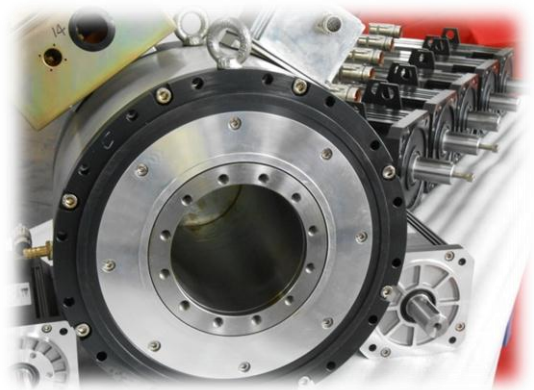




# 嵐天自動化股份有限公司 iMaku Automation System Co., Ltd.

[www.imaku.com.tw](http://www.imaku.com.tw)



- High Precision
- High Speed
- High Reliability
- Timely Response



[www.imaku.com.tw](http://www.imaku.com.tw)

## KUT synchronous Servo Motor



嵐天自動化(股)有限公司  
iMaku Automation System Co., Ltd..

E-mail: [Sales@imaku.com.tw](mailto:Sales@imaku.com.tw)

# Index

Application and Advantages.....	1
Technical Features .....	2
Product Code .....	3
KUT02X .....	5
KUT031 .....	6
KUT032 .....	8
KUT040.....	12
KUT061.....	12
KUT062.....	14
KUT08X.....	16
KUT101.....	18
KUT103.....	18
KUT105 .....	21
KUT107 .....	21
KUT109 .....	24
KUT132 .....	26
KUT134 .....	26
KUT136 .....	29
Connection Method for Terminal Box.....	31
Encoder Wire Connection Method.....	33
Power Wire Connection Method.....	38
Declaration of Conformity.....	41

# Application and Advantages

## Fields of Application

KUT servo motors can be combined with corresponding servo drive to create a mutually coordinated system, which can be widely used in machine tools, textile machines, plastic machines, printing machines, construction machines, port hoisting and transport machines, wood processing machines, plywood production line, industrial robots, automated assembly line, automated warehousing system, metallurgical machinery, radar, and other fields.

## Advantages

Compact construction, high power density

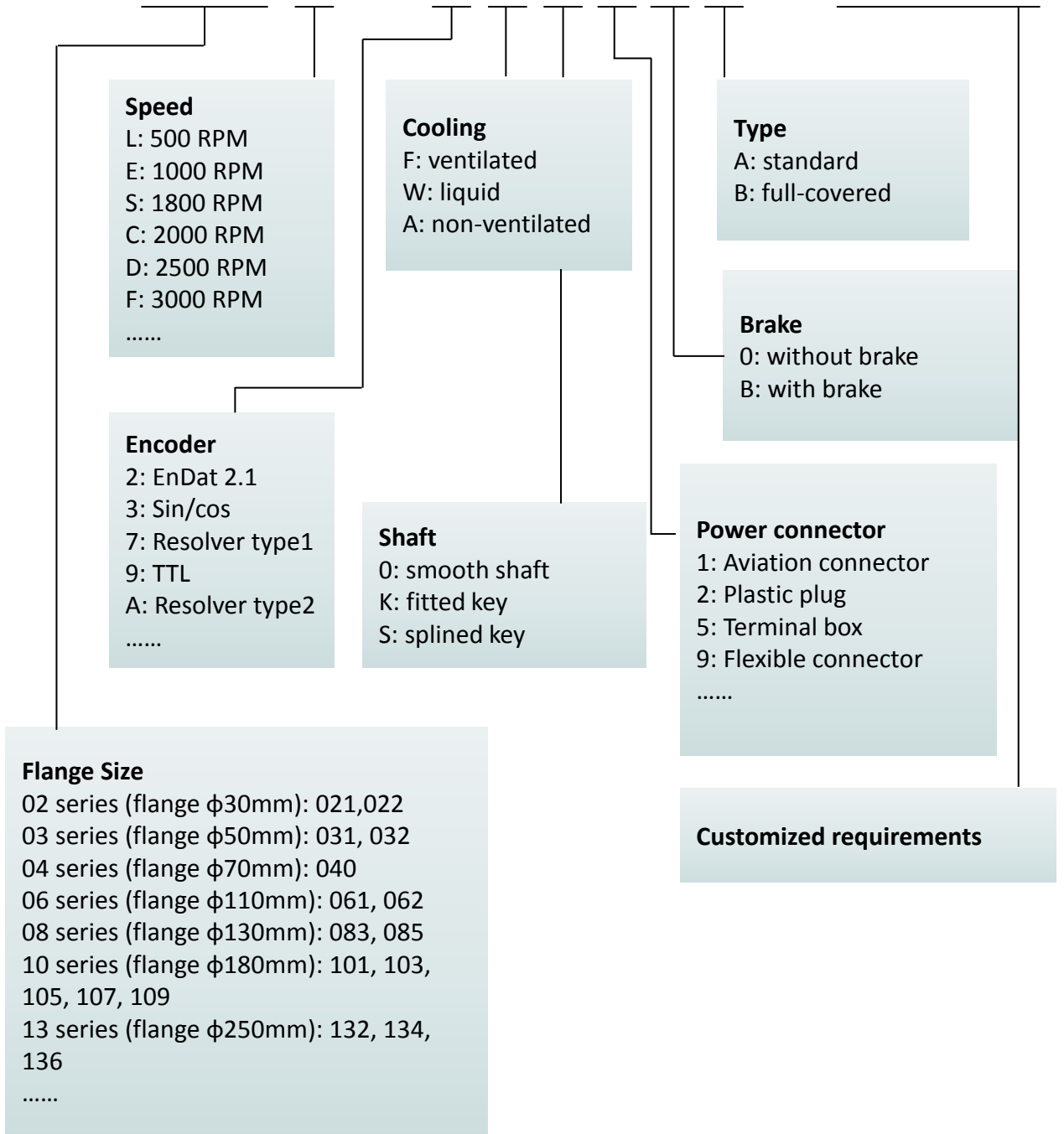
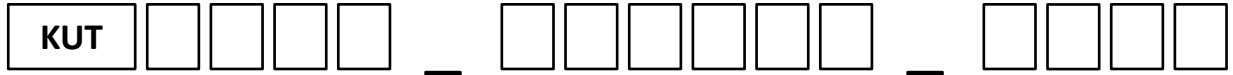
Low inertia and fast response

- Ultra-high intrinsic coercivity rare-earth permanent magnet material with strong resistance to demagnetization
- Constant torque output over almost the entire speed range
- Small torque ripple at low speed, high balance precision, stable performance at high speed
- Low noise and vibration
- Fully sealed design
- Cost effective

## Technical Features

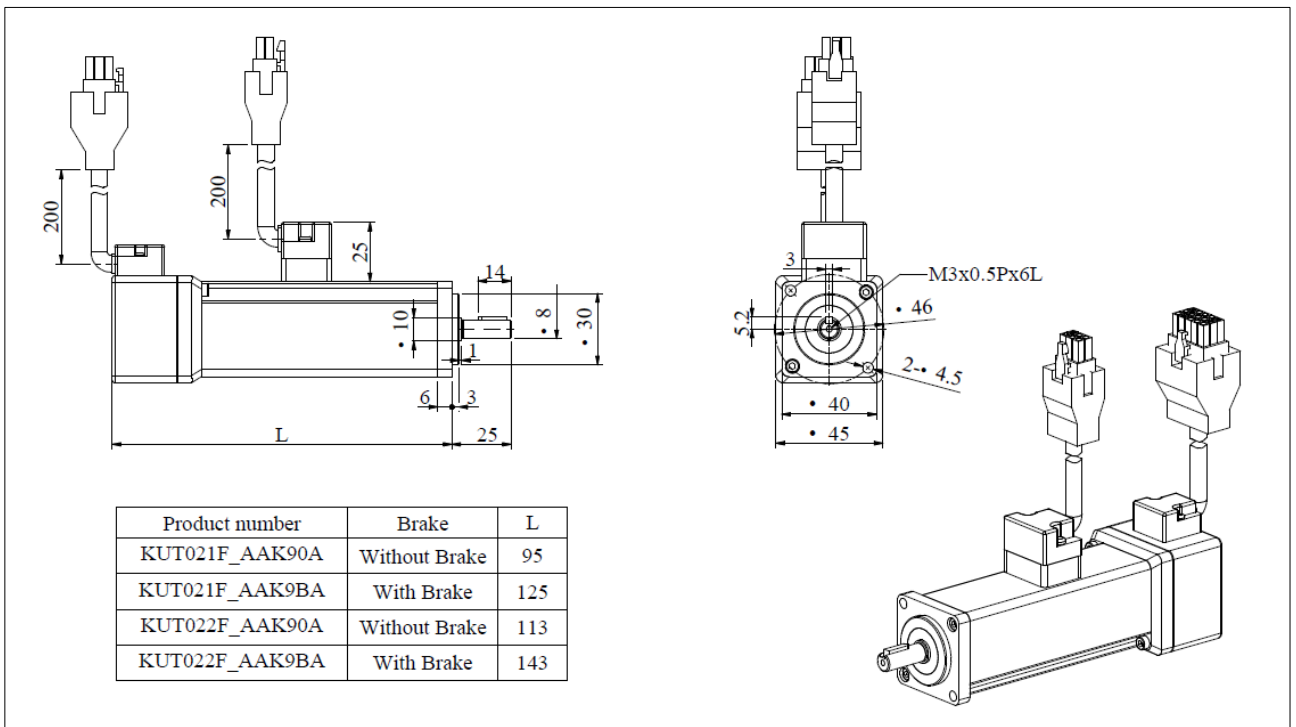
<b>Type of Motor</b>	AC permanent-magnet synchronous servo motor
<b>Magnetic material</b>	Ultra-high intrinsic coercivity rare-earth permanent magnet material
<b>Housing material</b>	Aluminium
<b>Winding material</b>	Copper
<b>Insulation of the stator winding</b>	Temperature class F for a winding temperature of $\Delta T = 100$ K at an ambient temperature of $+40$ °C
<b>Feedback system</b>	<ol style="list-style-type: none"> <li>1. Resolver</li> <li>2. Incremental encoder sin/cos</li> <li>3. Absolute encoder EnDat 2.1</li> <li>4. Incremental encoder TTL</li> </ol>
<b>Temperature protection</b>	KTY84 temperature sensor
<b>Type of construction</b>	IMB
<b>Degree of protection</b>	IP54
<b>Cooling</b>	Non-ventilated, Ventilated
<b>Paint finish</b>	Black Matt paint
<b>Bearing</b>	Double-sealed deep groove ball bearing
<b>Shaft sealing</b>	Drive end with shaft sealing ring
<b>Drive shaft end</b>	Standard: with key and keyway Optional: smooth shaft (no keyway), or customized
<b>Noise</b>	$\leq 85$ dB(A)
<b>Connecting</b>	Connector or terminal box
<b>Optional</b>	Maintenance-free high reliability holding brake, high precision planetary gear reducer or other reducers

# Product Code



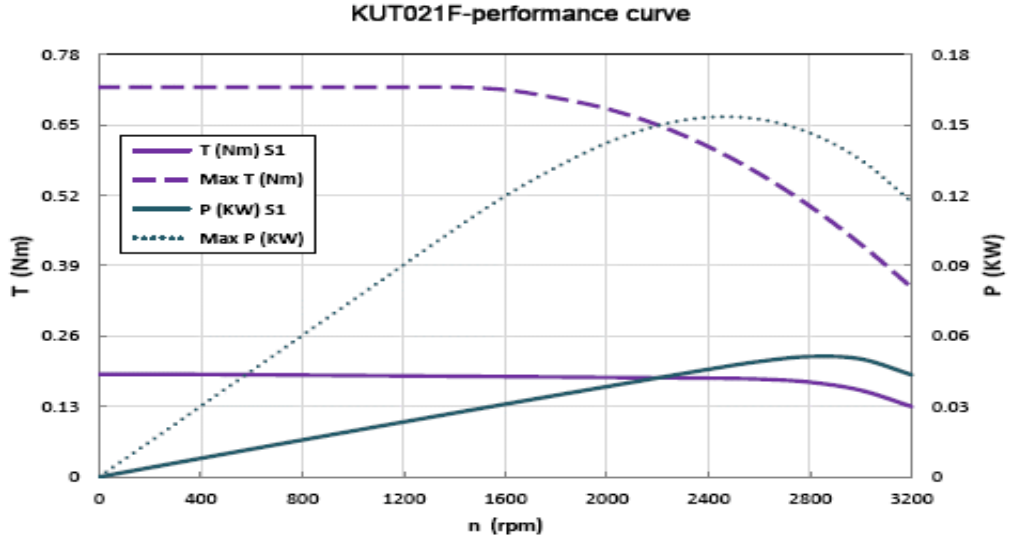
# KUT02X Shaft $\Phi 8$

Technical Data	Code	Unit			021F	022F
<b>Configuration Data</b>						
Rated Speed	$n_N$	rpm			3000	3000
Rated Power	$P_N$	kW			0.05	0.1
Poles	P				8	8
Rated Torque (100K)	$T_N$	Nm			0.16	0.32
Rated Current (100K)	$I_N$	A			2.5	2.5
Static Torque (100K)	$T_0$	Nm			0.19	0.38
Stall Current (100K)	$I_0$	A			3	3
Inertia	J	$10^{-4}\text{kgm}^2$			0.051	0.051
<b>Limiting Data</b>						
Max Speed	$n_{\max}$	Rpm			3200	3200
Max Torque	$T_{\max}$	Nm			0.72	0.72
Max Current	$I_{\max}$	A			4.7	4.7
<b>Physical Constants</b>						
Torque Constant	$k_T$	Nm/A			0.06	0.12
Voltage Constant	$k_E$	V/1000rpm			4	8

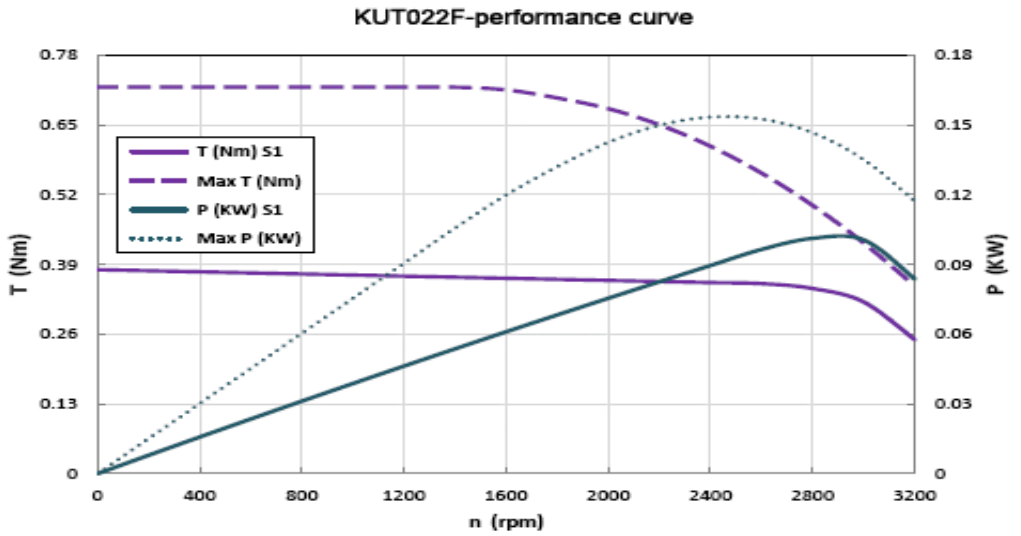


# KUT02X characteristic

021F

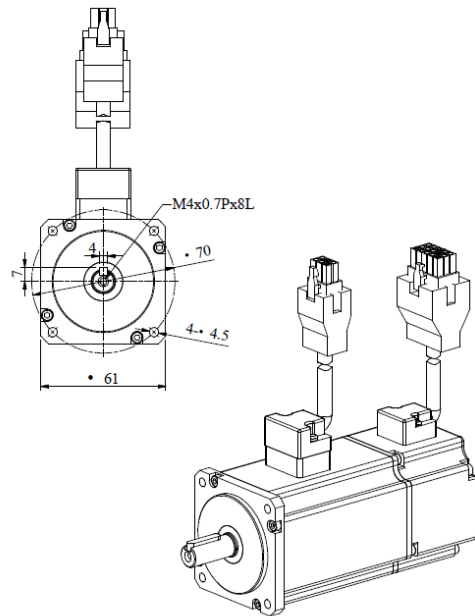
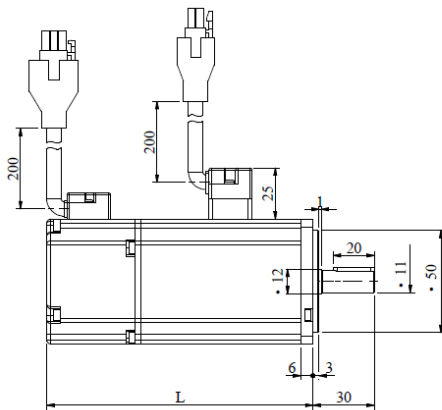


022F



# KUT031 Shaft $\Phi 11$

Technical Data	Code	Unit				F
<b>Configuration Data</b>						
Rated Speed	$n_N$	rpm				3000
Rated Power	$P_N$	kW				0.2
Poles	P					8
Rated Torque (100K)	$T_N$	Nm				0.64
Rated Current (100K)	$I_N$	A				1.6
Static Torque (100K)	$T_0$	Nm				0.77
Stall Current (100K)	$I_0$	A				1.9
Inertia	J	$10^{-4}\text{kgm}^2$				0.26
<b>Limiting Data</b>						
Max Speed	$n_{\max}$	Rpm				3200
Max Torque	$T_{\max}$	Nm				4
Max Current	$I_{\max}$	A				5.1
<b>Physical Constants</b>						
Torque Constant	$k_T$	Nm/A				0.4
Voltage Constant	$k_E$	V/1000rpm				24

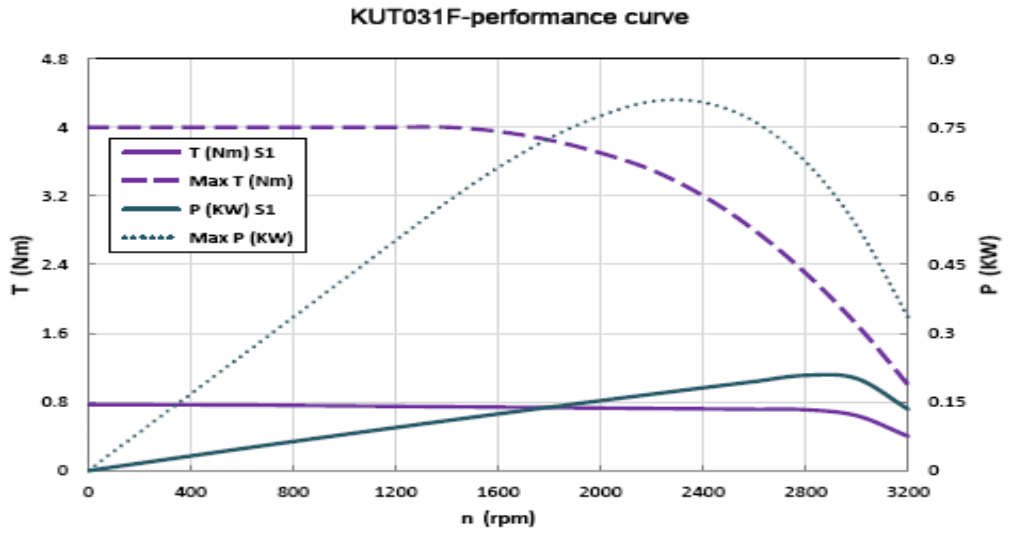


Product number	Brake	L
KUT031F_AAK90A	Without Brake	84
KUT031F_AAK9BA	With Brake	112.5
KUT031F_BAK90A	Without Brake	84
KUT031F_BAK9BA	With Brake	112.5
KUT031F_CAK90A	Without Brake	101.5
KUT031F_CAK9BA	With Brake	130
KUT031F_3AK90A	Without Brake	101.5
KUT031F_3AK9BA	With Brake	130



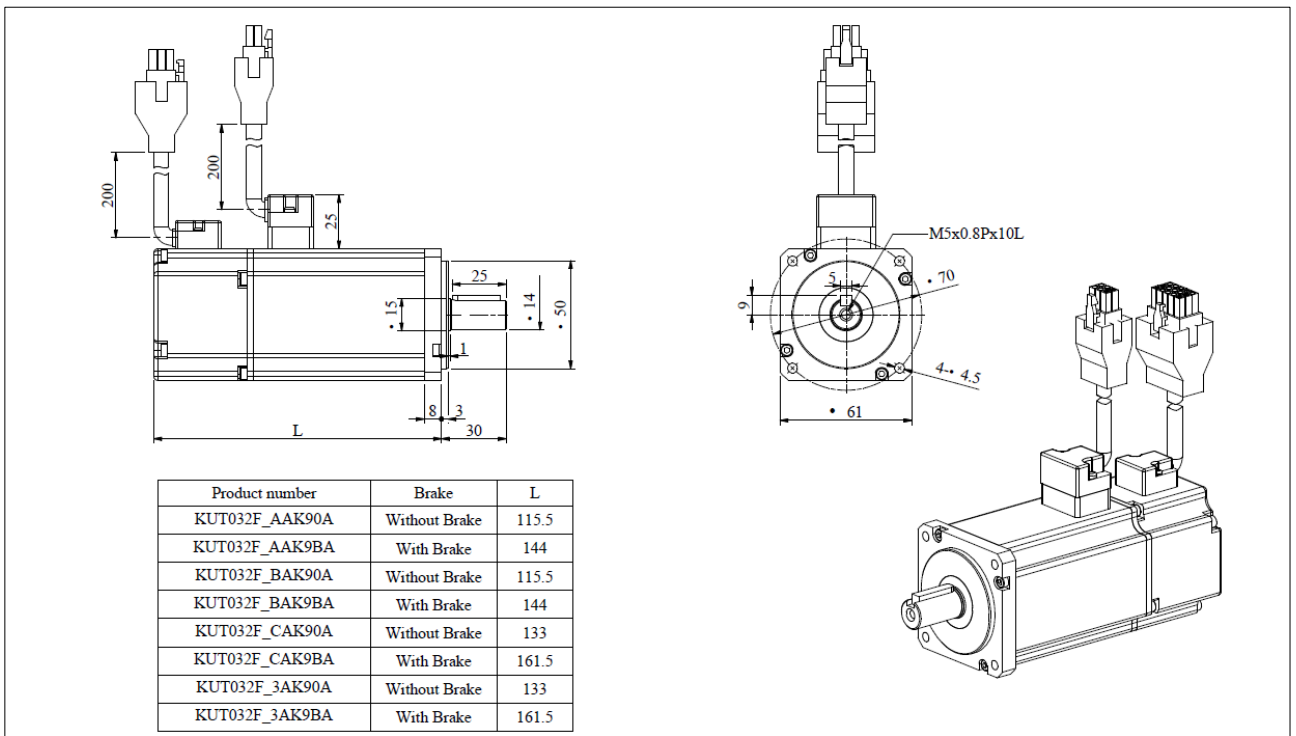
# KUT031 Torque-speed characteristic

031F



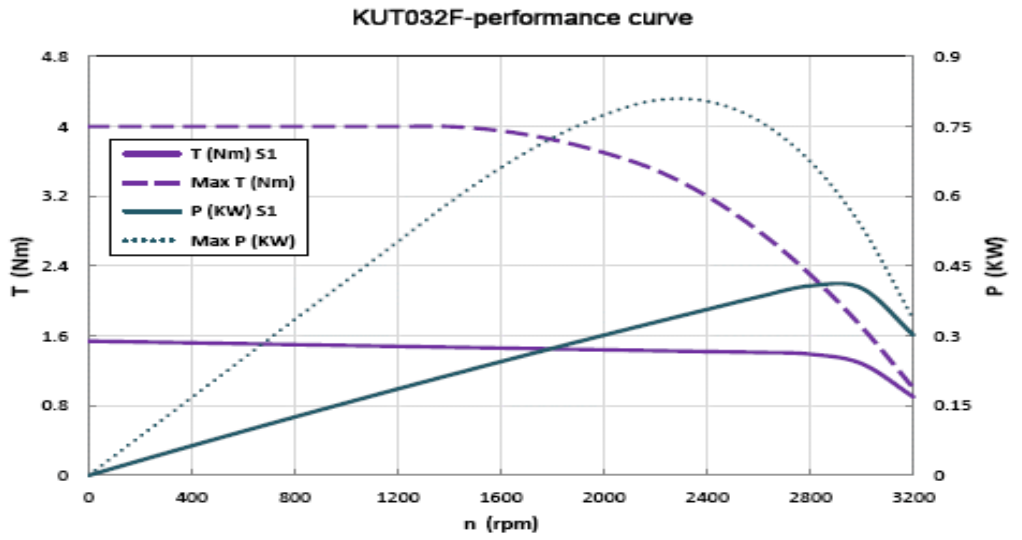
# KUT032 Shaft $\Phi 14$

Technical Data	Code	Unit				F
<b>Configuration Data</b>						
Rated Speed	$n_N$	rpm				3000
Rated Power	$P_N$	kW				0.4
Poles	P					8
Rated Torque (100K)	$T_N$	Nm				1.28
Rated Current (100K)	$I_N$	A				1.6
Static Torque (100K)	$T_0$	Nm				1.54
Stall Current (100K)	$I_0$	A				1.9
Inertia	J	$10^{-4}\text{kgm}^2$				0.26
<b>Limiting Data</b>						
Max Speed	$n_{\text{max}}$	Rpm				3200
Max Torque	$T_{\text{max}}$	Nm				4
Max Current	$I_{\text{max}}$	A				5.1
<b>Physical Constants</b>						
Torque Constant	$k_T$	Nm/A				0.8
Voltage Constant	$k_E$	V/1000rpm				48



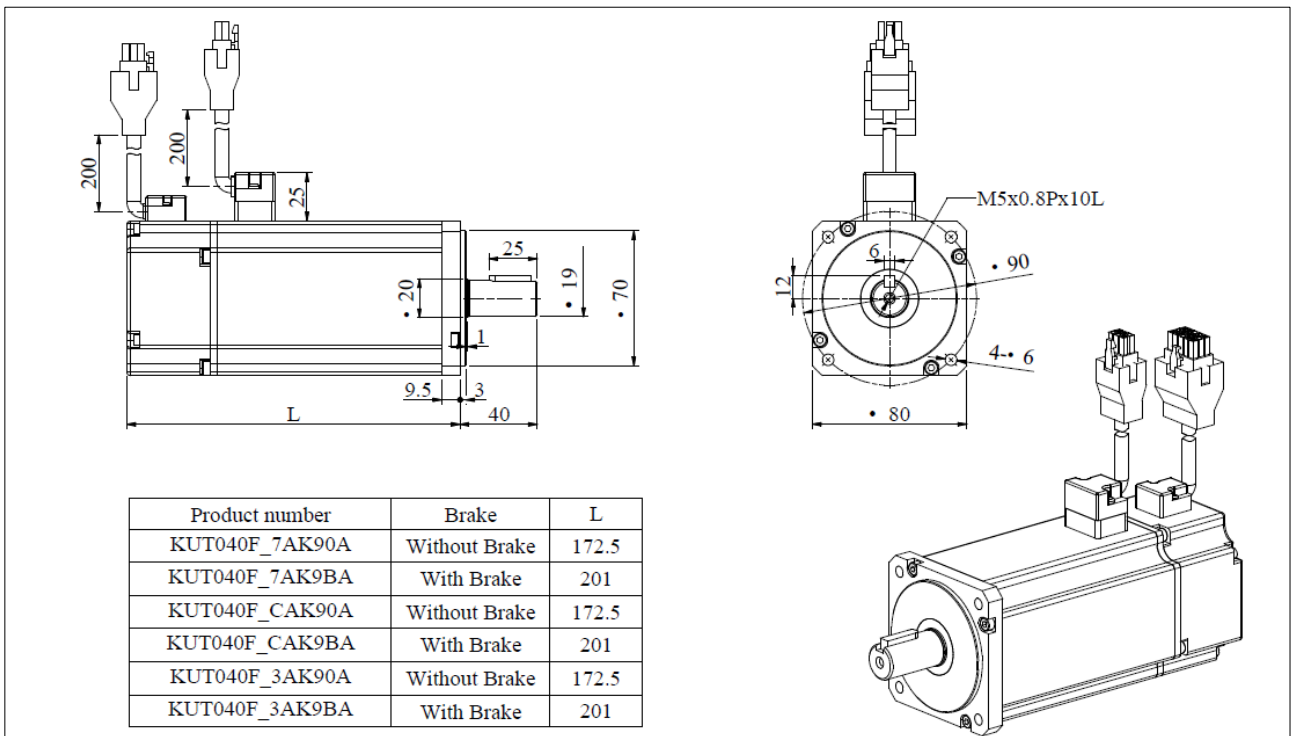
# KUT032 Torque-speed characteristic

032F



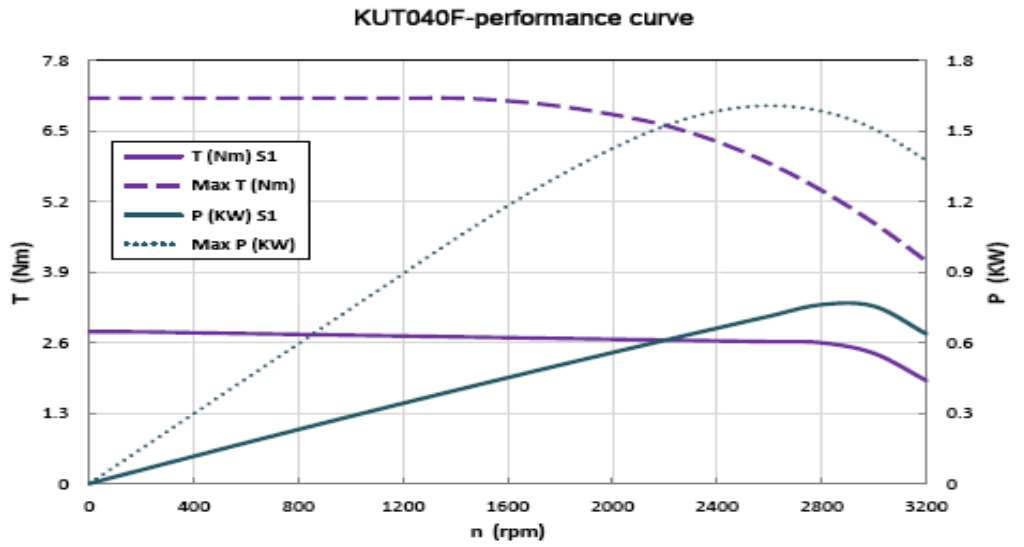
# KUT040 Shaft $\Phi 19$

Technical Data	Code	Unit				F
<b>Configuration Data</b>						
Rated Speed	$n_N$	rpm				3000
Rated Power	$P_N$	kW				0.75
Poles	P					8
Rated Torque (100K)	$T_N$	Nm				2.4
Rated Current (100K)	$I_N$	A				3.5
Static Torque (100K)	$T_0$	Nm				2.8
Stall Current (100K)	$I_0$	A				4.2
Inertia	J	$10^{-4}\text{kgm}^2$				0.87
<b>Limiting Data</b>						
Max Speed	$n_{\max}$	Rpm				3200
Max Torque	$T_{\max}$	Nm				7.1
Max Current	$I_{\max}$	A				17.4
<b>Physical Constants</b>						
Torque Constant	$k_T$	Nm/A				0.7
Voltage Constant	$k_E$	V/1000rpm				42



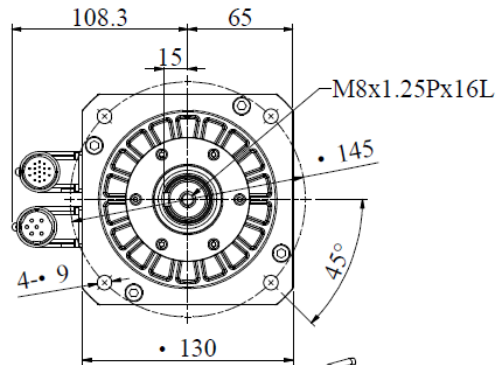
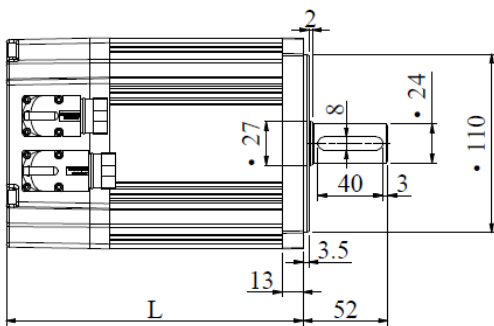
# KUT040 Torque-speed characteristic

040F

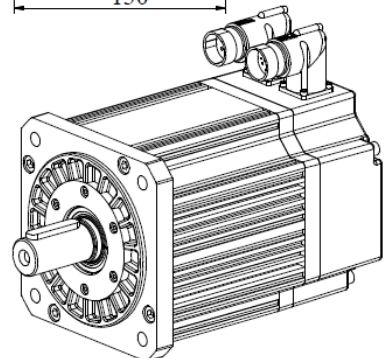


# KUT061 Shaft $\Phi 24$

Technical Data	Code	Unit			C	F
<b>Configuration Data</b>						
Rated Speed	$n_N$	rpm			2000	3000
Rated Power	$P_N$	kW			1.5	2
Poles	P				10	10
Rated Torque (100K)	$T_N$	Nm			7.2	6.6
Rated Current (100K)	$I_N$	A			3.5	4.4
Static Torque (100K)	$T_0$	Nm			8	7
Stall Current (100K)	$I_0$	A			3.6	4.5
Inertia	J	$10^{-4}\text{kgm}^2$			10	10
<b>Limiting Data</b>						
Max Speed	$n_{\max}$	Rpm			2400	3200
Max Torque	$T_{\max}$	Nm			32	32
Max Current	$I_{\max}$	A			16	25
<b>Physical Constants</b>						
Torque Constant	$k_T$	Nm/A			2.2	1.5
Voltage Constant	$k_E$	V/1000rpm			140	90

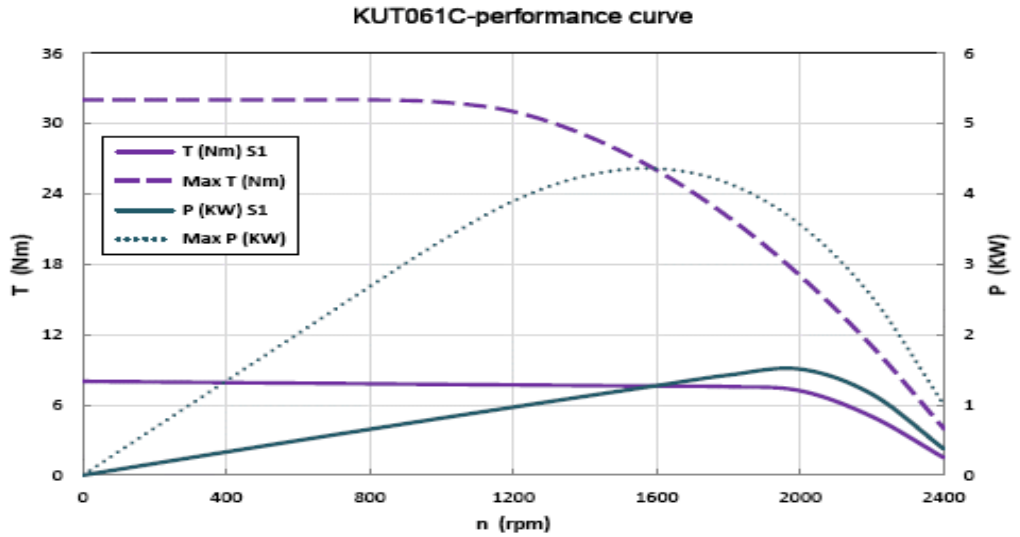


Product number	Brake	L
KUT061X_XAX10A	无	183
KUT061X_XAX1BA	有	218
KUT062X_XAX10A	无	218
KUT062X_XAX1BA	有	253

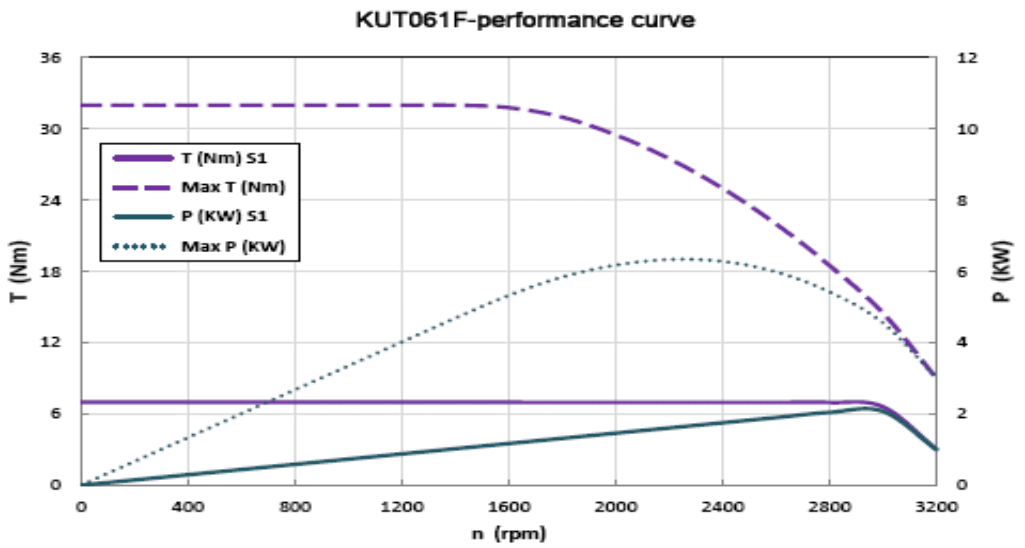


# KUT061 Torque-speed characteristic

061C

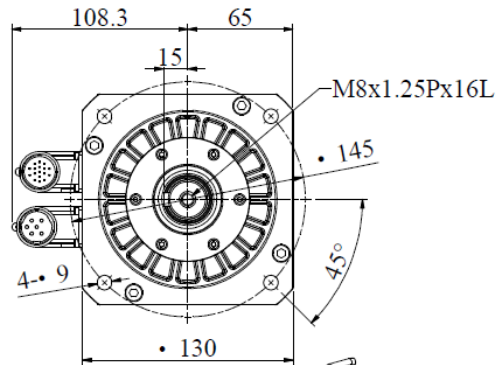
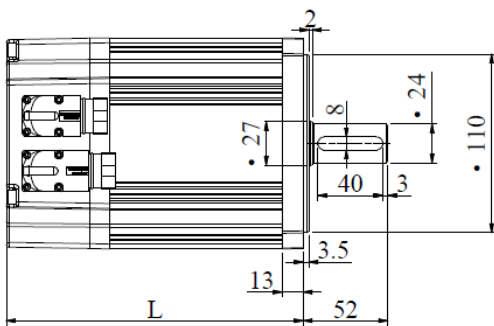


061F

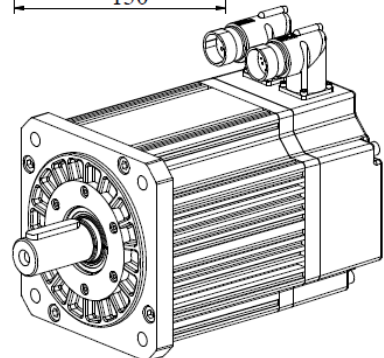


# KUT062 Shaft $\Phi 24$

Technical Data	Code	Unit			C	F
<b>Configuration Data</b>						
Rated Speed	$n_N$	rpm			2000	3000
Rated Power	$P_N$	kW			2.3	3
Poles	P				10	10
Rated Torque (100K)	$T_N$	Nm			11	9
Rated Current (100K)	$I_N$	A			5	6.5
Static Torque (100K)	$T_0$	Nm			12	11
Stall Current (100K)	$I_0$	A			5.2	7
Inertia	J	$10^{-4}\text{kgm}^2$			15	15
<b>Limiting Data</b>						
Max Speed	$n_{\max}$	Rpm			2400	3200
Max Torque	$T_{\max}$	Nm			50	50
Max Current	$I_{\max}$	A			25	40
<b>Physical Constants</b>						
Torque Constant	$k_T$	Nm/A			2.3	1.4
Voltage Constant	$k_E$	V/1000rpm			140	90



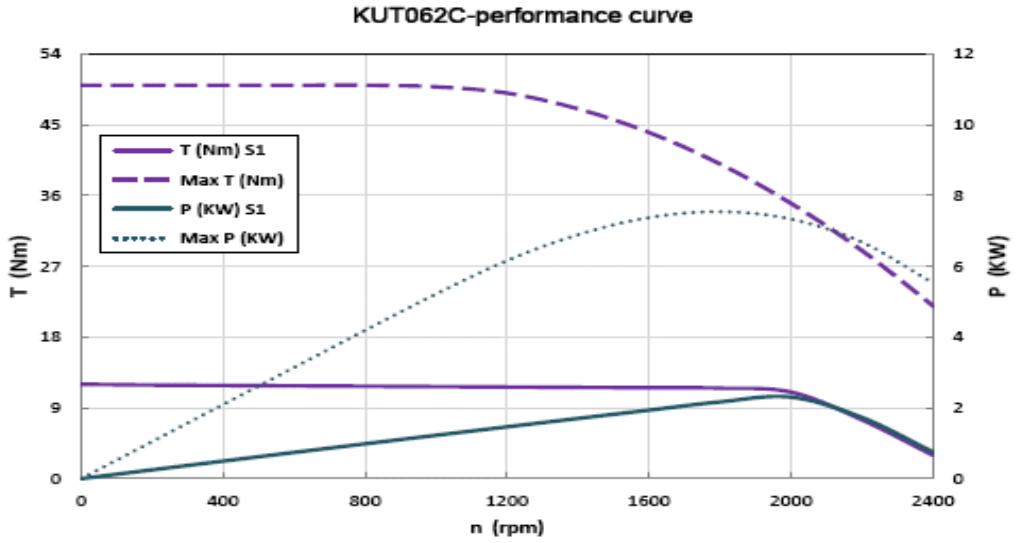
Product number	Brake	L
KUT061X_XAX10A	无	183
KUT061X_XAX1BA	有	218
KUT062X_XAX10A	无	218
KUT062X_XAX1BA	有	253



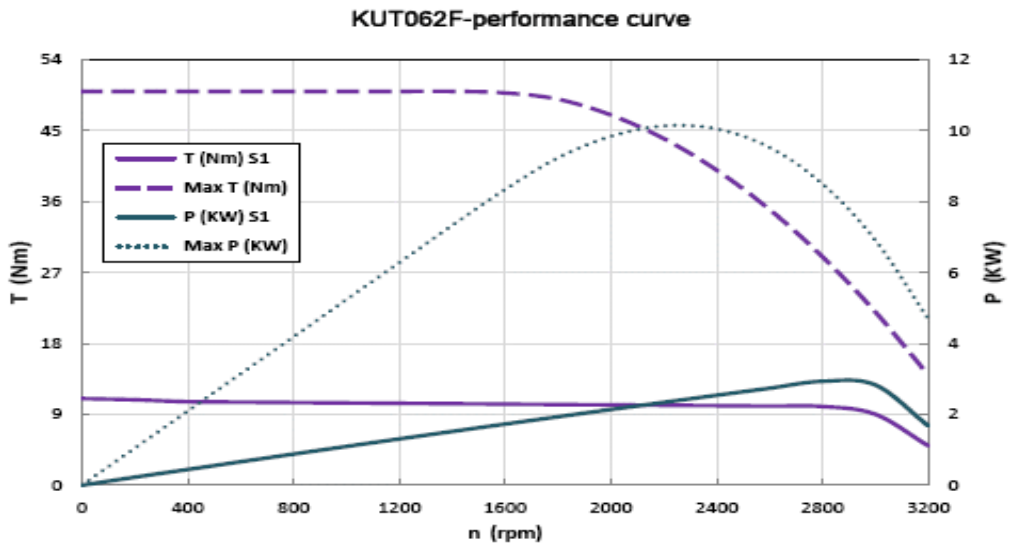


# KUT062 Torque-speed characteristic

062C

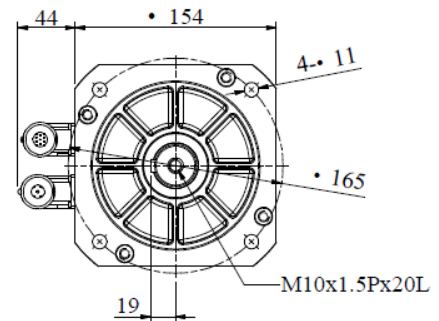
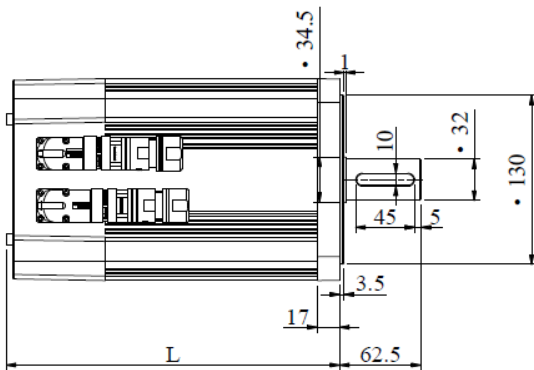


062F

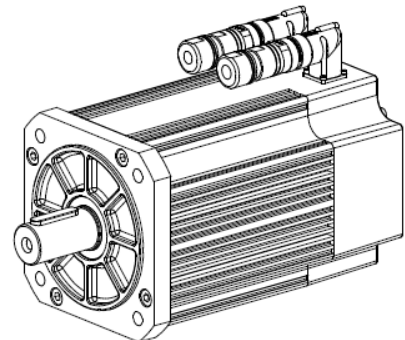


# KUT08X Shaft $\Phi 32$

Technical Data	Code	Unit	083C	083F	085C	085F
<b>Configuration Data</b>						
Rated Speed	$n_N$	rpm	2000	3000	2000	3000
Rated Power	$P_N$	kW	4.5	5.6	6	7.5
Poles	P		10	10	10	10
Rated Torque (100K)	$T_N$	Nm	21.5	18	28.7	24
Rated Current (100K)	$I_N$	A	8.6	13	13	14.5
Static Torque (100K)	$T_0$	Nm	22.3	22	29.7	29
Stall Current (100K)	$I_0$	A	8.7	15	13.2	17
Inertia	J	$10^{-4}\text{kgm}^2$	35	35	50	50
<b>Limiting Data</b>						
Max Speed	$n_{\max}$	Rpm	2400	3200	2400	3200
Max Torque	$T_{\max}$	Nm	80	80	120	120
Max Current	$I_{\max}$	A	38	70	70	100
<b>Physical Constants</b>						
Torque Constant	$k_T$	Nm/A	2.5	1.4	2.2	1.65
Voltage Constant	$k_E$	V/1000rpm	150	84	140	100

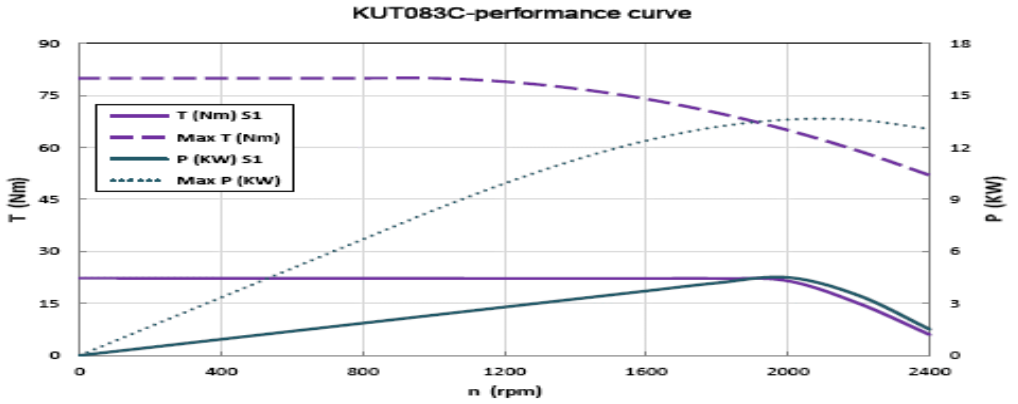


Product number	Brake	L
KUT083X_XAX10A	without	256
KUT083X_XAX1BA	with	281
KUT085X_XAX10A	without	306
KUT085X_XAX1BA	with	331

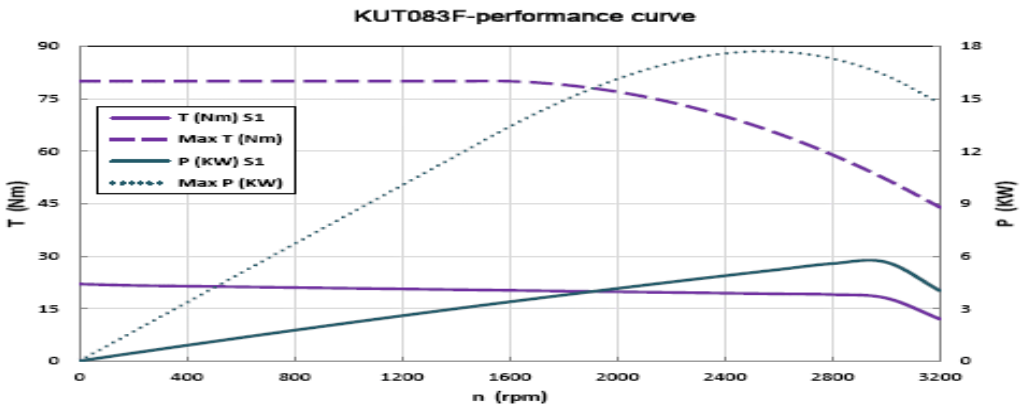


# KUT08X Torque-speed characteristic

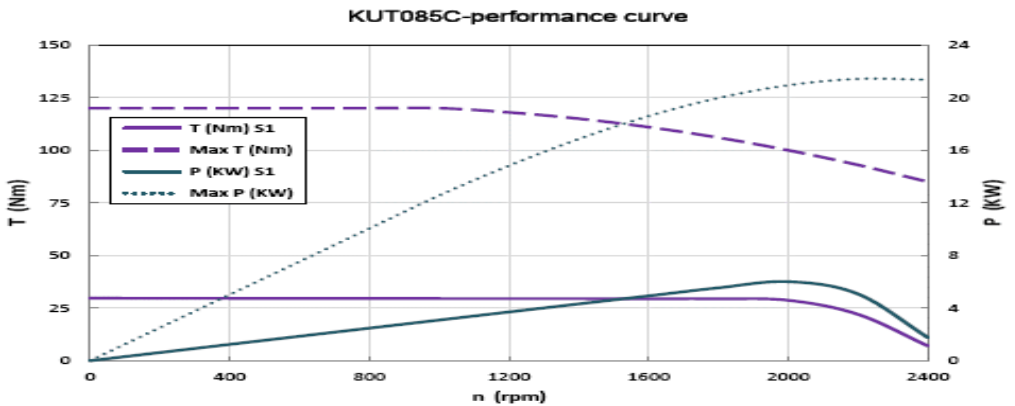
083C



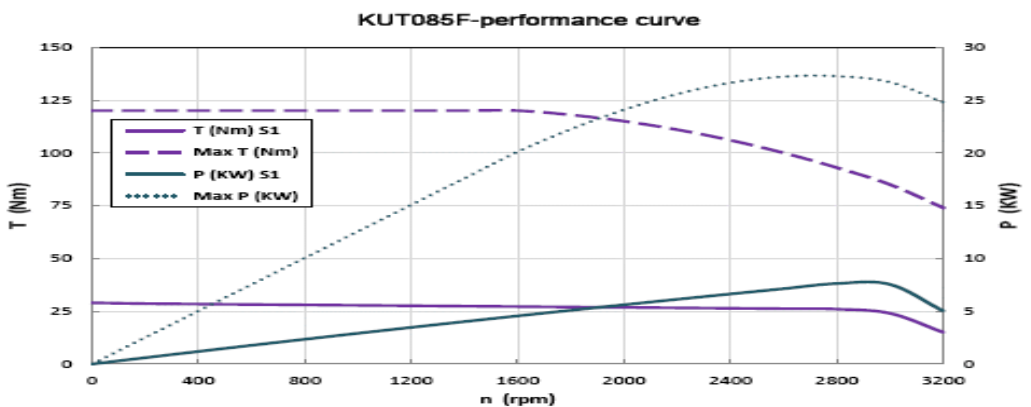
083F



085C



085F



## KUT101 Shaft $\Phi 42$

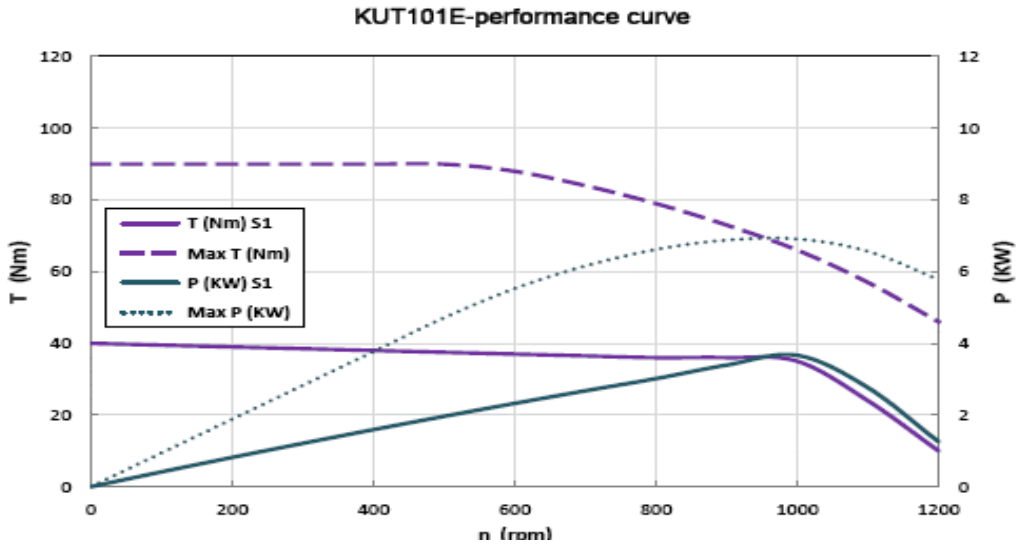
Technical Data	Code	Unit		E		C		F
<b>Configuration Data</b>								
Rated Speed	$n_N$	rpm		1000		2000		3000
Rated Power	$P_N$	kW		3.5		6		6.5
Poles	P			10		10		10
Rated Torque (100K)	$T_N$	Nm		35		30		21
Rated Current (100K)	$I_N$	A		8		13		18
Static Torque (100K)	$T_0$	Nm		40		40		40
Stall Current (100K)	$I_0$	A		9		17		32
Inertia	J	$10^{-4}\text{kgm}^2$		50		50		50
<b>Limiting Data</b>								
Max Speed	$n_{\max}$	Rpm		1200		2400		3200
Max Torque	$T_{\max}$	Nm		90		90		90
Max Current	$I_{\max}$	A		20		40		70
<b>Physical Constants</b>								
Torque Constant	$k_T$	Nm/A		5		2.5		1.3
Voltage Constant	$k_E$	V/1000rpm		300		150		80

## KUT103 Shaft $\Phi 42$

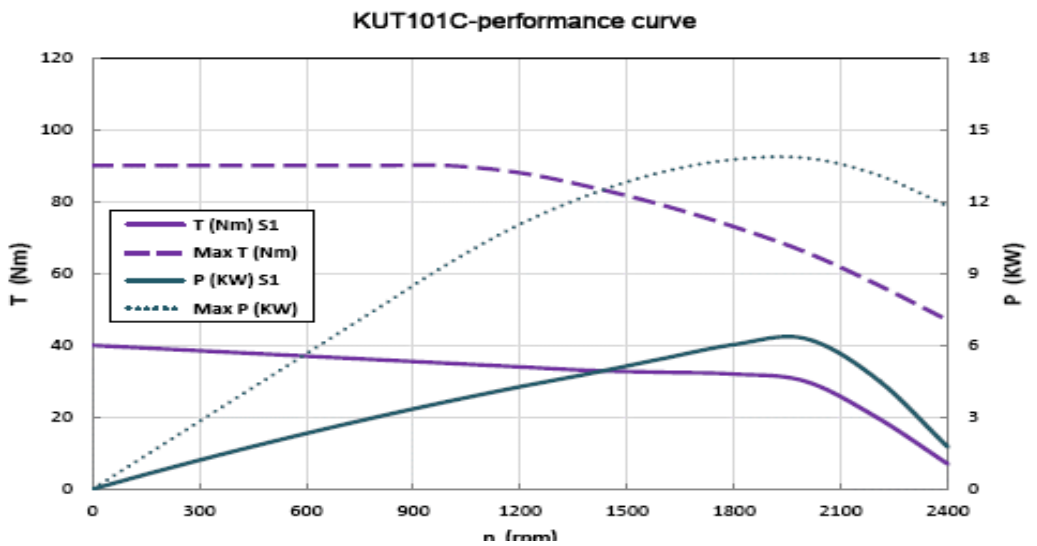
Technical Data	Code	Unit		E		C		F
<b>Configuration Data</b>								
Rated Speed	$n_N$	rpm		1000		2000		3000
Rated Power	$P_N$	kW		6		11		11.5
Poles	P			10		10		10
Rated Torque (100K)	$T_N$	Nm		60		52		37
Rated Current (100K)	$I_N$	A		13		22		25
Static Torque (100K)	$T_0$	Nm		75		75		75
Stall Current (100K)	$I_0$	A		16		32		50
Inertia	J	$10^{-4}\text{kgm}^2$		90		90		90
<b>Limiting Data</b>								
Max Speed	$n_{\max}$	Rpm		1200		2400		3200
Max Torque	$T_{\max}$	Nm		160		160		160
Max Current	$I_{\max}$	A		36		72		105
<b>Physical Constants</b>								
Torque Constant	$k_T$	Nm/A		5		2.5		1.6
Voltage Constant	$k_E$	V/1000rpm		300		150		100

# KUT101 Torque-speed characteristic

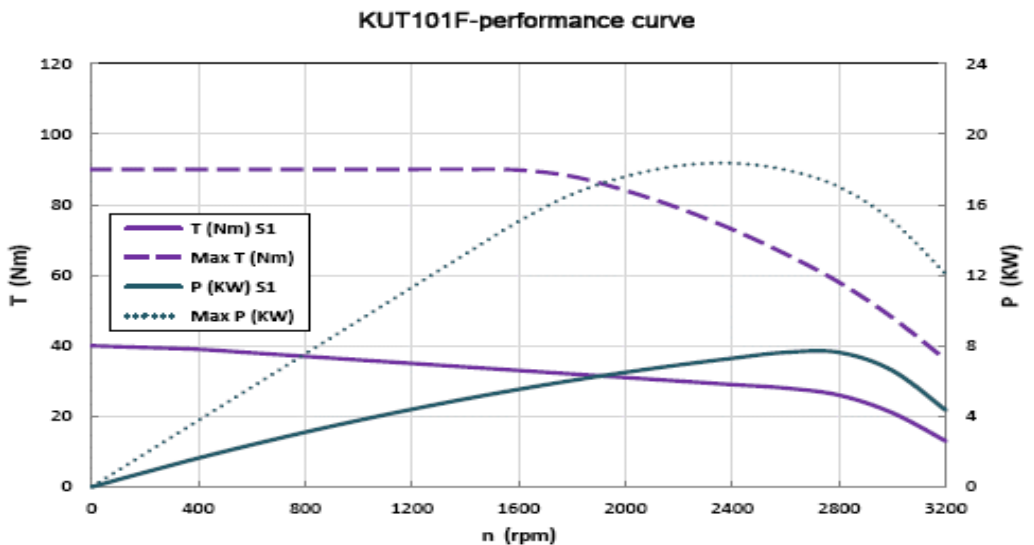
101E



101C

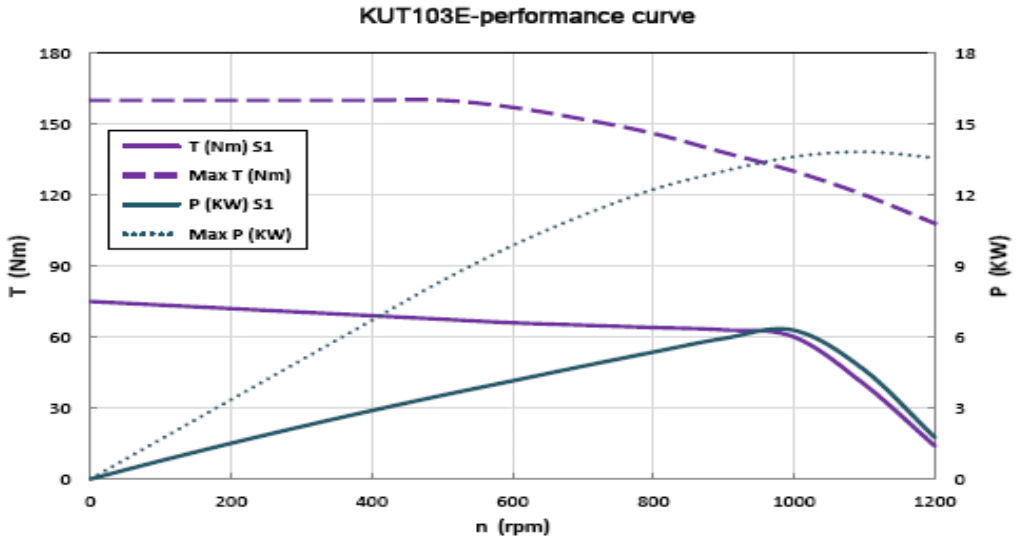


101F

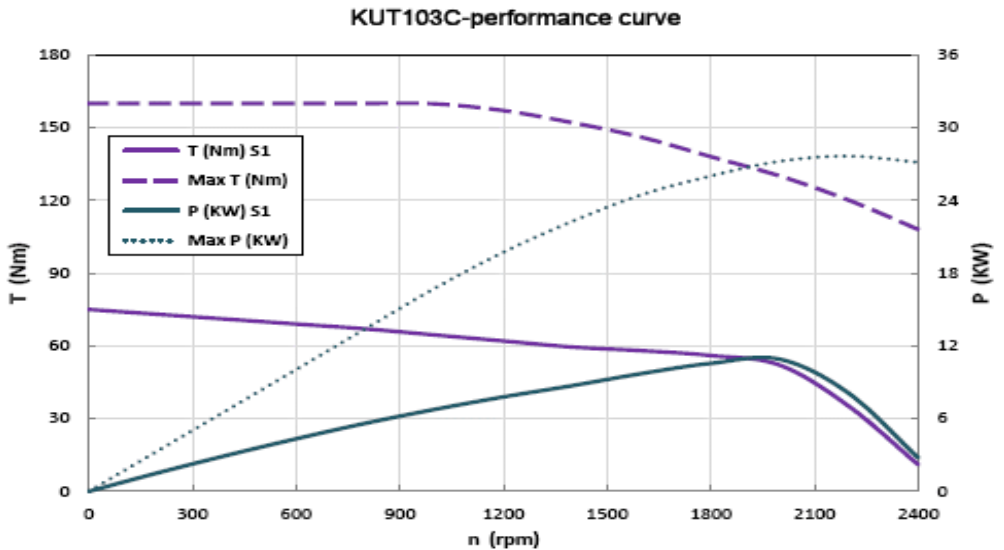


# KUT103 转矩-转速特性/Torque-speed characteristic

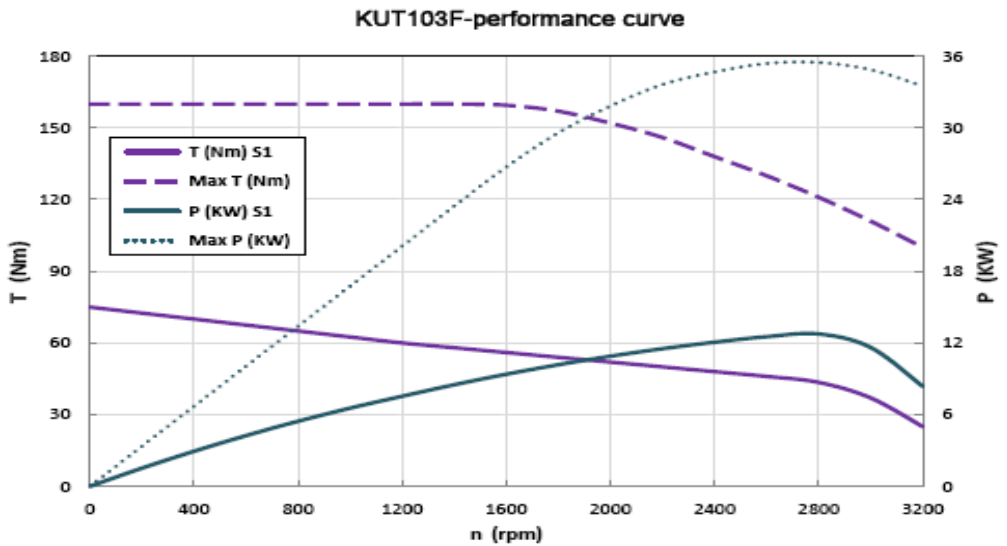
103E



103C



103F



## KUT105 Shaft $\Phi 42$

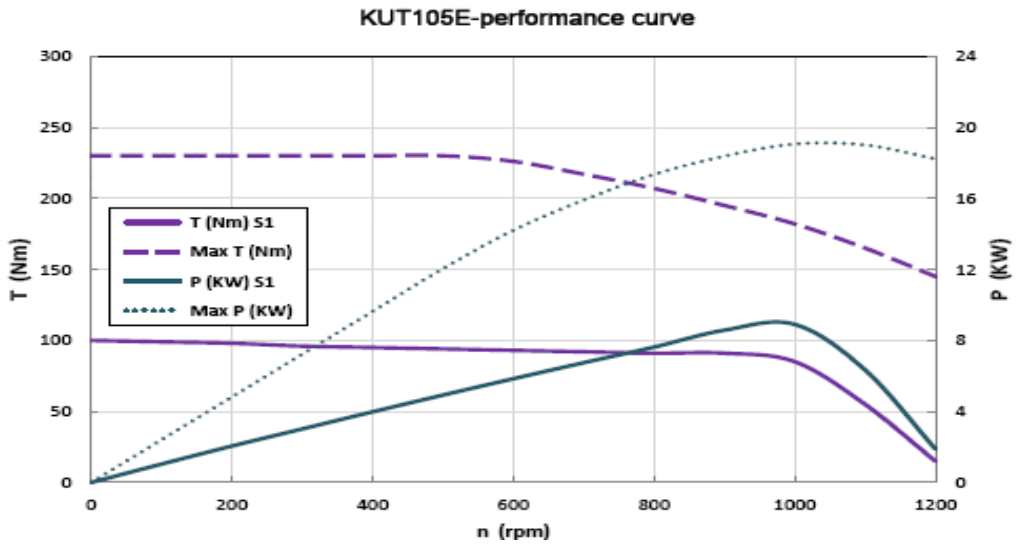
Technical Data	Code	Unit		E		C		F
<b>Configuration Data</b>								
Rated Speed	$n_N$	rpm		1000		2000		3000
Rated Power	$P_N$	kW		9		15		16
Poles	P			10		10		10
Rated Torque (100K)	$T_N$	Nm		85		73		51
Rated Current (100K)	$I_N$	A		19		31		31
Static Torque (100K)	$T_0$	Nm		100		100		100
Stall Current (100K)	$I_0$	A		21		42		58
Inertia	J	$10^{-4}\text{kgm}^2$		130		130		130
<b>Limiting Data</b>								
Max Speed	$n_{\max}$	Rpm		1200		2400		3200
Max Torque	$T_{\max}$	Nm		230		230		230
Max Current	$I_{\max}$	A		52.5		105		160
<b>Physical Constants</b>								
Torque Constant	$k_T$	Nm/A		5		2.5		1.8
Voltage Constant	$k_E$	V/1000rpm		300		150		110

## KUT107 Shaft $\Phi 42$

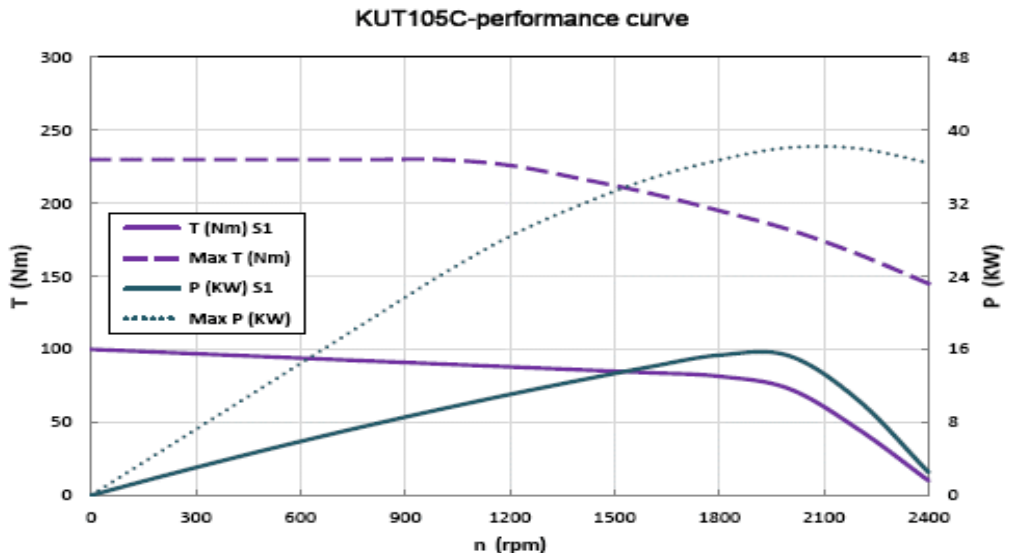
Technical Data	Code	Unit		E		C		
<b>Configuration Data</b>								
Rated Speed	$n_N$	rpm		1000		2000		
Rated Power	$P_N$	kW		11.5		21		
Poles	P			10		10		
Rated Torque (100K)	$T_N$	Nm		110		100		
Rated Current (100K)	$I_N$	A		25		43		
Static Torque (100K)	$T_0$	Nm		128		128		
Stall Current (100K)	$I_0$	A		27		55		
Inertia	J	$10^{-4}\text{kgm}^2$		170		170		
<b>Limiting Data</b>								
Max Speed	$n_{\max}$	Rpm		1200		2400		
Max Torque	$T_{\max}$	Nm		350		350		
Max Current	$I_{\max}$	A		80		160		
<b>Physical Constants</b>								
Torque Constant	$k_T$	Nm/A		5		2.5		
Voltage Constant	$k_E$	V/1000rpm		300		150		

# KUT105 Torque-speed characteristic

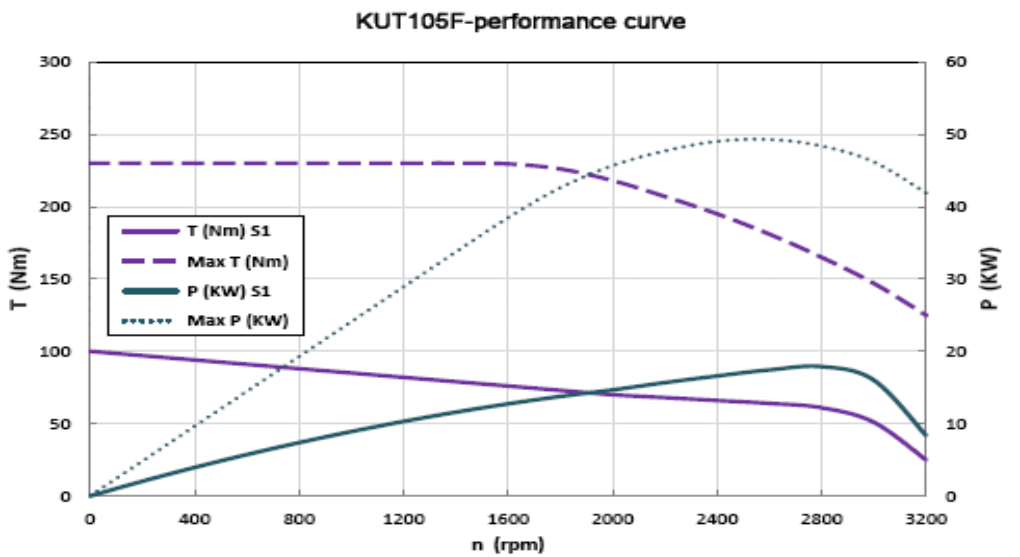
105E



105C



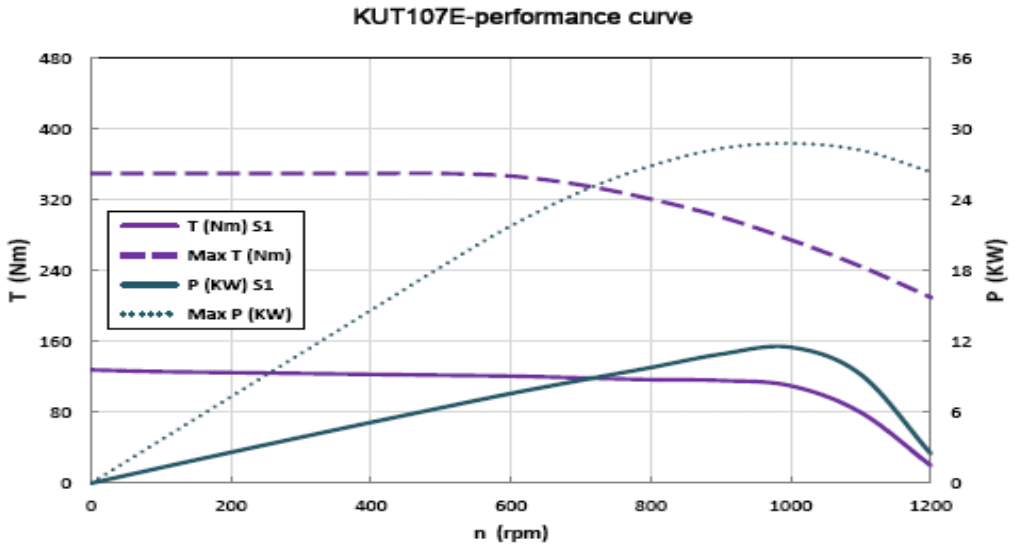
105F



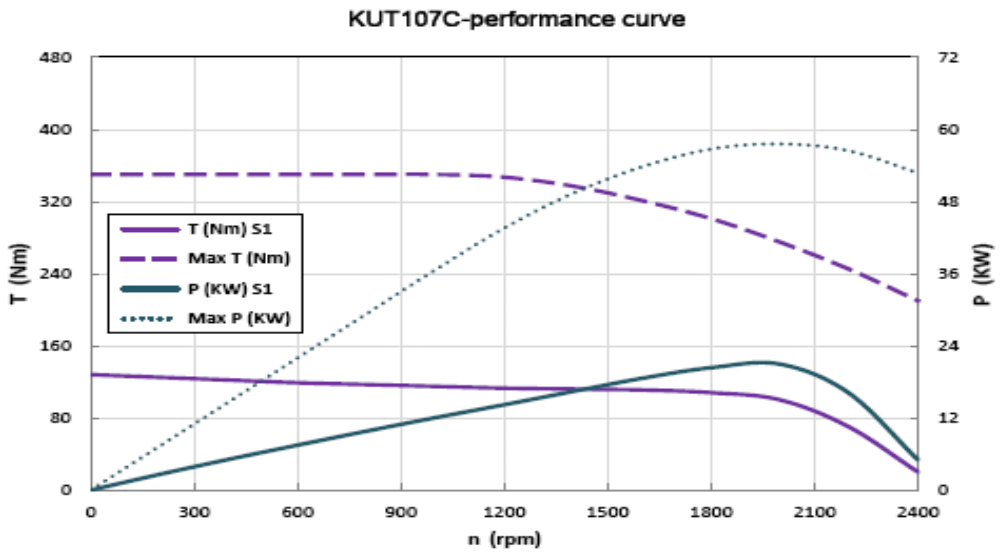


# KUT107 Torque-speed characteristic

107E

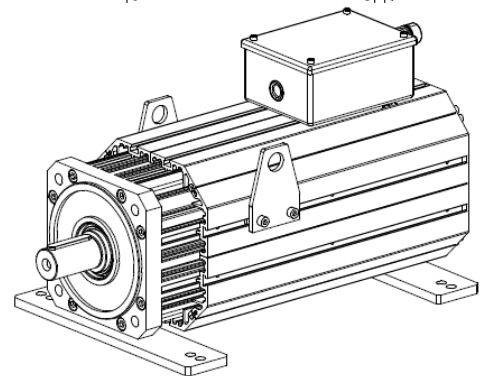
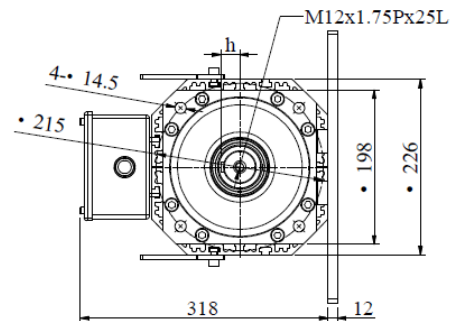
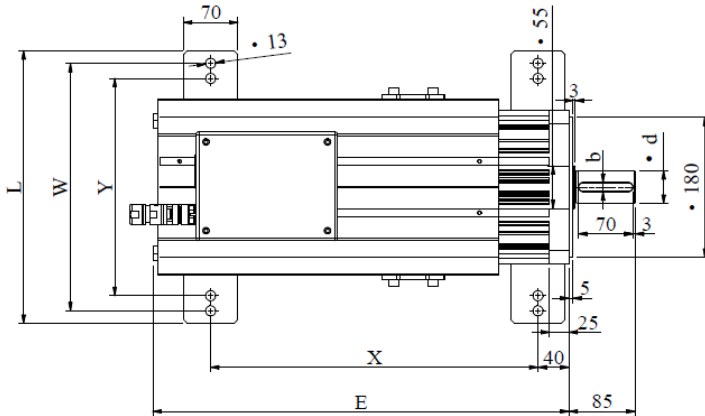


107C



# KUT109 Shaft $\Phi 42$

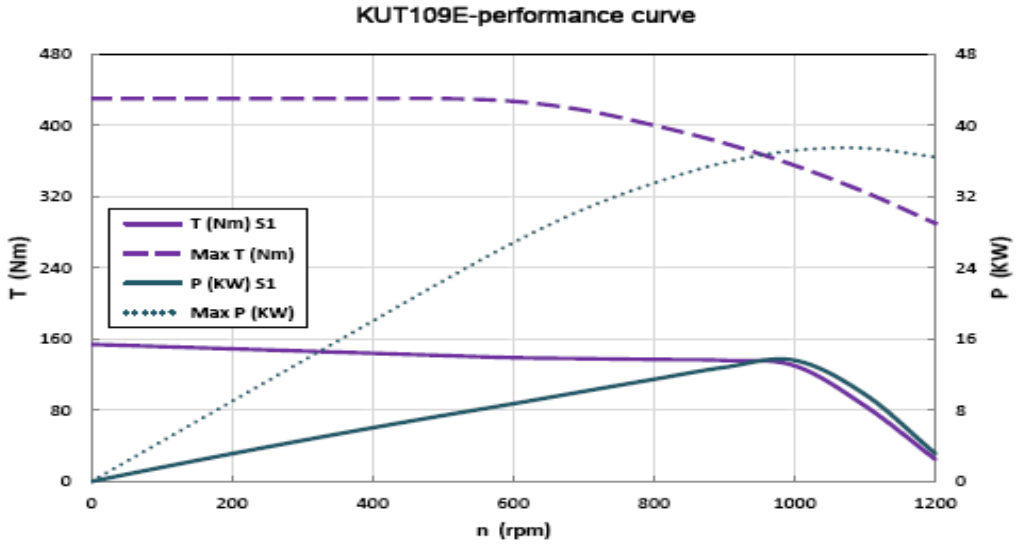
Technical Data	Code	Unit		E	C		
<b>Configuration Data</b>							
Rated Speed	$n_N$	rpm		1000	2000		
Rated Power	$P_N$	kW		13.5	24		
Poles	P			10	10		
Rated Torque (100K)	$T_N$	Nm		130	115		
Rated Current (100K)	$I_N$	A		29	49		
Static Torque (100K)	$T_0$	Nm		154	154		
Stall Current (100K)	$I_0$	A		32	65		
Inertia	J	$10^{-4}\text{kgm}^2$		210	210		
<b>Limiting Data</b>							
Max Speed	$n_{\max}$	Rpm		1200	2400		
Max Torque	$T_{\max}$	Nm		430	430		
Max Current	$I_{\max}$	A		100	200		
<b>Physical Constants</b>							
Torque Constant	$k_T$	Nm/A		5	2.5		
Voltage Constant	$k_E$	V/1000rpm		300	150		



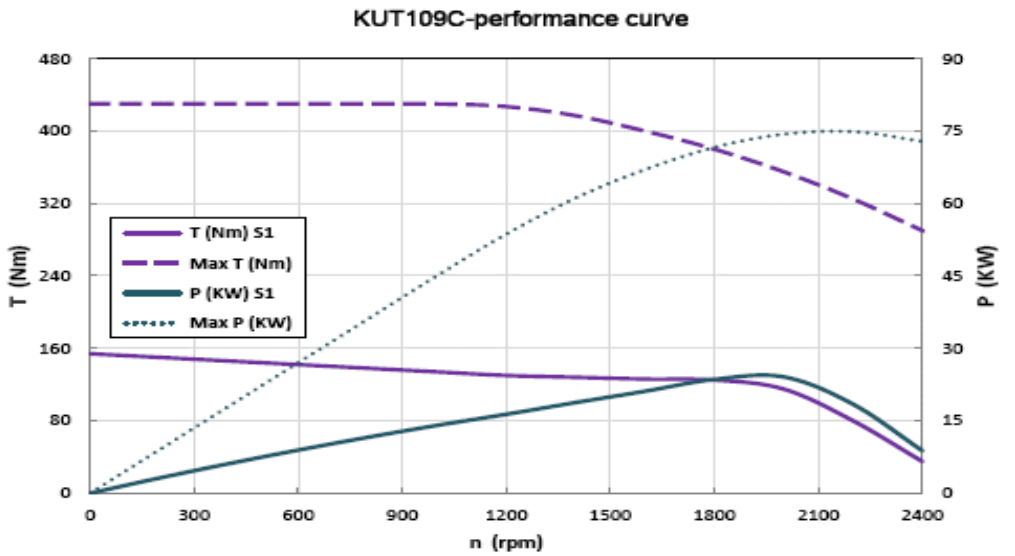
KUT10X Series									
序号	Product Code	d	b	h	X	Y	W	L	E
1	KUT101X_XFX50B	38	10	22	220	254	/	325	324
		42	12	24					
2	KUT103X_XFX50B	38	10	22	270	254	/	325	376.5
		42	12	24					
3	KUT105X_XFX50B	38	10	22	320	279	318	350	429
		42	12	24					
4	KUT107X_XFX50B	42	12	24	370	279	318	350	481.5
5	KUT109X_XFX50B	42	12	24	420	279	318	350	534

# KUT109 Torque-speed characteristic

109E



109C



## KUT132 Shaft $\Phi 60$

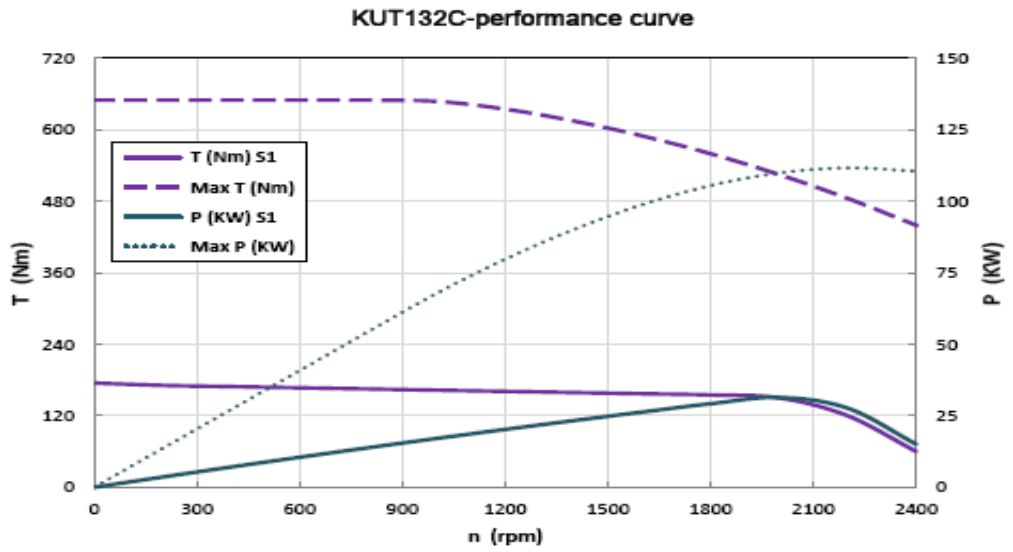
Technical Data	Code	Unit			C	
<b>Configuration Data</b>						
Rated Speed	$n_N$	rpm			2000	
Rated Power	$P_N$	kW			31	
Poles	P				8	
Rated Torque (100K)	$T_N$	Nm			150	
Rated Current (100K)	$I_N$	A			70	
Static Torque (100K)	$T_0$	Nm			175	
Stall Current (100K)	$I_0$	A			75	
Inertia	J	$10^{-4}\text{kgm}^2$			350	
<b>Limiting Data</b>						
Max Speed	$n_{\max}$	Rpm			2400	
Max Torque	$T_{\max}$	Nm			650	
Max Current	$I_{\max}$	A			300	
<b>Physical Constants</b>						
Torque Constant	$k_T$	Nm/A			2.5	
Voltage Constant	$k_E$	V/1000rpm			150	

## KUT134 Shaft $\Phi 60$

Technical Data	Code	Unit			C	
<b>Configuration Data</b>						
Rated Speed	$n_N$	rpm			2000	
Rated Power	P	kW			38	
Poles	$P_N$				8	
Rated Torque (100K)	$T_N$	Nm			180	
Rated Current (100K)	$I_N$	A			90	
Static Torque (100K)	$T_0$	Nm			200	
Stall Current (100K)	$I_0$	A			85	
Inertia	J	$10^{-4}\text{kgm}^2$			520	
<b>Limiting Data</b>						
Max Speed	$n_{\max}$	Rpm			2400	
Max Torque	$T_{\max}$	Nm			900	
Max Current	$I_{\max}$	A			400	
<b>Physical Constants</b>						
Torque Constant	$k_T$	Nm/A			2.5	
Voltage Constant	$k_E$	V/1000rpm			150	

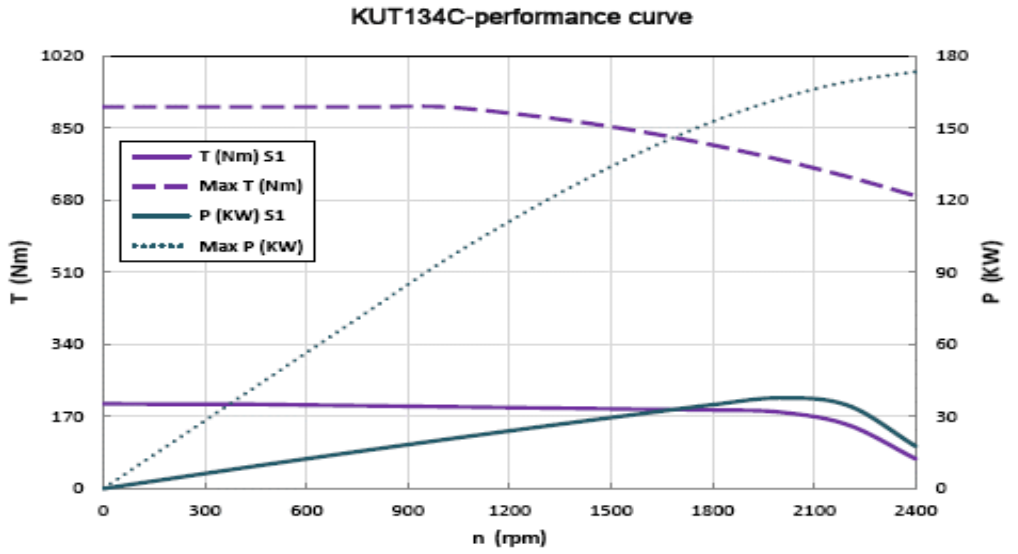
# KUT132 Torque-speed characteristic

132C



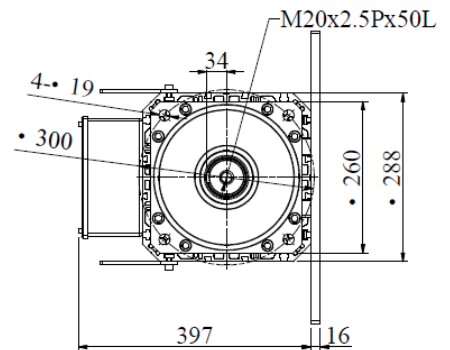
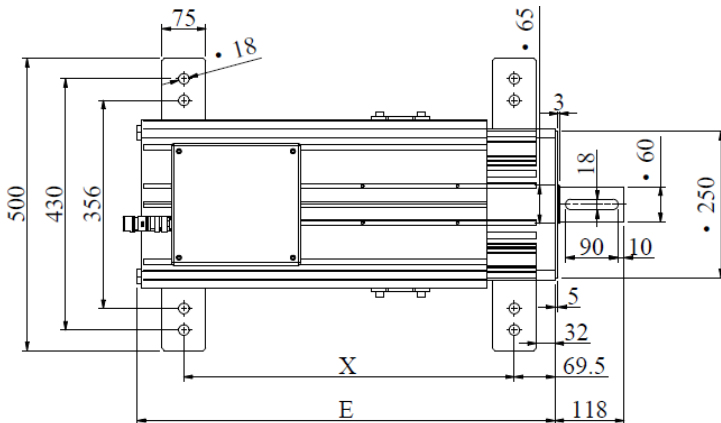
# KUT134 转矩-转速特性/Torque-speed characteristic

134C

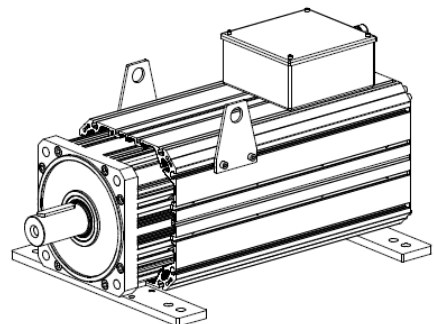


# KUT136 Shaft $\Phi 60$

Technical Data	Code	Unit			C
<b>Configuration Data</b>					
Rated Speed	$n_N$	rpm			2000
Rated Power	$P_N$	kW			52
Poles	P				8
Rated Torque (100K)	$T_N$	Nm			250
Rated Current (100K)	$I_N$	A			115
Static Torque (100K)	$T_0$	Nm			280
Stall Current (100K)	$I_0$	A			120
Inertia	J	$10^{-4}\text{kgm}^2$			690
<b>Limiting Data</b>					
Max Speed	$n_{\max}$	Rpm			2400
Max Torque	$T_{\max}$	Nm			1100
Max Current	$I_{\max}$	A			500
<b>Physical Constants</b>					
Torque Constant	$k_T$	Nm/A			2.5
Voltage Constant	$k_E$	V/1000rpm			150

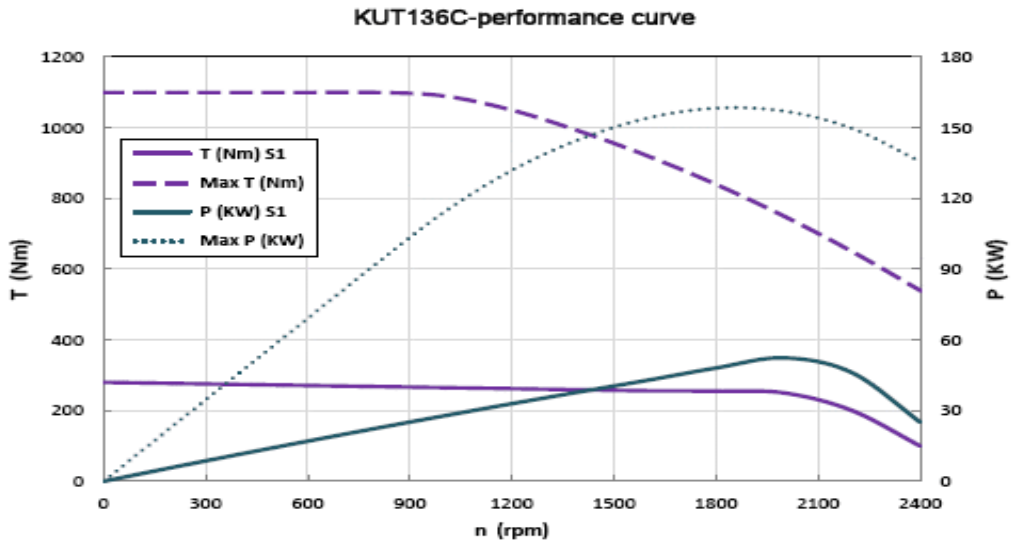


KUT13X Series			
序号	Product Code	X	E
1	KUT132C_XFX50B	405	554.7
2	KUT134C_XFX50B	485	634.7
3	KUT136C_XFX50B	565	714.7



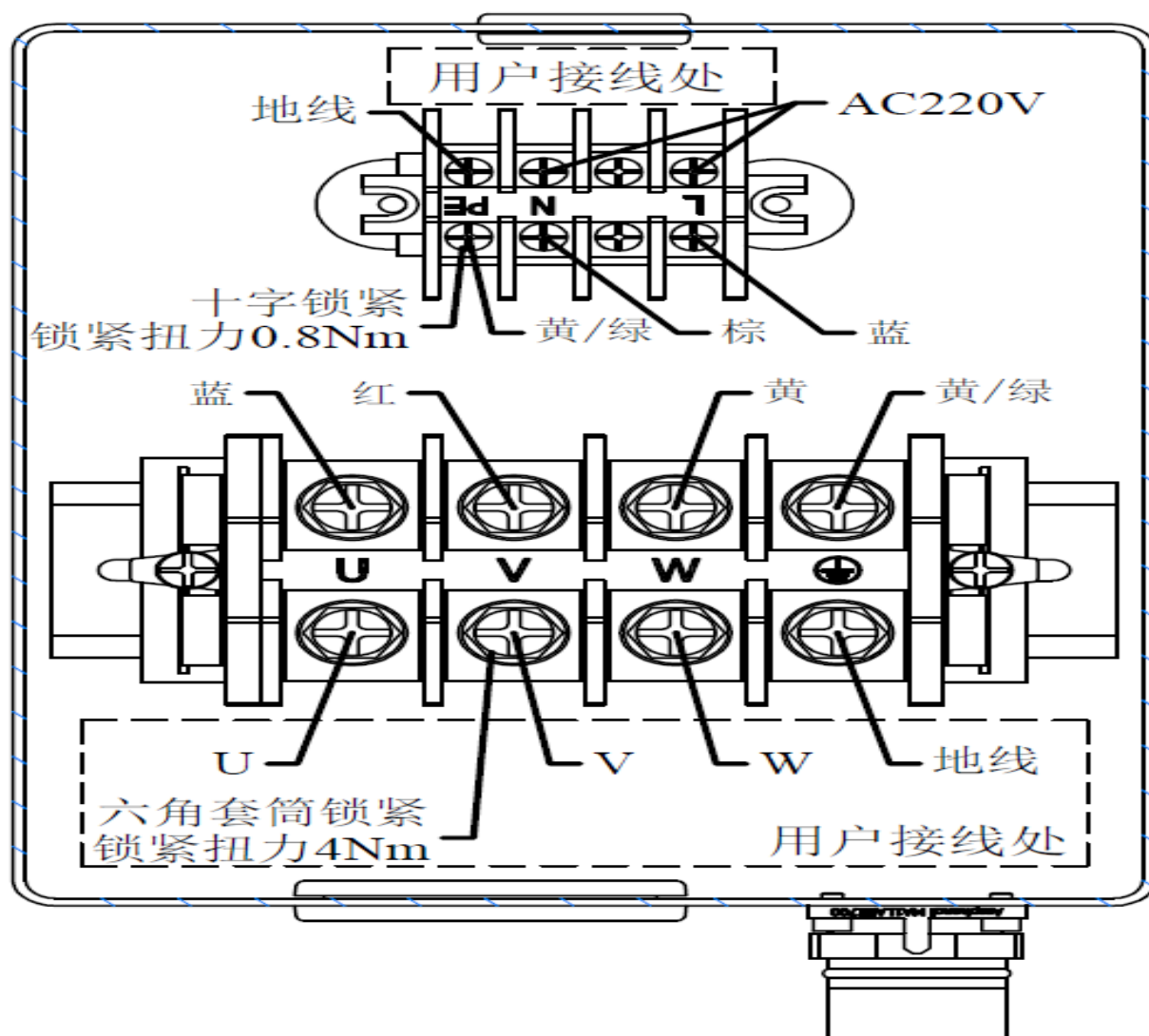
# KUT136 Torque-speed characteristic

136C





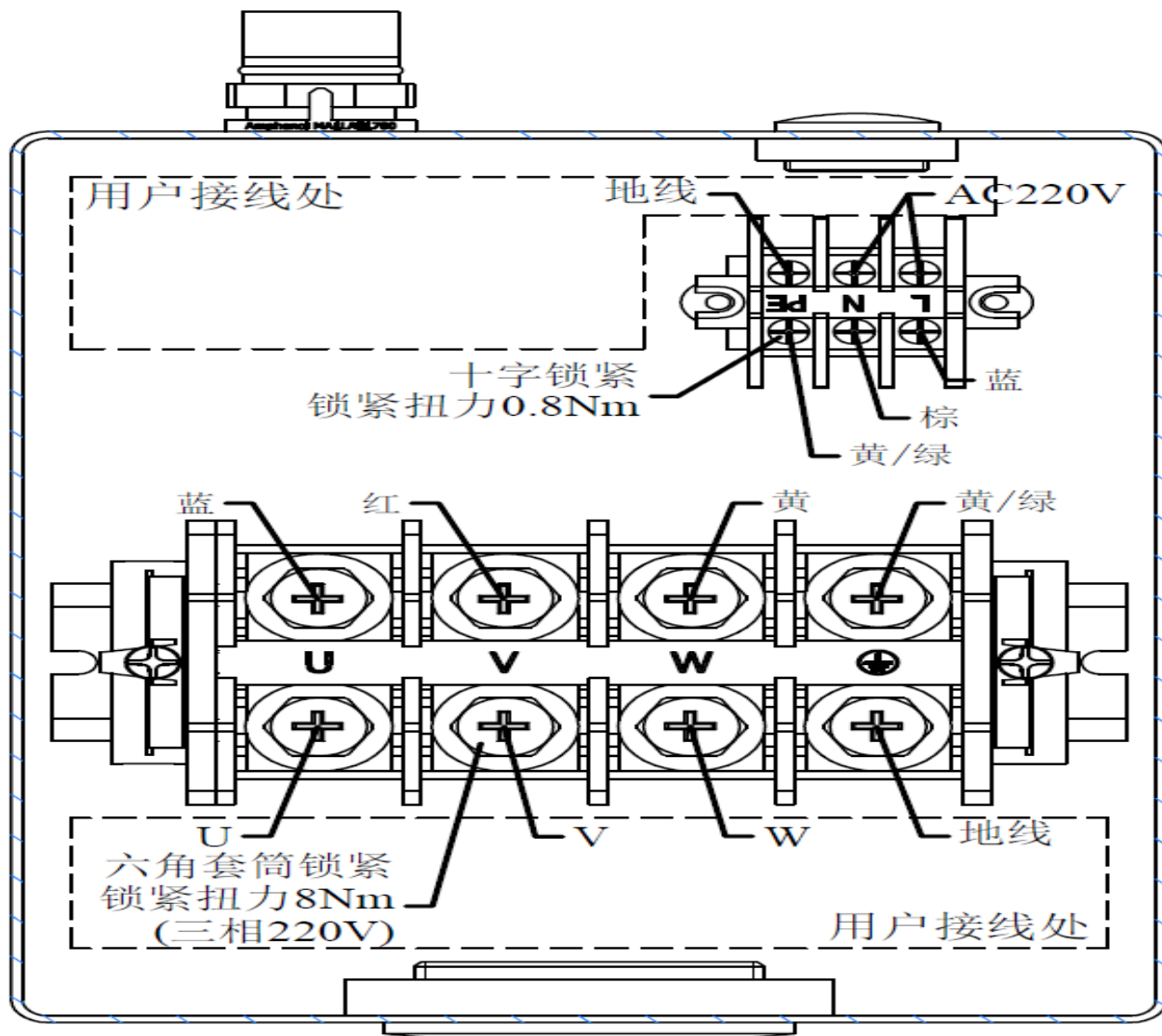
## Wiring Connection Method for 10 Series 380V Terminal Box



Signal Aviation Plug(Resolver Transformer)  
-10 series-380V

PIN	FUNCTION	COLOR
4	Cosine-(S1)	Blue
5	Sine+(S4)	Red
6	Sine-(S2)	Black
7	+(R1)	Red White
8	KTY84-	Yellow
9	KTY84+	Yellow
10	-(R2)	Yellow White
14	Cosine+(S3)	Yellow
15	Shield <sup>1</sup>	Yellow

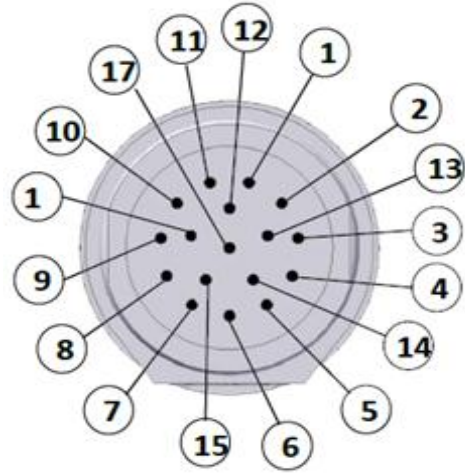
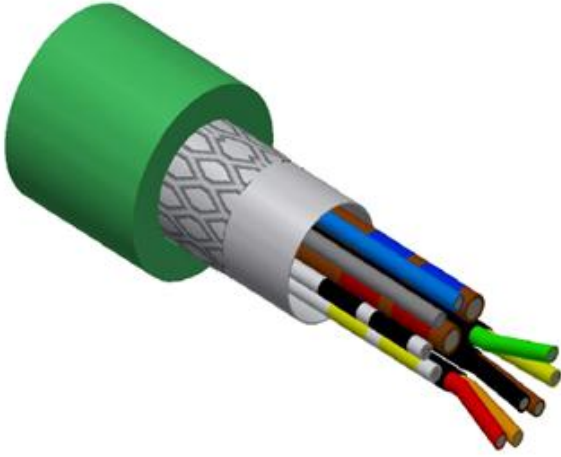
## Wiring Connection Method for 10 Series 220V Terminal Box



Signal Aviation Plug(Resolver Transformer)		- 10 series-220V
PIN	FUNCTION	COLOR
4	Cosine-(S1)	Blue
5	Sine+(S4)	Red
6	Sine-(S2)	Black
7	+(R1)	Red White
8	KTY84-	Yellow
9	KTY84+	Yellow
10	-(R2)	Yellow White
14	Cosine+(S3)	Yellow
15	Shield	Yellow

# Encoder Wiring Connection Method for Aviation Connector Motors

## Encoder Resolver TS2640 /TS2620 Connection Method



### ENCODER RESOLVER CONNECTION FOR MOTOR SIDE (RESOLVER TS2640 TS2620)

PIN	FUNCTION
4	Cosine-(S1)
5	Sine+(S4)
6	Sine-(S2)
7	+(R1)
8	KTY84-
9	KTY84+
10	-(R2)
14	Cosine+(S3)
15	Shield

## Encoder Wiring Connection Method for Aviation Connector Motors

### SICK Encoder Connection Method

ENCODER WIRING CONNECTION	
PIN	FUNCTION
1	A
2	A-
3	Data
7	0V
8	KTY84-
9	KTY84+
10	+8V
11	B
12	B-
13	Data-
15	Shield

## Encoder Wiring Connection Method for Aviation Connector Motors

### EQN1325 Encoder Connection Method

EQN1325 ENCODER CONNECTION	
PIN	FUNCTION
1	A
2	A-
3	Data
5	Clock
7	0V
8	KTY84-
9	KTY84+
10	5V
11	B
12	B-
13	Data-
14	Clock-
15	0V Sensor
16	5V Sensor

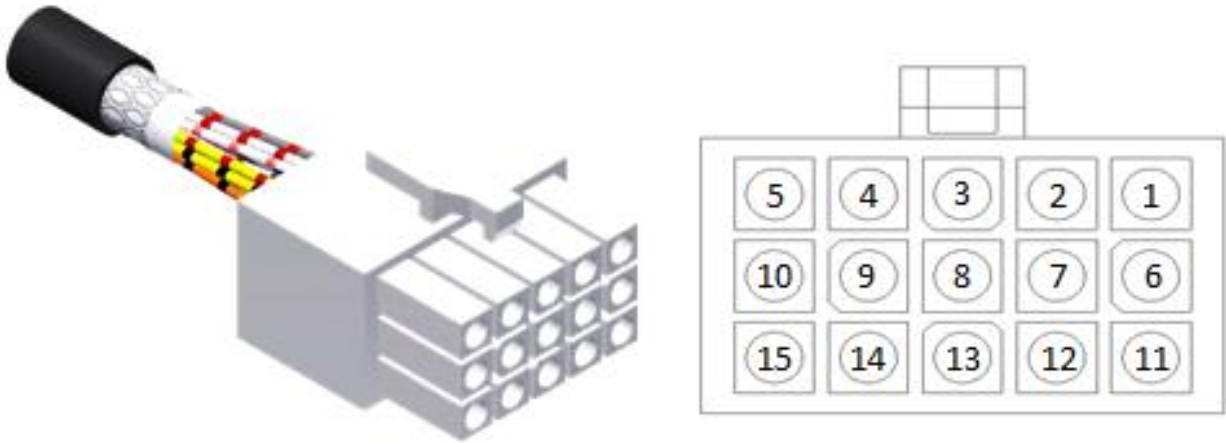
## Encoder Wiring Connection Method for Aviation Connector Motors

### ERN1387 Encoder Connection Method

ERN1387 ENCODER CONNECTION

PIN	FUNCTION
1	A
2	A-
3	R
4	D-
5	C
6	C-
7	0V
8	KTY84-
9	KTY84+
10	5V
11	B
12	B-
13	R-
14	D-
15	0V Sensor
16	5V Sensor

## Encoder Wiring Connection Method of Flexible Connection Motors for KUT Series 02 03 04 Motors



### INCREMENTAL ENCODER CONNECTION FOR MOTOR SIDE (TAMAGAVA TS5214)

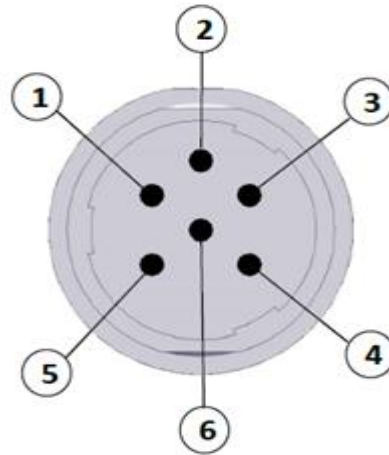
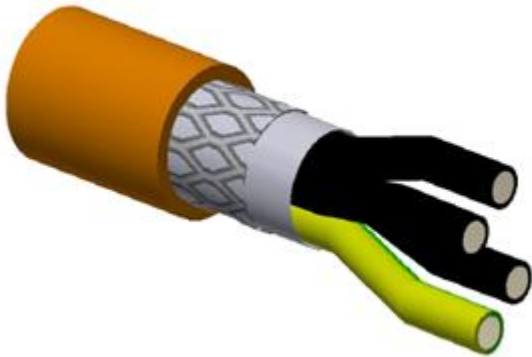
PIN	FUNCTION	PIN	FUNCTION	PIN	FUNCTION
1	A	6		11	B
2	A-	7	GND	12	B-
3	Z	8	KTY84-	13	Z-
4		9	KTY84+	14	
5		10	DC+5V	15	Shield

### ABSOLUTE ENCODER CONNECTION MOTOR SIDE(TAMAGAVA TS5669N140)

PIN	FUNCTION	PIN	FUNCTION	PIN	FUNCTION
1	Vcc	6	GND2	11	
2	GND1	7		12	
3	SD	8		13	
4	SD1	9		14	
5	VB	10		15	

# Power Wiring Connection Method for Aviation Connector Motors

## KUT Series 06 &08 Power Connection Method

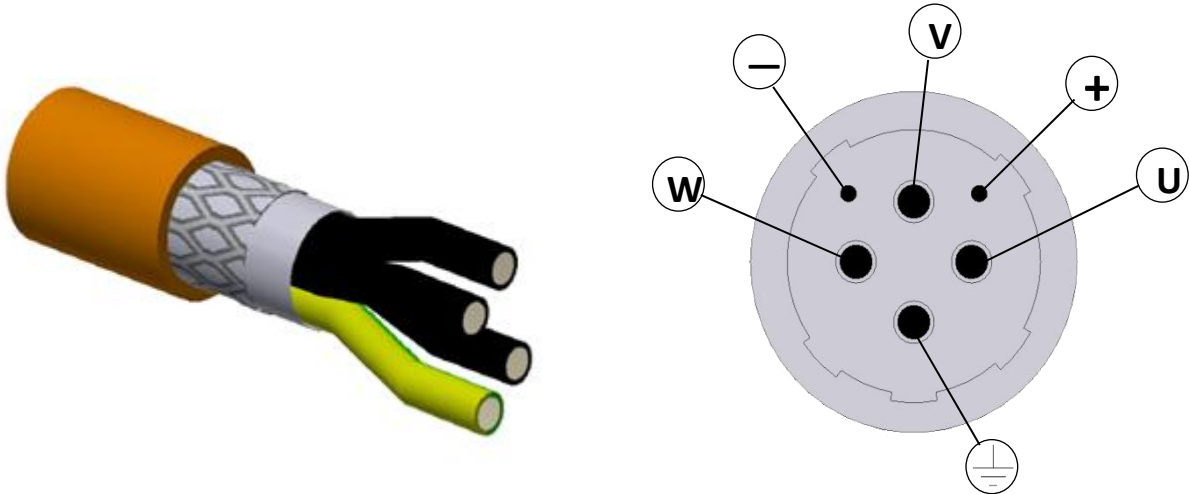



POWER CONNECTION	
PIN	FUNCTION
1	U
2	V
3	GND
4	Brake DC24V
5	Brake DC0V
6	W



# Power Wiring Connection Method for Aviation Connector Motors

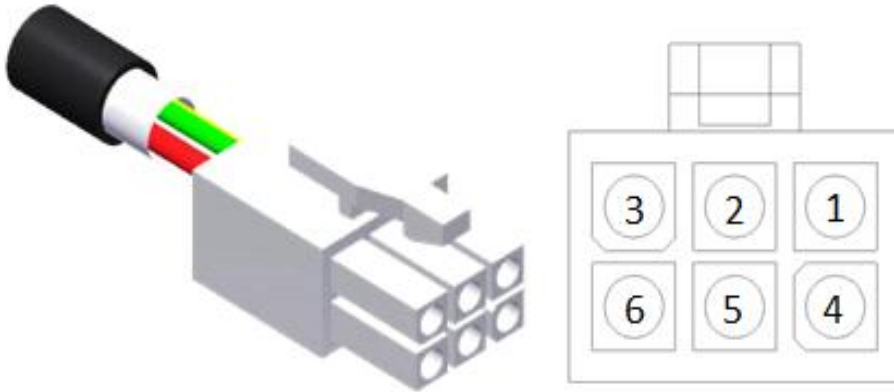
## KUT Series 10 Power Connection Method



POWER CONNECTION	
PIN	FUNCTION
U	U
V	V
W	W
	Ground wire
+	Brake DC24V
-	Brake DC0V

# Power Wiring Connection Method of Flexible Connection Motors for KUT Series 02 03 04 Motors

## Power Connection Method



POWER CONNECTION	
PIN	FUNCTION
1	U
2	V
3	W
4	PE
5	
6	

# Declaration of Conformity

## Declaration of conformity to the following standards or directives:

- Standards:

EN 60034-1:2010+AC:2010,  
EN 61000-6-1:2007,  
EN 61000-6-3:2007+A1:2011+AC:2012,  
EN 61000-3-2:2014, EN 61000-3-3:2013



- Related to CE directives:

2014/35/EU (Low Voltage)  
2014/30/EU (Electromagnetic Compatibility)

### The Low Voltage Directive:

The purpose of this Directive is to ensure that electrical equipment on the market fulfils the requirements providing for a high level of protection of health and safety of persons, and of domestic animals and property, while guaranteeing the functioning of the internal market. The directive applies to all electrical equipment designed for use with a voltage rating between 50 and 1000 V for alternating current or between 75 and 1500 V for direct current (with exceptions listed in 2014/35/EU Annex II).

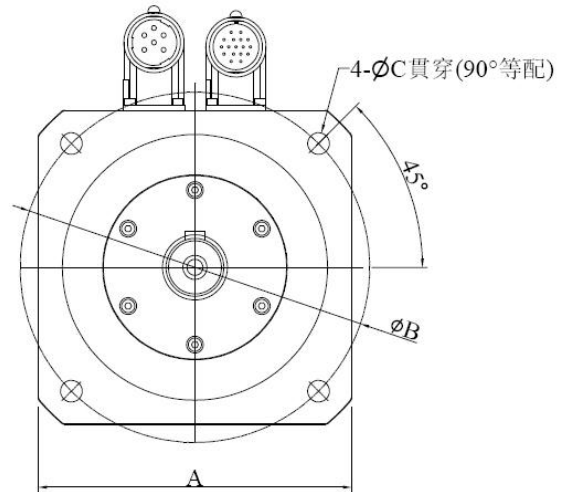
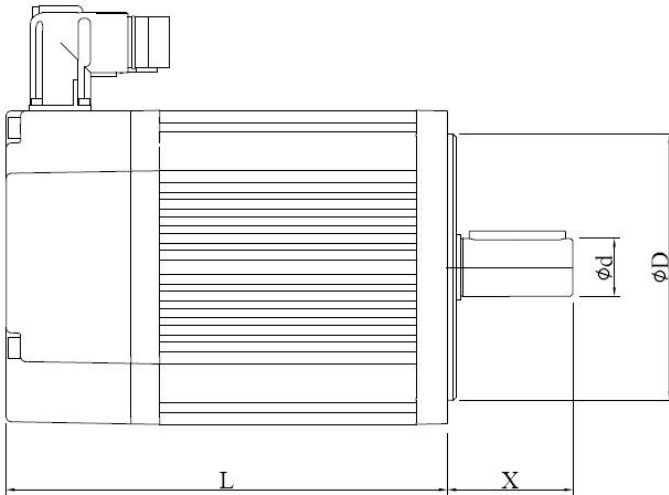
### The Electromagnetic Compatibility Directive:

This Directive regulates the electromagnetic compatibility of equipment. It aims to ensure the functioning of the internal market by requiring equipment to comply with an adequate level of electromagnetic compatibility. Electromagnetic compatibility means the ability of equipment to function satisfactorily in its electromagnetic environment without introducing intolerable electromagnetic disturbances to other equipment in that environment.



# 嵐天自動化股份有限公司 iMaku Automation System Co., Ltd.

[www.imaku.com.tw](http://www.imaku.com.tw)



## 嵐天自動化股份有限公司 iMaku Automation System Co., Ltd.

Address: 1F., No.31-1, Gongyequ 18th Rd., Nantun Dist.,  
Taichung City 408, Taiwan.

台灣總部

台中市南屯區寶山里工業區18路31-1號1樓

連絡人: 范揚昇

連絡手機: 0937583280

電話: +886 4 2335 0711

傳真: +886 4 2335 0986

e-mail: [sales@imaku.com.tw](mailto:sales@imaku.com.tw)

網站: [www.imaku.com.tw](http://www.imaku.com.tw)

Contact: Jourdan Fan

E-mail: [sales@imaku.com.tw](mailto:sales@imaku.com.tw)

Mobile: +886 937583280