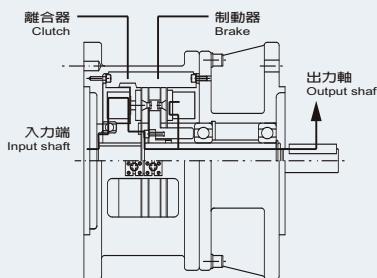
法蘭式馬達直結單離合制動器立式型
Flange Type Direct Motor Mounted Vertical Single Clutch Brake

S-□ □ -K26

轉矩代碼
Torque Code



- 馬達直結，離合器與制動器的組合單元。
Assembly unit of direct motor mounted, clutch and brake
- 離合器，制動器部份鋁合金外殼，防滴型結構。
Outer shell of clutch and brake is made of aluminum alloy; structure designed to prevent dripping.
- 配合IEC國際規格，結構輕薄短小安裝容易不佔空間。
Compact structure is light, thin and short, comply with IEC international requirements.
- 立式法蘭固定方式。
Fixed flange fixed base seat
- 保養維護方便。
Easy maintenance



Clutch and Brake in One



PeeiMoger
離合器制動器組合



特性 / Characteristics

轉矩代碼 Torque Code	動轉矩 Dynamic Torque(kgfm)	靜轉矩 Static Torque(kgfm)	功率 Power (W/20°C)	電壓 Voltage DC-V	使用馬力 Horsepower	重量 Weight (kgf)
S50	0.5	0.55	11	24V	200W	2.8
M10	1.0	1.1	15	24V	400W	4.1
M20	2.0	2.2	20	24V	750W	7.2
M40	4.0	4.5	25	24V	1.5KW	11
M80	8.0	9	35	24V	2.2KW	19.5

安裝尺寸 (mm) / Installation Size (mm)

轉矩代碼 Torque Code	A	B	C	D1	D2	D3	E	F	G	H	L	W	S	U
S50	23	10	3.5	160	130	110	14	4.5	10	M8X1.25	103.5	4	11	12.5
M10	30	10	3.5	160	130	110	14	4.5	10	M8X1.25	122.5	5	14	16
M20	40	12	3.5	200	165	130	17	5.5	12	M10X1.5	141	6	19	21.5
M40	50	12	3.5	200	165	130	17	5.5	12	M10X1.5	167	8	24	27
M80	60	16	4	250	215	180	17	6	14.5	M12X1.75	218	8	28	31



BRAKE

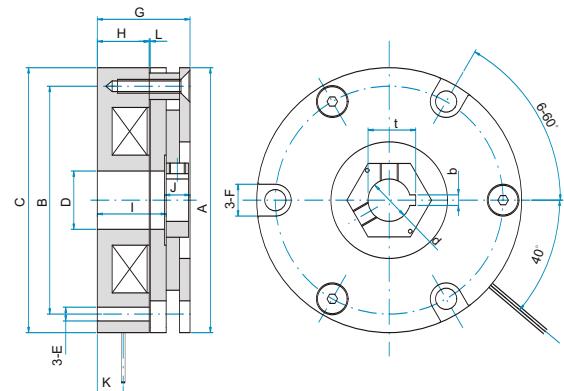
PeeiMoger
制動器

無勵磁乾式負作動電磁制動器
Electromagnetic Spring Loaded Brake

BN-□□□-□□□-□

型號
Model

型式
Type



型號 Model	型式 Type	額定電壓 Voltage DC-V	靜摩擦扭力 Torque in Static Friction		輸入容量 Input Capacity (W)	線圈 Coil		孔徑 Aperture $d^{+0.025}_{-0.01}$	鍵槽尺寸 Key Fillister Size $b^{+0.0125 \times t^{+0.10}}_{-0.0125 \times t^{+0.10}}$
			(Nm)	(kgfm)		電流 Current(A)	電阻 Resistance(Ω)		
S05	SNF-2	24V	0.5	0.05	7	0.292	82.3	8	-
	SNF-5	90V				0.078	1157.1		
S10	SNF-2	24V	1.0	0.1	9	0.375	64	8	-
	SNF-5	90V				0.1	900		
S20	SNF-2	24V	2.0	0.2	13	0.542	44.3	12	4 x 13.8
	SNF-5	90V				0.144	623		
S40	SNF-2	24V	4.0	0.4	15	0.625	38.4	14	5 x 16.3
	SNF-5	90V				0.167	540		
S80	SNF-2	24V	8.0	0.8	18	0.75	32	19	5 x 21.3
	SNF-5	90V				0.2	450		

型號 Model	徑方向 / Diameter Direction						軸方向 / Axis Direction					
	A	B	C	D	E	F	G	H	I	J	K	L
S05	50	44	50.3	10	3.5	3.5	29.55	18.7	21.55	8	9.7	0.1~0.2
S10	63	54	63	22	4.5	9	30.55	20	22.55	8	8.5	0.1~0.2
S20	85	74	85	19	5.5	11	29.65	17.5	22.15	7.5	9	0.1~0.2
S40	97	85	97	22	5.5	11	30.15	18	22.65	7.5	8	0.1~0.2
S80	118	108	118	35	5.5	11	35.7	19.5	26.2	9.5	9.5	0.1~0.2

尺寸單位 : mm



BRAKE

PeeiMoger
制動器

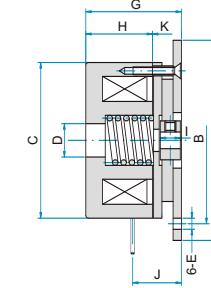
無勵磁乾式負作動(附把手型)電磁制動器
Electromagnetic Spring Loaded Brake

BN-□□□-□□□-□

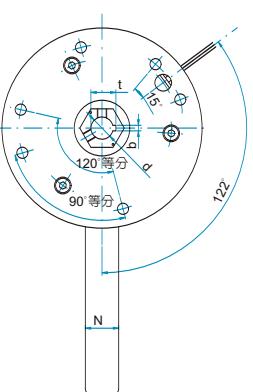
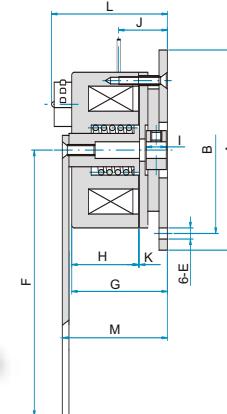
型號
Model

型式
Type

SNF型



SRF型



型號 Model	型式 Type	額定電壓 Voltage DC-V	靜摩擦扭力 Torque in Static Friction		輸入容量 Input Capacity (W)	線圈 Coil		孔徑 Aperture $d^{+0.025}_{-0.01}$	鍵槽尺寸 Key Fillister Size $b^{+0.0125 \times t^{+0.10}}_{-0.0125 \times t^{+0.10}}$
			(Nm)	(kgfm)		電流 Current(A)	電阻 Resistance(Ω)		
S30	SNF-2	24V	4	0.4	12	0.5	48	8	3X9.4
S30	SNF-5	90V	4	0.4	12	0.133	675	8	3X9.4
S30	SRF-2	24V	4.5	0.45	12	0.5	48	8	3X9.4
S30	SRF-5	90V	4.5	0.45	12	0.133	675	8	3X9.4

型號 Model	徑方向 / Diameter Direction						軸方向 / Axis Direction					
	A	B	C	D	E	F	G	H	I	J	K	L
S30	77	68	61	13	5	-	36.55	26	8	20.55	0.1~0.2	-
S30	77	68	61	13	5	-	36.55	26	8	20.55	0.1~0.2	-
S30	77	68	61	-	5	126	36.55	26	8	20.55	0.1~0.2	44.25
S30	77	68	61	-	5	126	36.55	26	8	20.55	0.1~0.2	40.4

尺寸單位 : mm