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2019년 4월

모든 사양 및 치수는 제품의 성능 향상을 위하여 예고 없이 변경될 수 있습니다.
의료 및 군사 등의 생명과 관련되는 분야에는 사용할 수 없습니다.

경고

사용자 설명서를 주의 깊게 읽어 주십시오. 경고사항을 위반할 경우에는 심각하고 중대한 사고를 유발할 수 있으며 인명이나 제품 또는 시스템에 심각하고 중대한 손실 또는 재해를 유발할 수 있습니다.

설치
- 절대로 물, 부식성 가스, 발화성 가스, 또는 다른 인화성 물질이 근접한 환경에 설치하거나 동작시키지 마시기 바랍니다.

결선
- 접지(FG 혹은 G)는 반드시 3종 접지 이상으로 실시해 주시기 바랍니다.
- 모터의 출력단자(U, V, W)에 3상(또는 단상) 입력전원을 연결하지 마시기 바랍니다.

동작
- 모터가 구동 중에는 모터의 가동부에 절대로 손대지 마시기 바랍니다.
- 모터를 프레임이나 베이스에 단단히 고정하지 않은 상태에서 절대로 모터를 구동하지 마시기 바랍니다.
- 모터에 부착물을 적재하기 전에 모터 단독으로 동작시켜 의도한 동작이 제대로 이루어 지는지 확인해 주시기 바랍니다.
- 모터에 부착물을 적재한 후에는 제어 정수를 적절히 재 설정해 주시기 바랍니다.
- 모터를 동작시키기 전에 비상정지 기능이 정상적으로 동작하는지 반드시 확인한 후 모터를 동작시키기 바랍니다.

보수와 검사
- 전원이 공급된 상태에서 모터나 서보 드라이버의 덮개를 풀어 벗기지 마십시오.
- 서보 드라이버의 전원을 차단한 후 5분 이내에 전원 단자를 만지지 마십시오.
- 서보 드라이버를 분해하지 마시기 바랍니다.
- 모터를 분해하지 마시기 바랍니다.
- 전원이 인가된 상태에서 커넥터나 전선의 연결을 바꾸지 마시기 바랍니다.

리니어 모터 컴포넌트

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JUSTEK Linear Motion Technology

공통 사양

코일 형번 구성

JTK C - G 30 06 A

JTK 시리즈

모터형식
C : 철심형
L : 공심형
W : 양측식
A : 원호형

G : 코일

시리즈
철심형 : 30, 56, A0 시리즈
공심형 : 15, 24, 36, 51 시리즈
양측식 : 45, 74 시리즈
원호형 : 30, 42, 50, 61, 65, 76 시리즈

코일길이 (x10mm)

코일종류

* 공냉식, 수냉식 모터에 대해서는 져스텍에 문의바랍니다.

자석판 형번 구성

JTK C - M 30 180

JTK 시리즈

모터형식
C : 철심형
L : 공심형
W : 양측식
A : 원호형

M : 자석판

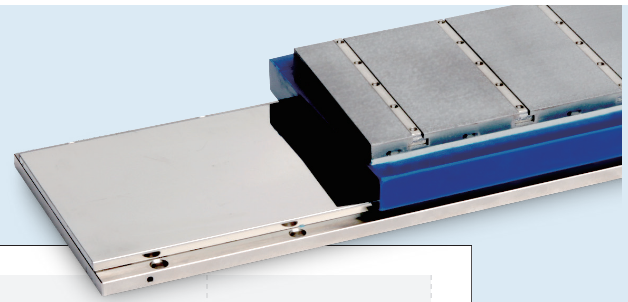
시리즈
철심형 : 30, 56, A0 시리즈
공심형 : 15, 24, 36, 51 시리즈
양측식 : 45, 74 시리즈
원호형 : 30, 42, 50, 61, 65, 76 시리즈

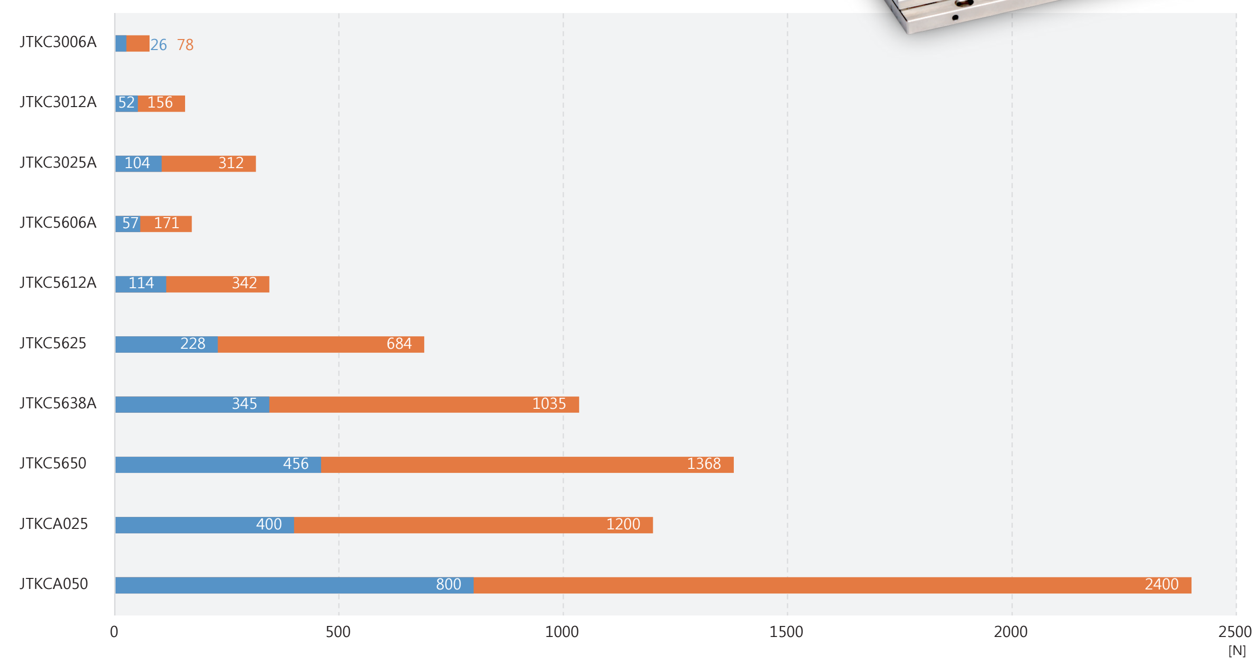
자석판 길이 (mm) : □□□
자석판 각도 (deg) : A□□

목차

JTKC 시리즈

철심형 리니어 모터

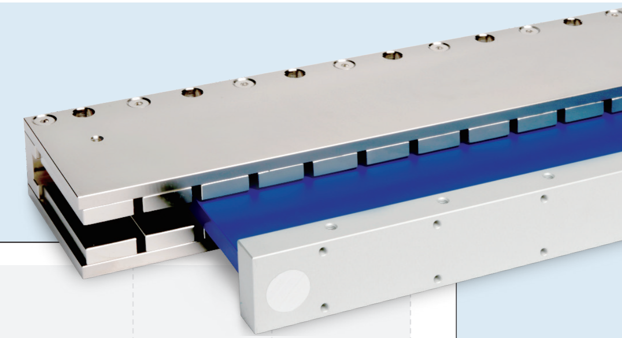


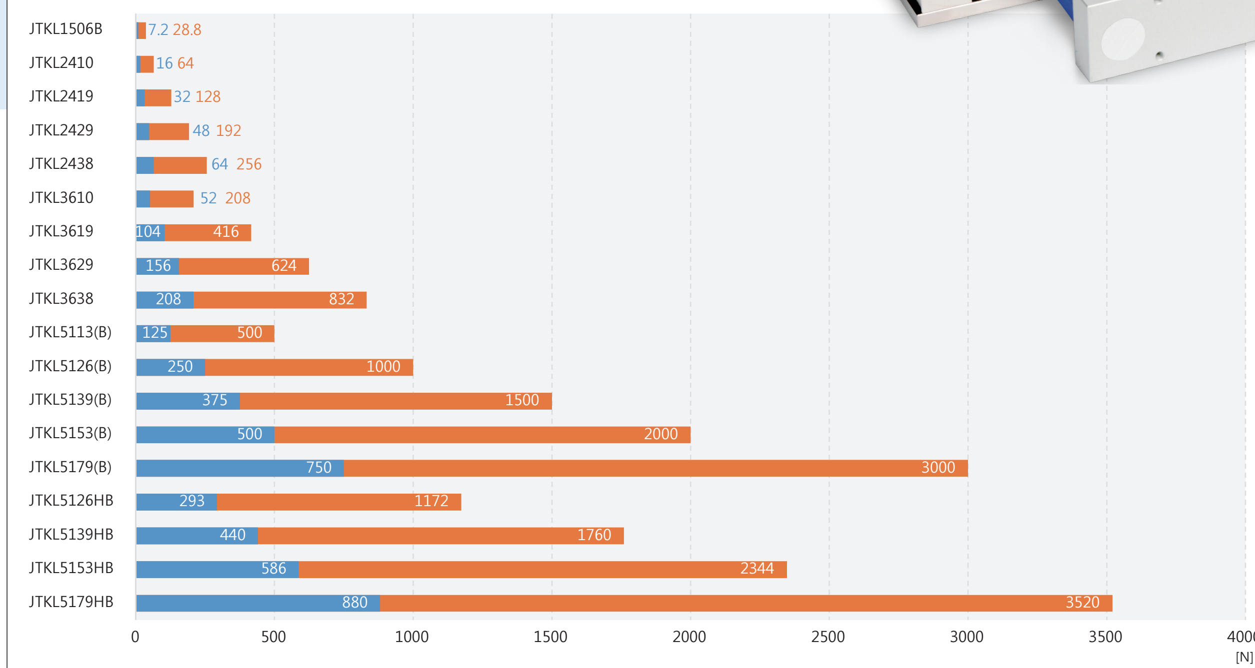


	JTKC3006A	JTKC3012A	JTKC3025A	JTKC5606A	JTKC5612A	JTKC5625	JTKC5638A	JTKC5650	JTKCA025	JTKCA050
최대추력	78	156	312	171	342	684	1035	1368	1200	2400
연속추력	26	52	104	57	114	228	345	456	400	800

JTKL 시리즈

공심형 리니어 모터

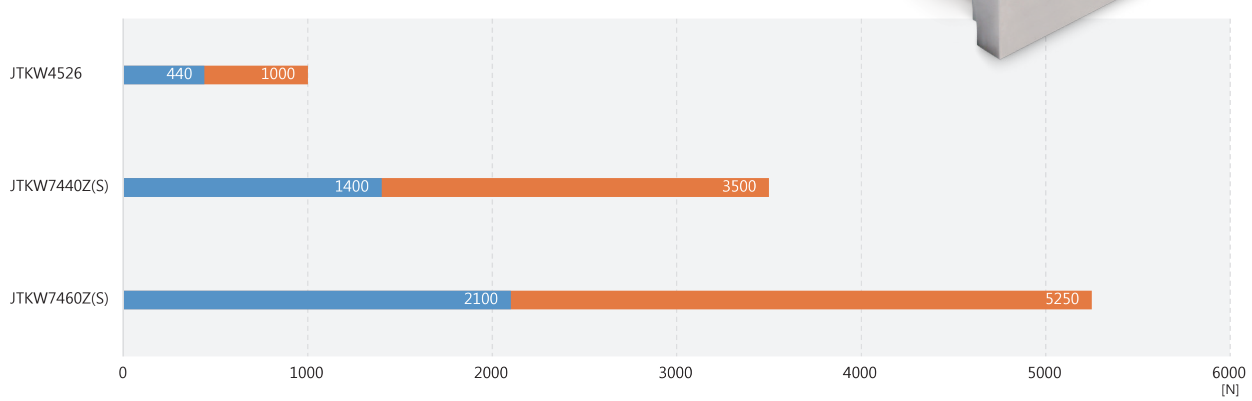




	JTKL1506B	JTKL2410	JTKL2419	JTKL2429	JTKL2438	JTKL3610	JTKL3619	JTKL3629	JTKL3638
최대추력	28.8	64	128	192	256	208	416	624	832
연속추력	7.2	16	32	48	64	52	104	156	208
	JTKL5113(B)	JTKL5126(B)	JTKL5139(B)	JTKL5153(B)	JTKL5179(B)	JTKL5126HB	JTKL5139HB	JTKL5153HB	JTKL5179HB
최대추력	500	1000	1500	2000	3000	1172	1760	2344	3520
연속추력	125	250	375	500	750	293	440	586	880

JTKW 시리즈

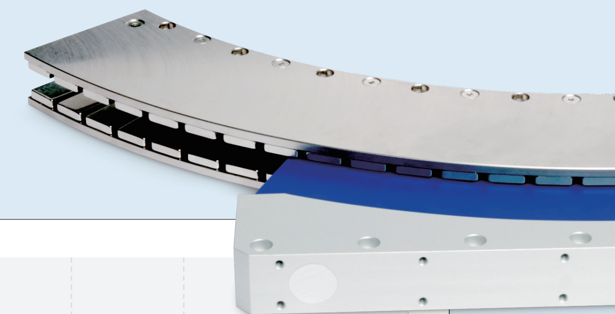
양측식 리니어 모터

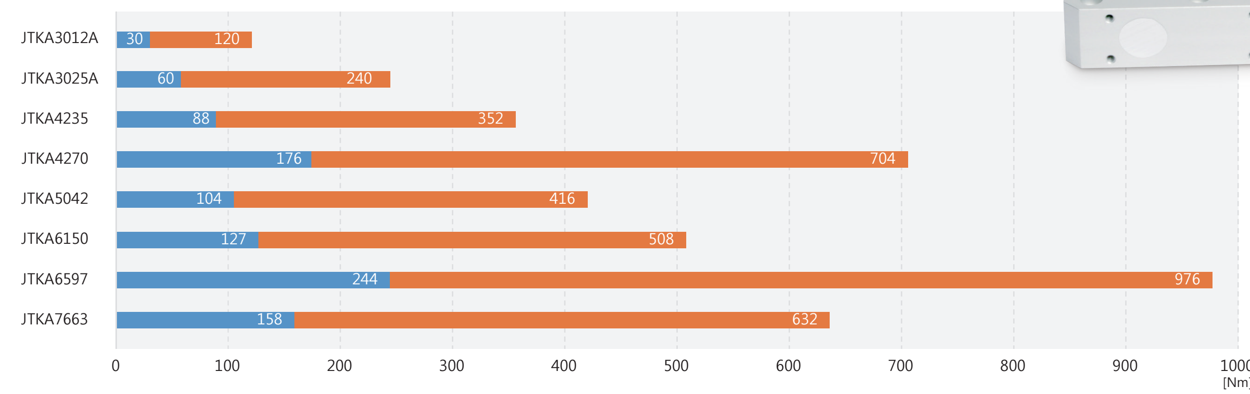


	JTKW4526	JTKW7440Z(S)	JTKW7460Z(S)
최대추력	1000	3500	5250
연속추력	440	1400	2100

JTKA 시리즈

원호형 리니어 모터

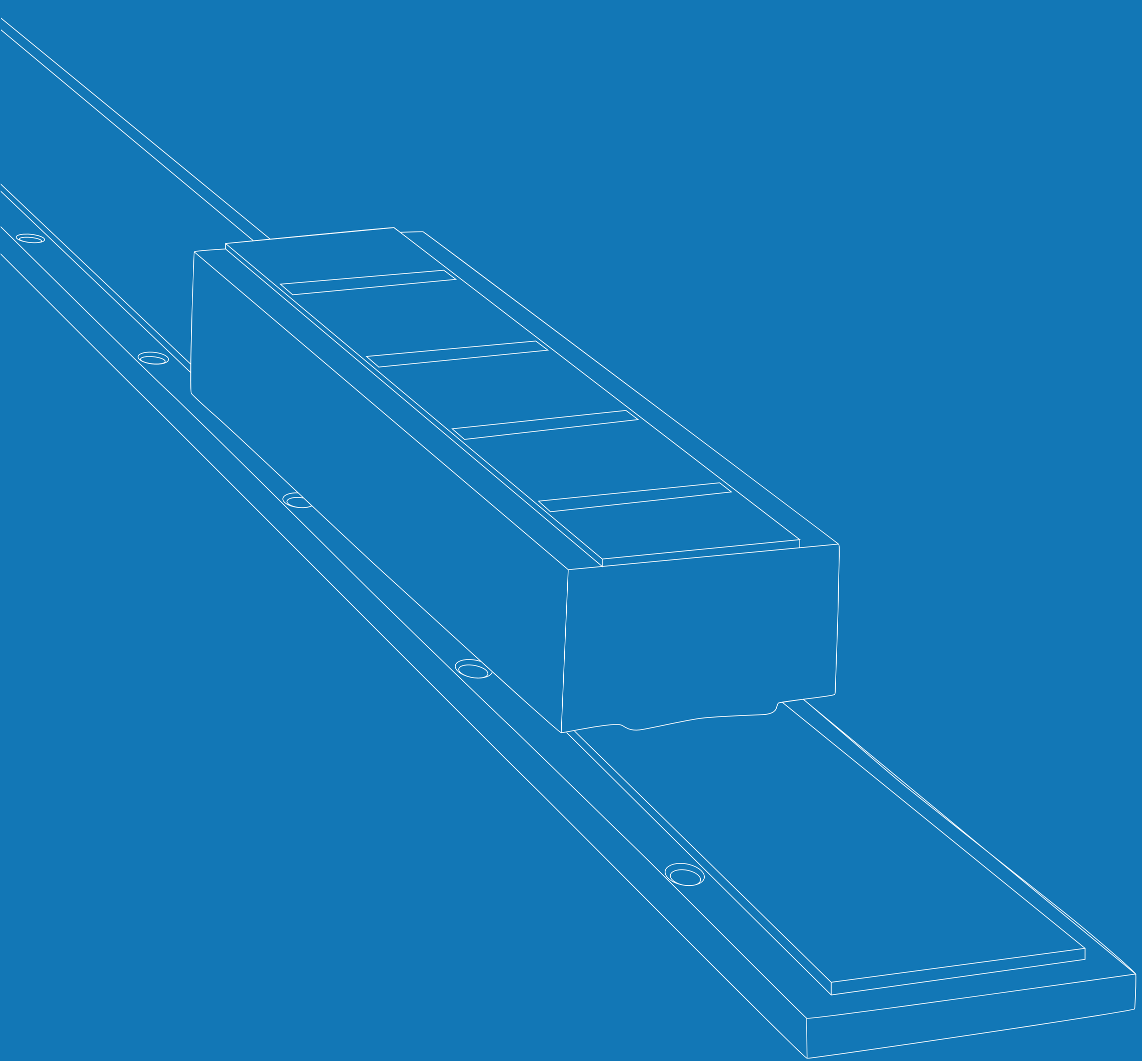




	JTKA3012A	JTKA3025A	JTKA4235	JTKA4270	JTKA5042	JTKA6150	JTKA6597	JTKA7663
최대토크	120	240	352	704	416	508	976	632
연속토크	30	60	88	176	104	127	244	158

철심형

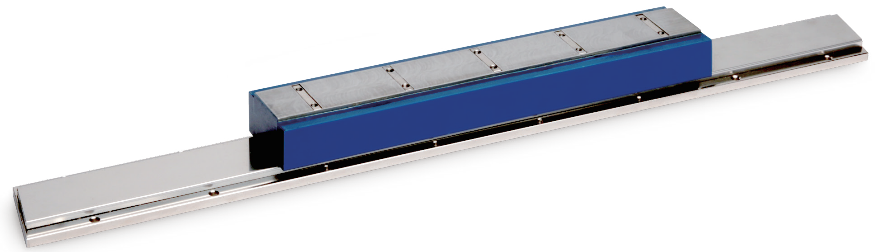
져스텍 리니어 모터



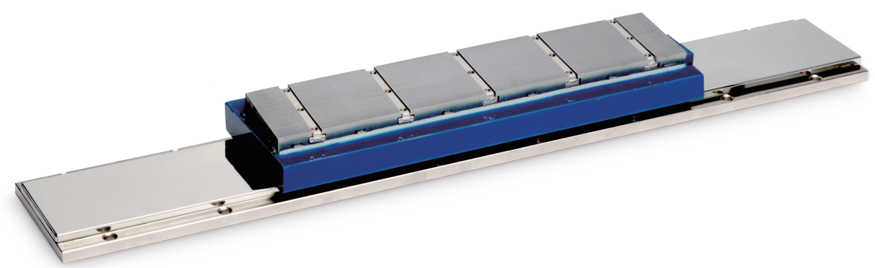
공통 사양

절연저항	10MΩ 이상 (DC 500V)
내전압	AC 1800V, 15mA, 1초
동작습도	20 ~ 80% RH (결로나 서리가 없을 것)
동작온도	0 ~ 40°C

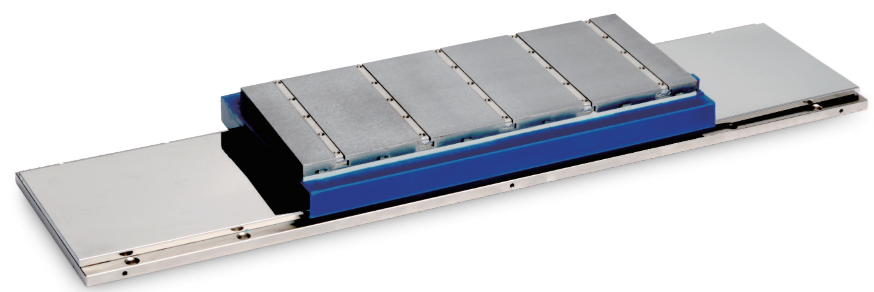
JTKC30A 시리즈



JTKC56(A) 시리즈



JTKCA0 시리즈



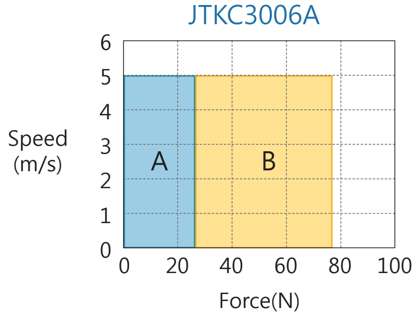
제품 사양

C30A

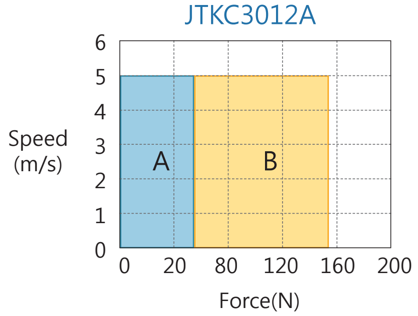
항목	기호	단위	형번 JTKC3006A	JTKC3012A	JTKC3025A
연속 추력	F_c	N	26	52	104
최대 추력	F_p	N	78	156	312
연속 전류	$I_c@T_{max}$	A_{rms}	1	2	4
최대 전류	I_p	A_{rms}	3	6	12
추력 상수	K_f	N/A_{rms}	26.3	26.3	26.3
전기 시정수	T_e	ms	4.1	4.1	3.8
상간 역기전력 상수	K_e	$V_{rms}/m/s$	15.2	15.2	15.2
상간 저항(25℃)	R_s	Ω	5.9	3.0	1.6
상간 인덕턴스	L_s	mH	24.4	12.2	6.1
모터 상수	K_M	$N/\sqrt{W}$	7.8	11.0	15.0
코일 질량	M_C	kg	0.4	0.8	1.6
최대 속도	V_{max}	m/s	5	5	5
자석 피치 (N극에서 S극)	-	mm	15	15	15
정격 출력	P_c	W	132	263	526

A : 연속 영역
B : 단속 영역

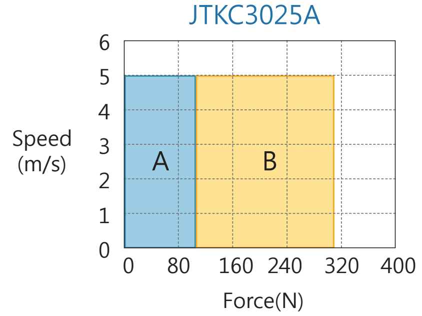
JTKC3006A



JTKC3012A



JTKC3025A



· 주의 : 입력 전압이 3상 AC220V의 경우입니다.

외형도

C30A

코일 : JTKC-G30□□A

Unit : mm

Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Mating

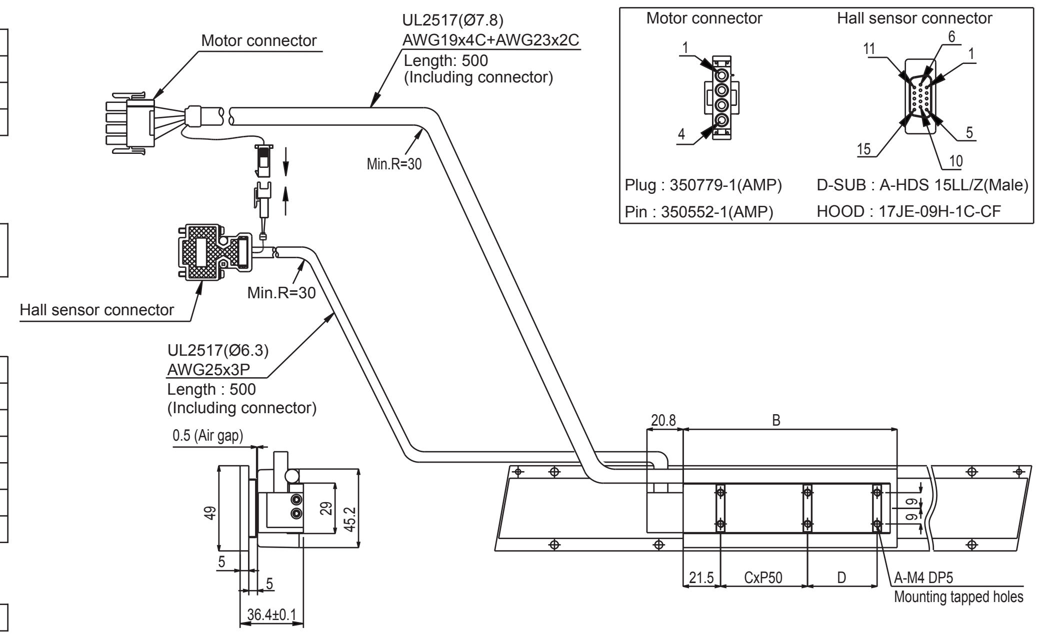
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

Hall sensor terminal connection

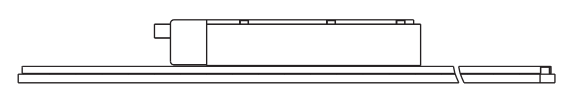
04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

D-SUB : A-HDF 15LL/Z(Female)



No.	Coil assembly	A	B	C	D	Weight[kg]
1	JTKC-G3006A	4	63	0	30	0.4
2	JTKC-G3012A	6	123	1	40	0.8
3	JTKC-G3025A	10	244.5	4	0	1.6

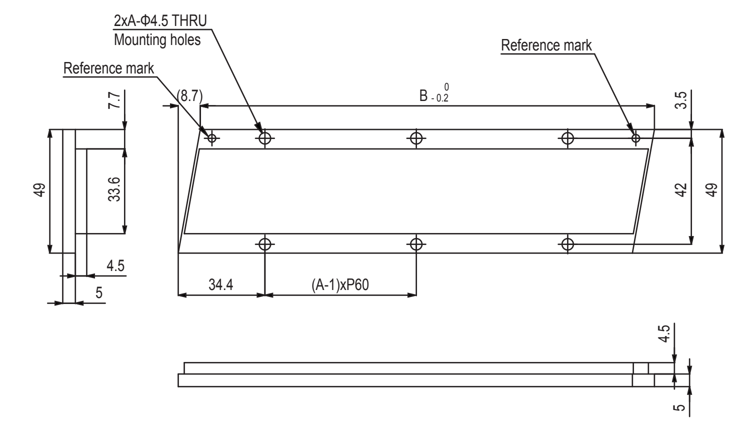


These drawings refer to 'JTKC-G3012A'

자석판 : JTKC-M30□□□

Unit : mm

No.	Magnet assembly	A	B	Weight[kg]
1	JTKC-M30180	3	180	0.55
2	JTKC-M30240	4	240	0.73
3	JTKC-M30300	5	300	0.91
4	JTKC-M30480	8	480	1.46



These drawings refer to 'JTKC-M30180'

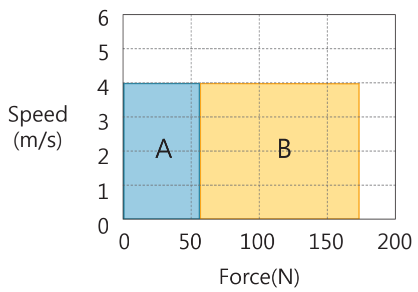
C56(A)

제품 사양

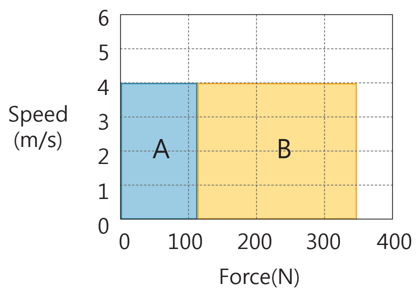
항목	기호	단위	형번				
			JTKC5606A	JTKC5612A	JTKC5625	JTKC5638A	JTKC5650
연속 추력	F_c	N	57	114	228	345	456
최대 추력	F_p	N	171	342	684	1035	1368
연속 전류	I_c@T_{max}	A_{rms}	1.2	2.4	3.6	7.2	7.2
최대 전류	I_p	A_{rms}	3.6	7.2	10.8	21.6	21.6
추력 상수	K_f	N/A_{rms}	47.9	47.9	63.9	47.9	63.9
전기 시정수	T_e	ms	4.6	4.3	4.3	4.1	4.3
상간 역기전력 상수	K_e	V_{rms}/m/s	27.7	27.7	36.9	27.7	36.9
상간 저항(25℃)	R_s	Ω	9.0	4.7	4.5	1.7	2.3
상간 인덕턴스	L_s	mH	41.7	20.1	19.3	6.8	9.7
모터 상수	K_M	N/$\sqrt{W}$	11.5	16.0	21.8	27.0	30.8
코일 질량	M_C	kg	0.7	1.4	2.5	3.8	5.0
최대 속도	V_{max}	m/s	4	4	3	4	3
자석 피치 (N극에서 S극)	-	mm	15	15	15	15	15
정격 출력	P_c	W	230	460	690	1380	1380

A : 연속 영역
B : 단속 영역

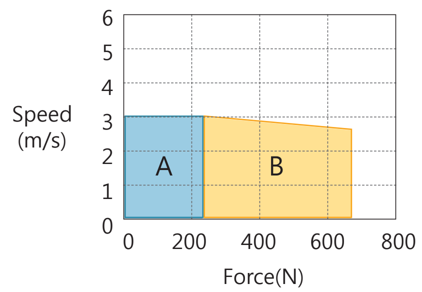
JTKC5606A



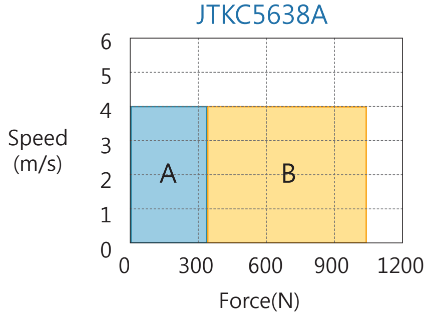
JTKC5612A



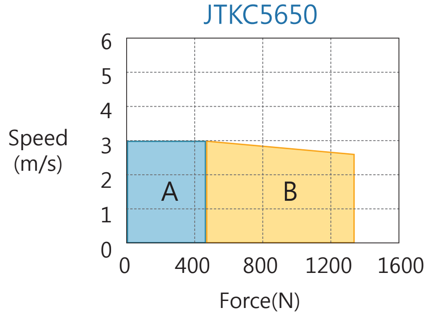
JTKC5625



JTKC5638A



JTKC5650



· 주의 : 입력 전압이 3상 AC220V의 경우입니다.

C56(A)

외형도

코일 : JTKC-G56□□(A)

Unit : mm

Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Mating

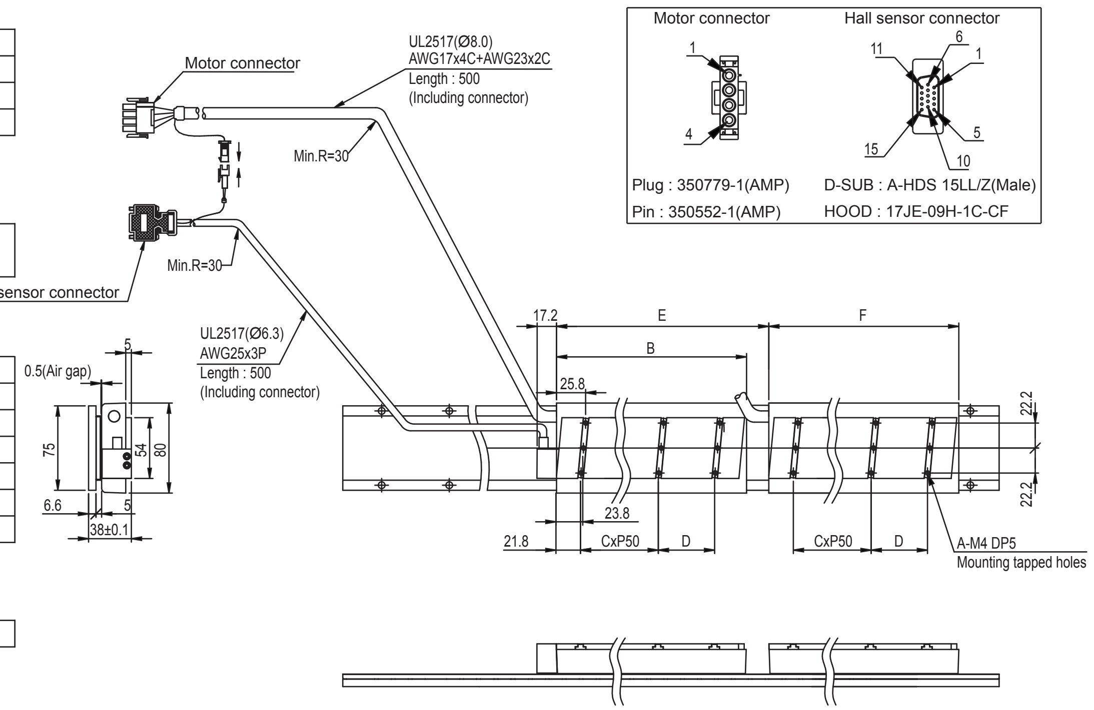
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

D-SUB : A-HDF 15LL/Z(Female)



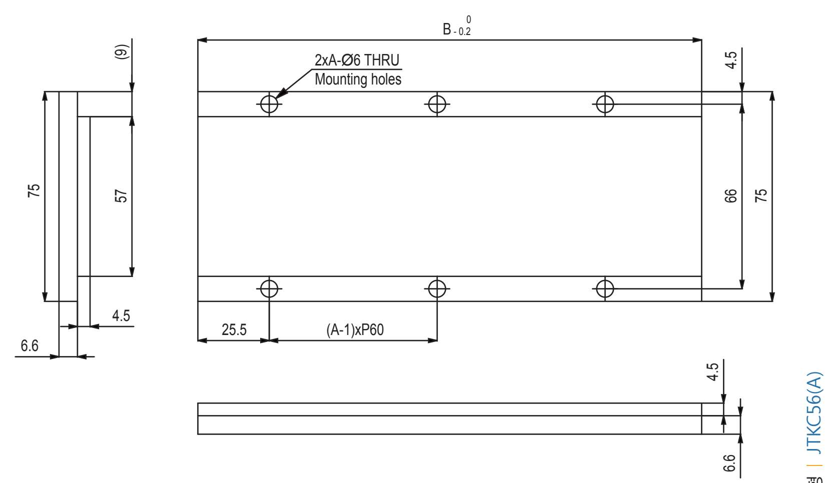
These drawings refer to 'JTKC-G5650'

No.	Coil assembly	A	B	C	D	E	F	Weight[kg]	Cable
1	JTKC-G5606A	6	65.5	0	29.5	N/A	N/A	0.7	UL2517(Ø7.8) AWG19x4C
2	JTKC-G5612A	9	128	1	40	N/A	N/A	1.4	UL2517(Ø7.8) AWG19x4C
3	JTKC-G5625	15	250	4	N/A	N/A	N/A	2.5	UL2517(Ø7.8) AWG19x4C
4	JTKC-G5638A	24	190	3	N/A	210	=B	3.8	UL2517(Ø8.0) AWG17x4C
5	JTKC-G5650	30	250	4	N/A	270	=B	5.0	UL2517(Ø8.0) AWG17x4C

자석판 : JTKC-M56□□□

Unit : mm

No.	Magnet assembly	A	B	Weight[kg]
1	JTKC-M56180	3	180	0.93
2	JTKC-M56240	4	240	1.24
3	JTKC-M56300	5	300	1.55
4	JTKC-M56480	8	480	2.48



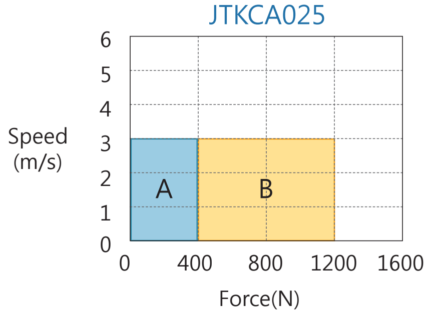
These drawings refer to 'JTKC-M56180'

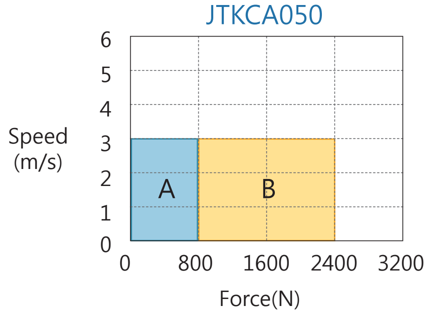
제품 사양

CA0

항목	기호	단위	형번 JTKCA025	JTKCA050
연속 추력	F_c	N	400	800
최대 추력	F_p	N	1200	2400
연속 전류	I_c@T_{max}	A_{rms}	6	12
최대 전류	I_p	A_{rms}	18	36
추력 상수	K_f	N/A_{rms}	66.7	66.7
전기 시정수	T_e	ms	4.3	4.5
상간 역기전력 상수	K_e	V_{rms}/m/s	38.5	38.5
상간 저항(25°C)	R_s	Ω	1.9	0.9
상간 인덕턴스	L_s	mH	8.1	4.1
모터 상수	K_M	N/$\sqrt{W}$	35.0	50.8
코일 질량	M_C	kg	4.3	8.6
최대 속도	V_{max}	m/s	3	3
자석 피치 (N극에서 S극)	-	mm	15	15
정격 출력	P_c	W	1200	2400

A : 연속 영역
B : 단속 영역





· 주의 : 입력 전압이 3상 AC220V의 경우입니다.

외형도

CA0

코일 : JTKC-GA0□□

Unit : mm

Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Mating

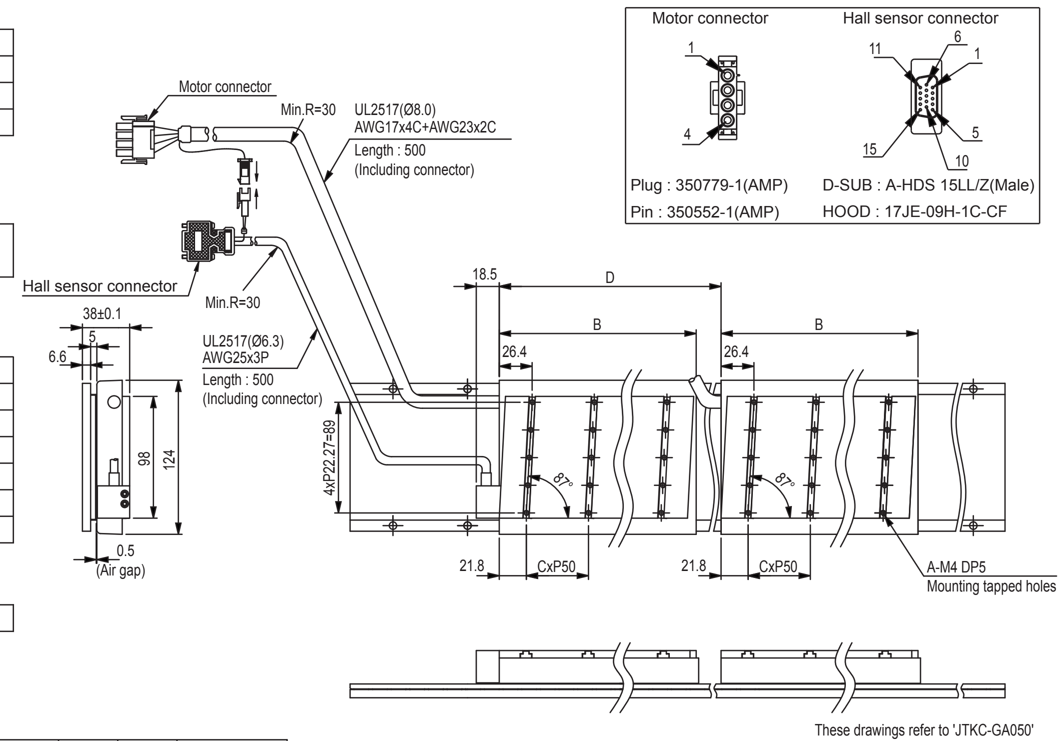
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

D-SUB : A-HDF 15LL/Z(Female)

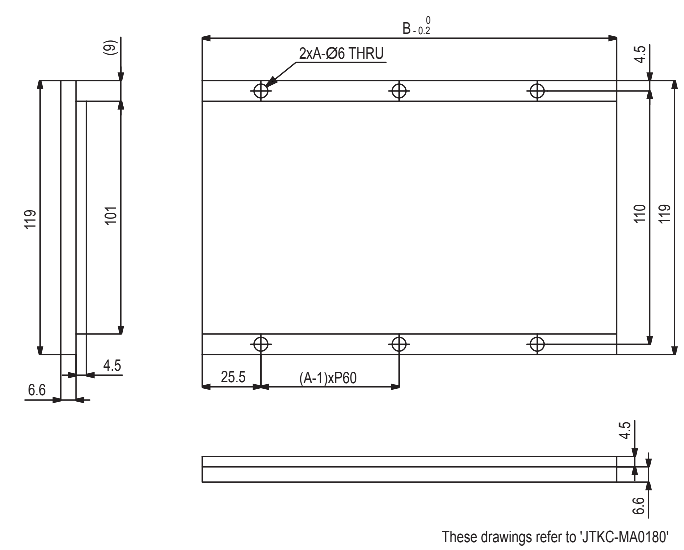


No.	Coil assembly	A	B	C	D	Weight[kg]
1	JTKC-GA025	25	250	4	N/A	4.3
2	JTKC-GA050	50	250	4	300	8.6

자석판 : JTKC-MA0□□□

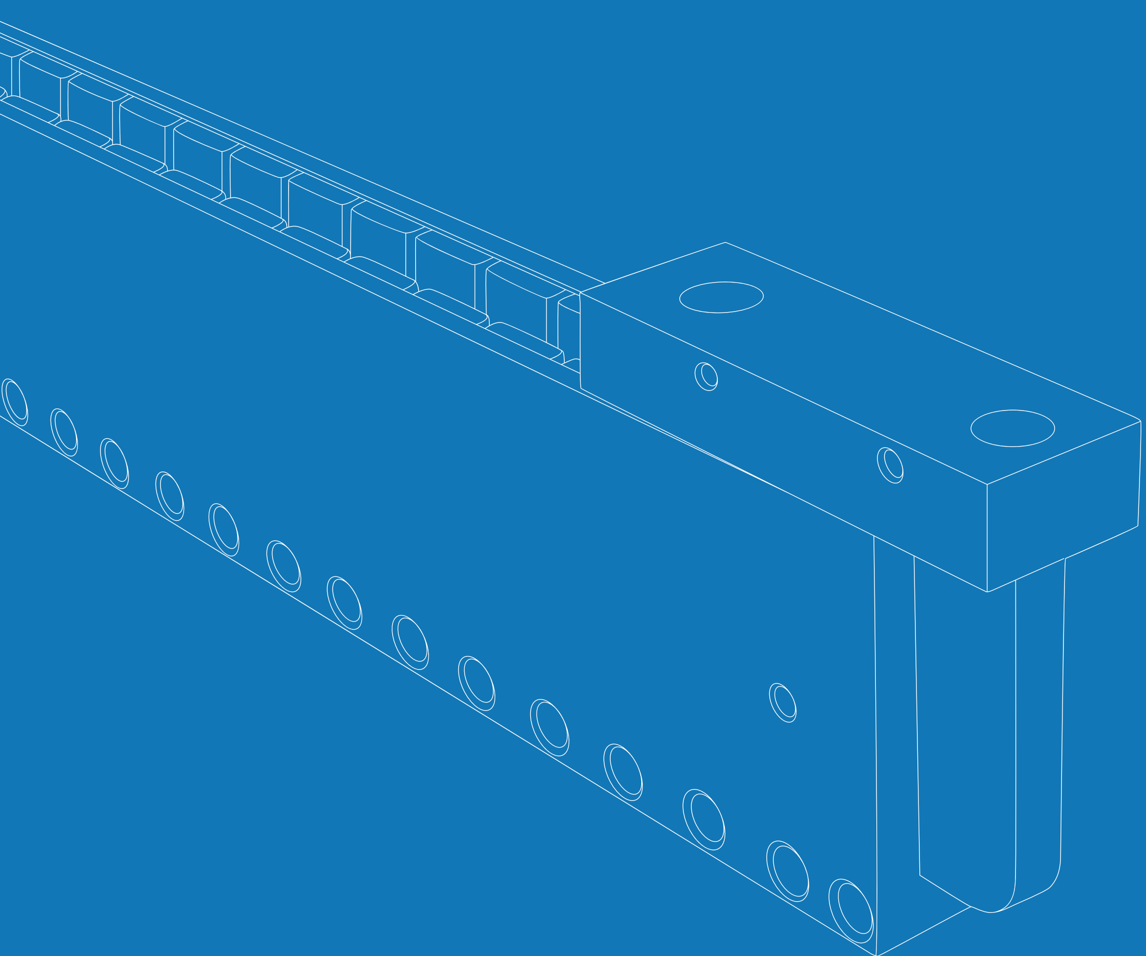
Unit : mm

No.	Magnet assembly	A	B	Weight[kg]
1	JTKC-MA0180	3	180	1.5
2	JTKC-MA0240	4	240	2.0
3	JTKC-MA0300	5	300	2.5
4	JTKC-MA0480	8	480	4.1



공심형

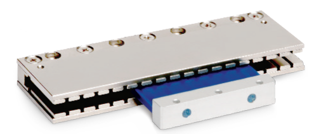
져스텍 리니어 모터



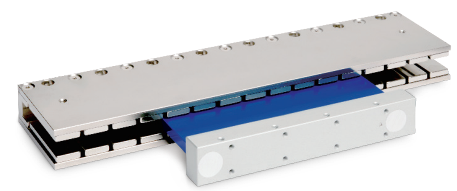
공통 사양

절연저항	10MΩ 이상 (DC 500V)
내전압	AC 1800V, 15mA, 1초
동작습도	20 ~ 80% RH (결로나 서리가 없을 것)
동작온도	0 ~ 40°C

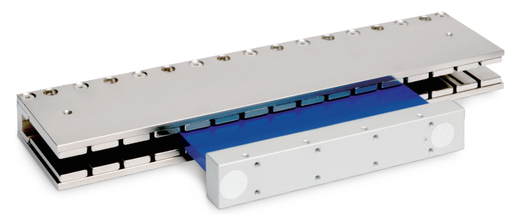
JTKL15B 시리즈



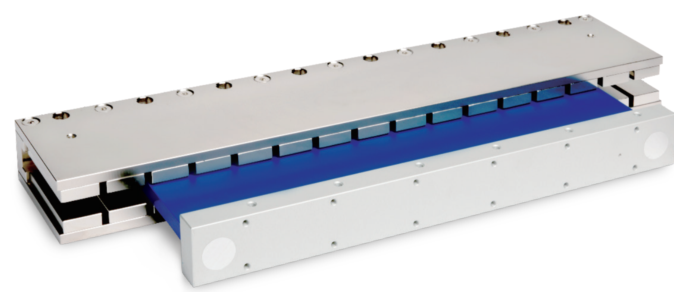
JTKL24 시리즈



JTKL36 시리즈



JTKL51(B),HB 시리즈

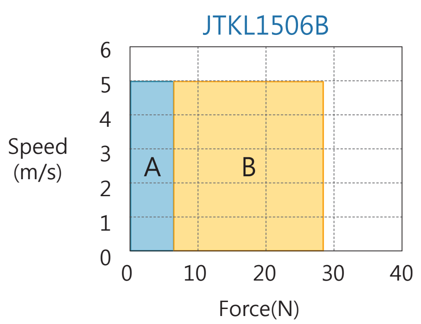


L15B

제품 사양

항목	기호	단위	형번 JTKL1506B
연속 추력	F_c	N	7.2
최대 추력	F_p	N	28.8
연속 전류	$I_c@T_{max}$	A_{rms}	0.8
최대 전류	I_p	A_{rms}	3.2
추력 상수	K_f	N/A_{rms}	9
전기 시정수	T_e	ms	0.2
상간 역기전력 상수	K_e	$V_{rms}/m/s$	5.2
상간 저항(25°C)	R_s	Ω	4
상간 인덕턴스	L_s	mH	0.62
모터 상수	K_M	$N/\sqrt{W}$	3.2
코일 질량	M_C	g	92
최대 속도	V_{max}	m/s	5
자석 피치 (N극에서 S극)	-	mm	8.4
정격 출력	P_c	W	36

A : 연속 영역
B : 단속 영역



· 주의 : 입력 전압이 3상 AC220V의 경우입니다.

L15B

외형도

코일 : JTKL-G15□□B

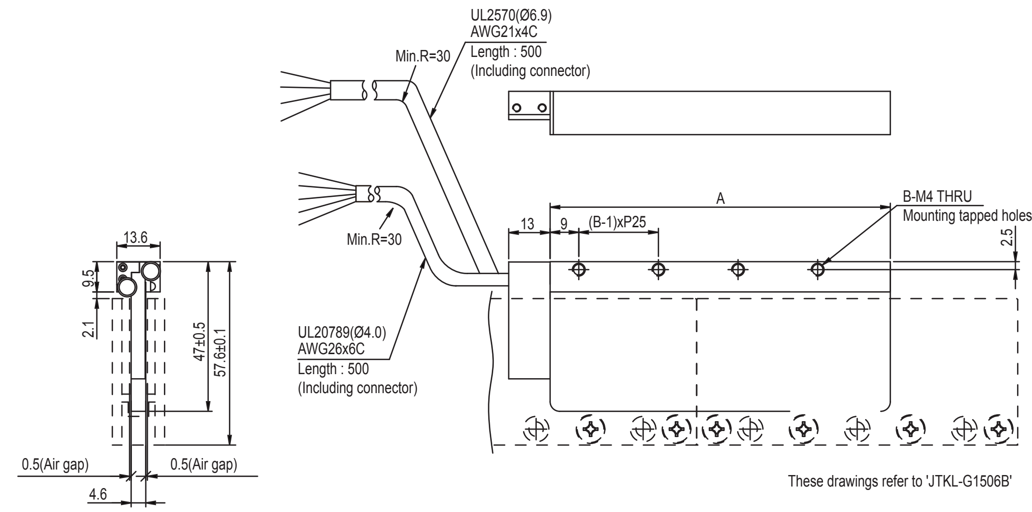
Unit : mm

Motor terminal connection

Phase U	Black
Phase V	White
Phase W	Red
Frame ground	Green

Hall sensor terminal connection

VCC	Red
GND	Black
Hall A	Green
Hall B	Yellow
Hall C	Brown

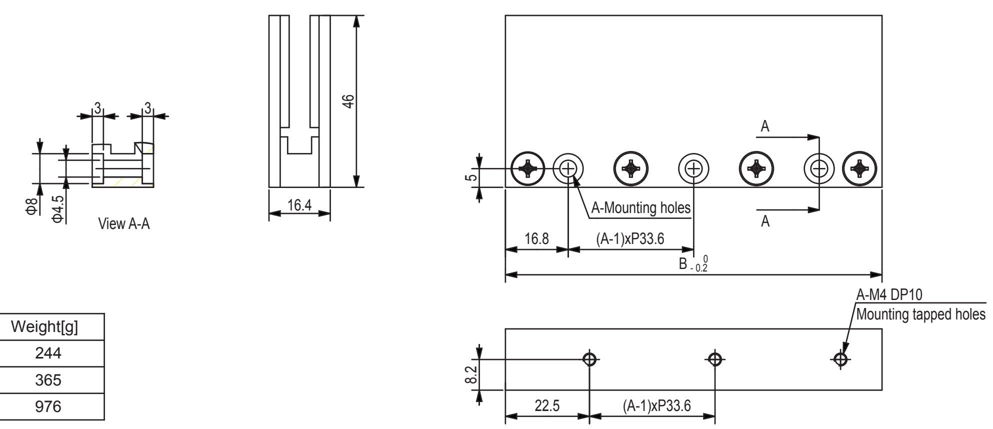


These drawings refer to 'JTKL-G1506B'

No.	Coil assembly	A	B	Weight[g]
1	JTKL-G1506B	69.2	3	91.4

자석판 : JTKL-M15□□□

Unit : mm



No.	Magnet assembly	A	B	Weight[g]
1	JTKL-M15067	2	67.2	244
2	JTKL-M15100	3	100.8	365
3	JTKL-M15269	8	268.8	976

These drawings refer to 'JTKL-M15100'

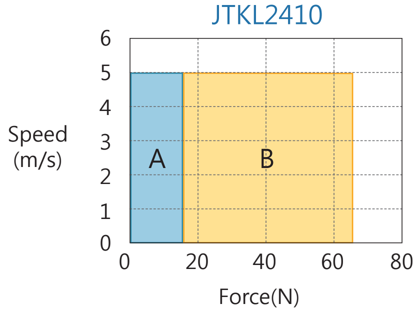
제품 사양

L24

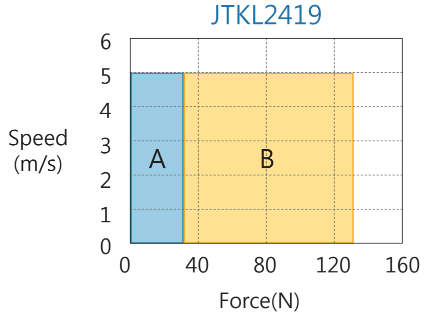
항목	기호	단위	형번			
			JTKL2410	JTKL2419	JTKL2429	JTKL2438
연속 추력	F_c	N	16	32	48	64
최대 추력	F_p	N	64	128	192	256
연속 전류	I_c@T_{max}	A_{rms}	1.1	2.1	3.2	4.2
최대 전류	I_p	A_{rms}	4.2	8.4	12.6	16.8
추력 상수	K_f	N/A_{rms}	15.2	15.2	15.2	15.2
전기 시정수	T_e	ms	0.7	0.7	0.7	0.7
상간 역기전력 상수	K_e	V_{rms}/m/s	8.8	8.8	8.8	8.8
상간 저항(25°C)	R_s	Ω	5.0	2.5	1.7	1.3
상간 인덕턴스	L_s	mH	3.6	1.8	1.2	0.9
모터 상수	K_M	N/$\sqrt{W}$	4.9	7.0	8.5	9.9
코일 질량	M_c	kg	0.3	0.6	0.9	1.2
최대 속도	V_{max}	m/s	5	5	5	5
자석 피치 (N극에서 S극)	-	mm	24	24	24	24
정격 출력	P_c	W	80	160	240	320

A : 연속 영역
B : 단속 영역

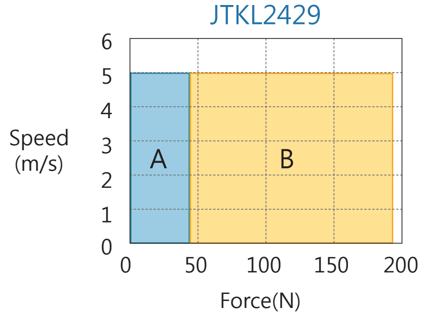
JTKL2410



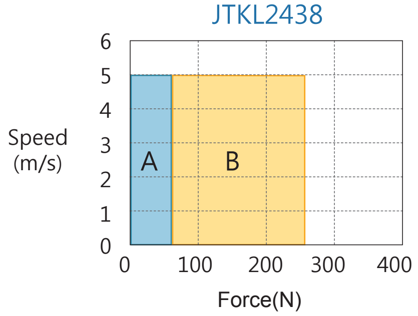
JTKL2419



JTKL2429



JTKL2438



· 주의 : 입력 전압이 3상 AC220V의 경우입니다.

외형도

L24

코일 : JTKL-G24□□

Unit : mm

Motor terminal connection

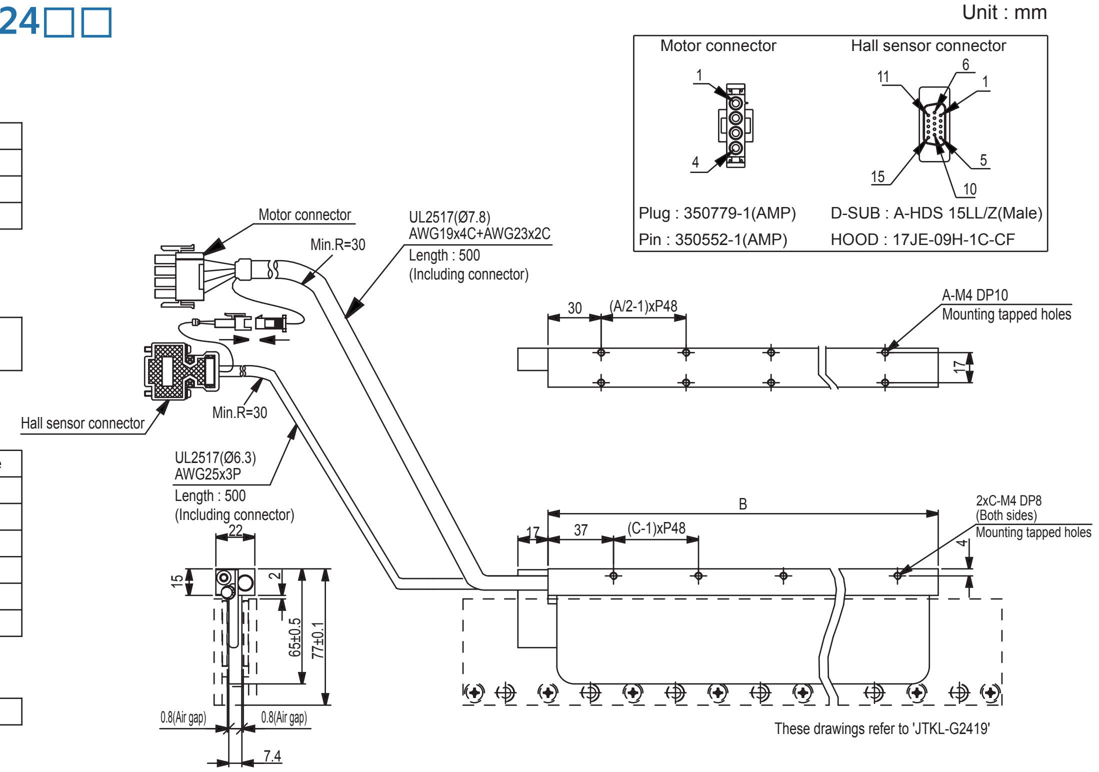
1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Mating
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

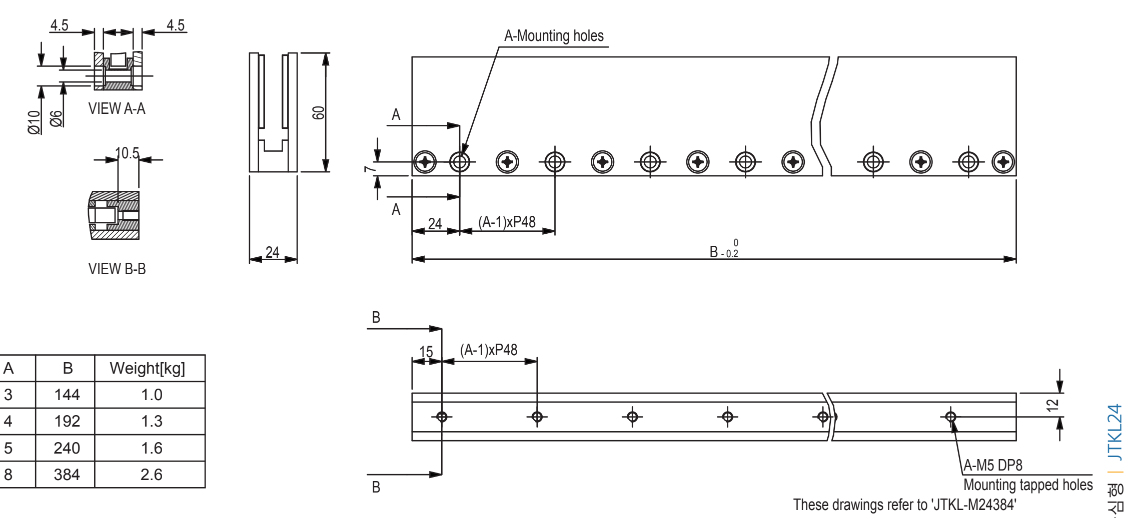
Mating
D-SUB : A-HDF 15LL/Z(Female)



No.	Coil assembly	A	B	C	Weight[kg]
1	JTKL-G2410	4	108	2	0.3
2	JTKL-G2419	8	204	4	0.6
3	JTKL-G2429	12	300	6	0.9
4	JTKL-G2438	16	396	8	1.2

자석판 : JTKL-M24□□□

Unit : mm



No.	Magnet assembly	A	B	Weight[kg]
1	JTKL-M24144	3	144	1.0
2	JTKL-M24192	4	192	1.3
3	JTKL-M24240	5	240	1.6
4	JTKL-M24384	8	384	2.6

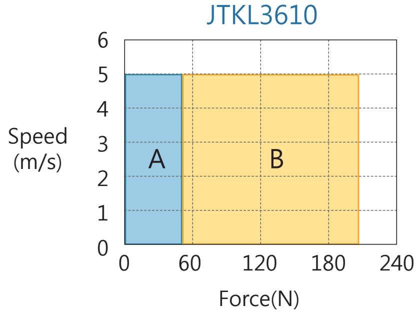
L36

제품 사양

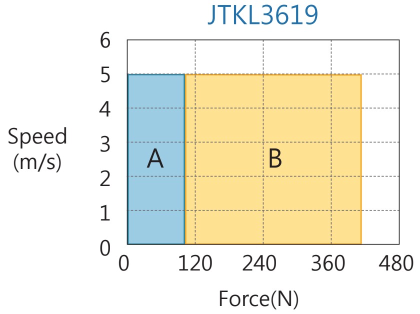
항목	기호	단위	형번			
			JTKL3610	JTKL3619	JTKL3629	JTKL3638
연속 추력	F_c	N	52	104	156	208
최대 추력	F_p	N	208	416	624	832
연속 전류	I_c@T_{max}	A_{rms}	1.5	3.0	4.5	6.0
최대 전류	I_p	A_{rms}	6	12	18	24
추력 상수	K_f	N/A_{rms}	34.7	34.7	34.7	34.7
전기 시정수	T_e	ms	1.2	1.1	1.1	1.0
상간 역기전력 상수	K_e	V_{rms}/m/s	20	20	20	20
상간 저항(25°C)	R_s	Ω	5.9	3.0	2.1	1.7
상간 인덕턴스	L_s	mH	6.9	3.5	2.3	1.8
모터 상수	K_M	N/$\sqrt{W}$	10.3	14.4	17.3	19.5
코일 질량	M_C	kg	0.6	1.2	1.8	2.4
최대 속도	V_{max}	m/s	5	5	5	5
자석 피치 (N극에서 S극)	-	mm	24	24	24	24
정격 출력	P_c	W	260	520	780	1040

A : 연속 영역
B : 단속 영역

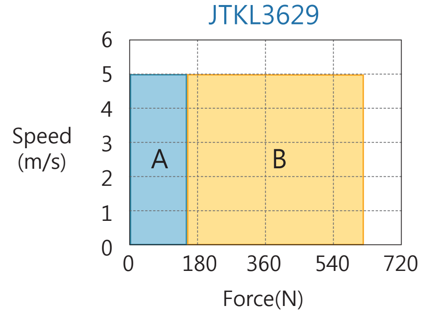
JTKL3610



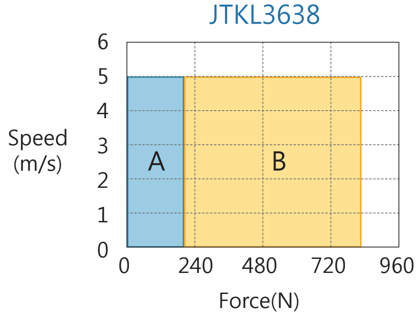
JTKL3619



JTKL3629



JTKL3638



· 주의 : 입력 전압이 3상 AC220V의 경우입니다.

L36

외형도

코일 : JTKL-G36□□

Unit : mm

Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Mating

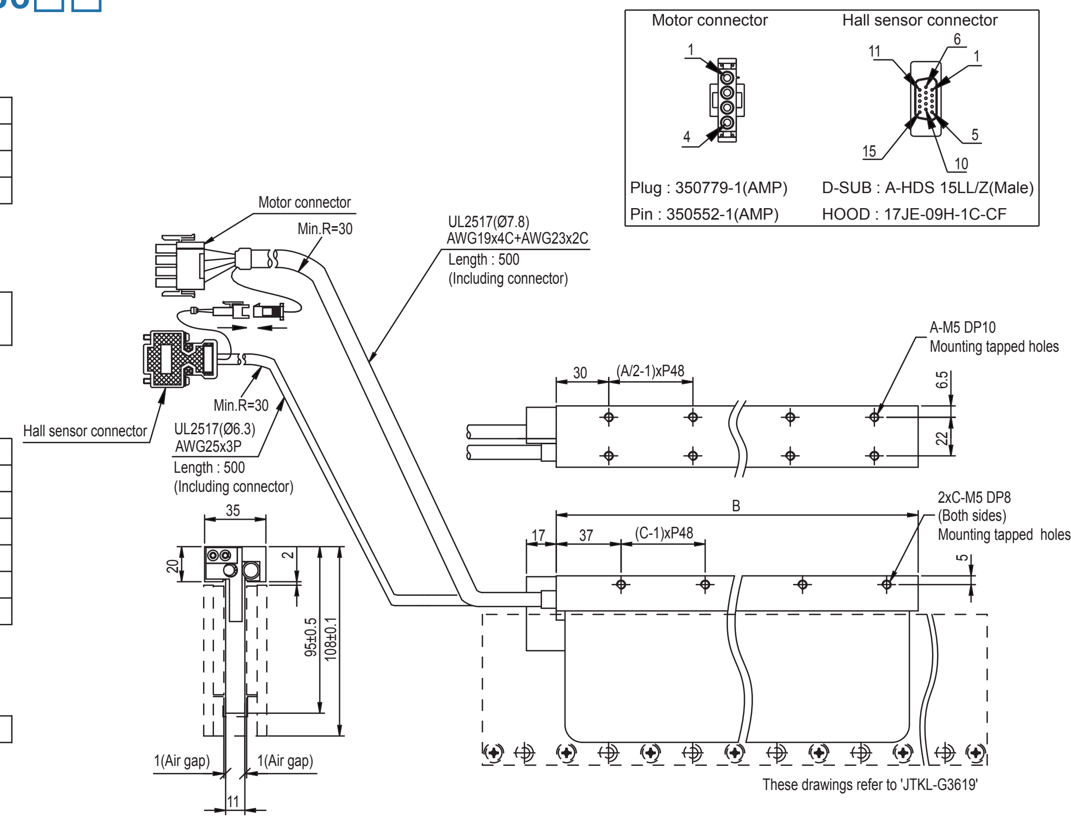
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

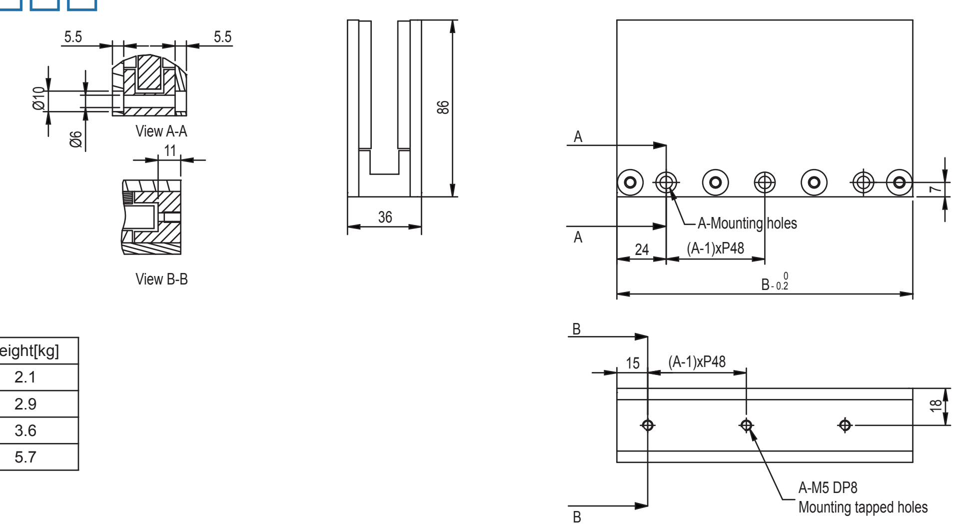
D-SUB : A-HDF 15LL/Z(Female)



No.	Coil assembly	A	B	C	Weight[kg]	Cable
1	JTKL-G3610	4	108	2	0.6	UL2517(Ø7.8) AWG19x4C
2	JTKL-G3619	8	204	4	1.2	UL2517(Ø7.8) AWG19x4C
3	JTKL-G3629	12	300	6	1.8	UL2517(Ø7.8) AWG19x4C
4	JTKL-G3638	16	396	8	2.4	UL2517(Ø8.0) AWG17x4C

자석판 : JTKL-M36□□□

Unit : mm



No.	Magnet assembly	A	B	Weight[kg]
1	JTKL-M36144	3	144	2.1
2	JTKL-M36192	4	192	2.9
3	JTKL-M36240	5	240	3.6
4	JTKL-M36384	8	384	5.7

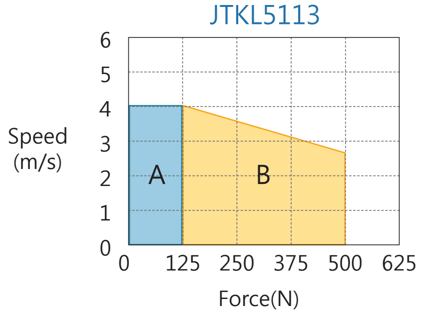
제품 사양

L51

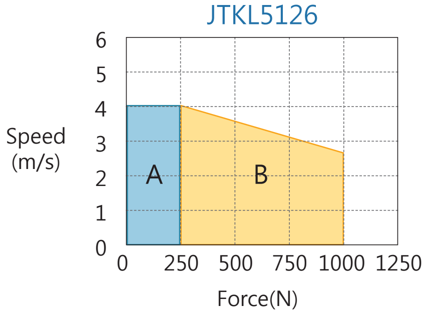
항목	기호	단위	형번				
			JTKL5113	JTKL5126	JTKL5139	JTKL5153	JTKL5179
연속 추력	F_c	N	125	250	375	500	750
최대 추력	F_p	N	500	1000	1500	2000	3000
연속 전류	I_c@T_{max}	A_{rms}	2	4	6	8	12
최대 전류	I_p	A_{rms}	8	16	24	32	48
추력 상수	K_f	N/A_{rms}	62.5	62.5	62.5	62.5	62.5
전기 시정수	T_e	ms	2.0	2.0	1.9	1.8	1.8
상간 역기전력 상수	K_e	$V_{rms}/m/s$	36.1	36.1	36.1	36.1	36.1
상간 저항(25℃)	R_s	Ω	6.3	3.2	2.2	1.8	1.2
상간 인덕턴스	L_s	mH	12.6	6.3	4.2	3.2	2.2
모터 상수	K_M	$N/\sqrt{W}$	18.0	25.2	30.4	34.1	41.6
코일 질량	M_C	kg	1.0	2.1	3.1	4.2	6.3
최대 속도	V_{max}	m/s	4	4	4	4	4
자석 피치 (N극에서 S극)	-	mm	33	33	33	33	33
정격 출력	P_c	W	500	1000	1500	2000	3000

A : 연속 영역
B : 단속 영역

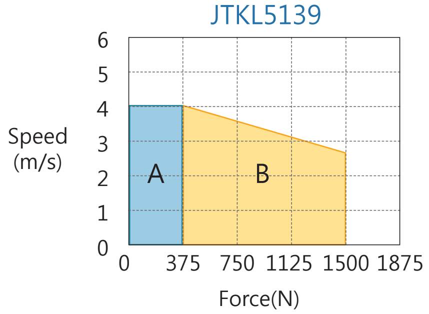
JTKL5113



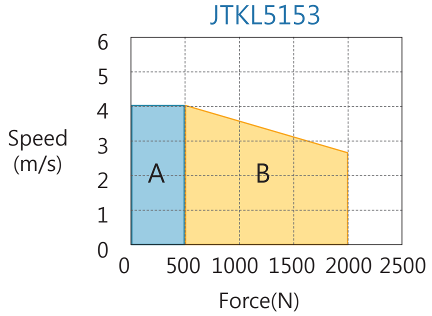
JTKL5126



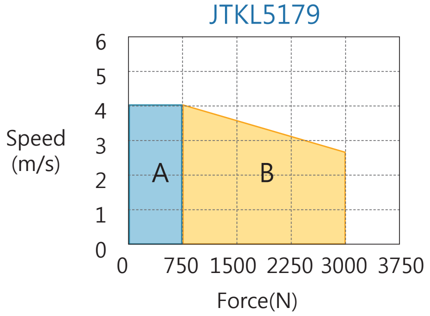
JTKL5139



JTKL5153



JTKL5179



· 주의 : 입력 전압이 3상 AC220V의 경우입니다.

외형도

L51

코일 : JTKL-G51□□

Unit : mm

Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Mating

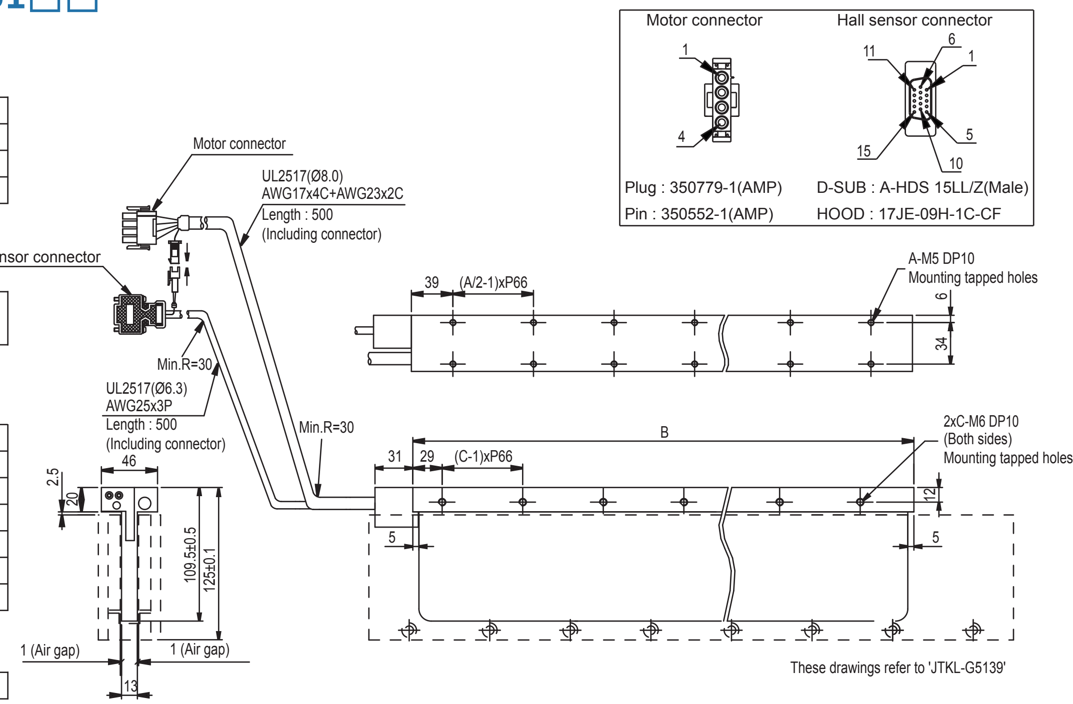
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

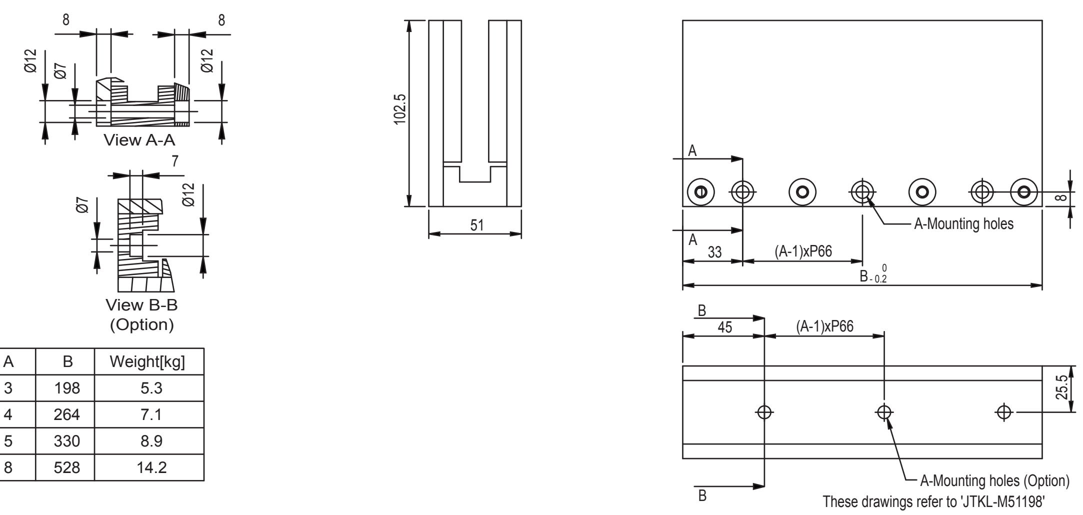
D-SUB : A-HDF 15LL/Z(Female)



No.	Coil assembly	A	B	C	Weight[kg]	Cable
1	JTKL-G5113	4	144	2	1.0	UL2517(Ø7.8) AWG19X4C
2	JTKL-G5126	8	276	4	2.1	UL2517(Ø7.8) AWG19X4C
3	JTKL-G5139	12	408	6	3.1	UL2517(Ø8.0) AWG17X4C
4	JTKL-G5153	16	540	8	4.2	UL2517(Ø8.0) AWG17X4C
5	JTKL-G5179	24	804	12	6.3	UL2517(Ø8.0) AWG17X4C

자석판 : JTKL-M51□□□

Unit : mm



No.	Magnet assembly	A	B	Weight[kg]
1	JTKL-M51198	3	198	5.3
2	JTKL-M51264	4	264	7.1
3	JTKL-M51330	5	330	8.9
4	JTKL-M51528	8	528	14.2

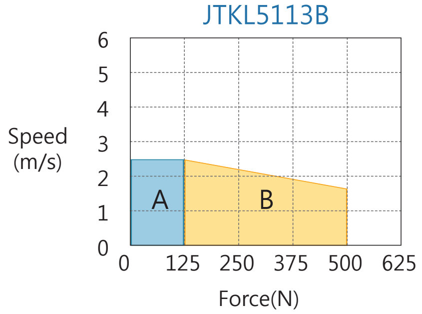
L51B

제품 사양

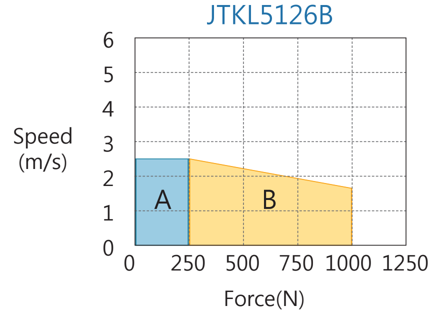
항목	기호	단위	형번				
			JTKL5113B	JTKL5126B	JTKL5139B	JTKL5153B	JTKL5179B
연속 추력	F_c	N	125	250	375	500	750
최대 추력	F_p	N	500	1000	1500	2000	3000
연속 전류	$I_c@T_{max}$	A_{rms}	1.4	2.8	4.1	5.5	8.3
최대 전류	I_p	A_{rms}	5.5	11.0	16.5	22.0	33.0
추력 상수	K_f	N/A_{rms}	90.9	90.9	90.9	90.9	90.9
전기 시정수	T_e	ms	2.1	2.1	2.1	2.1	2.1
상간 역기전력 상수	K_e	$V_{rms}/m/s$	52.5	52.5	52.5	52.5	52.5
상간 저항(25℃)	R_s	Ω	13.1	6.6	4.4	3.3	2.2
상간 인덕턴스	L_s	mH	26.9	13.5	9.0	6.8	4.6
모터 상수	K_M	$N/\sqrt{W}$	18.1	25.6	31.4	36.2	44.3
코일 질량	M_C	kg	1.0	2.1	3.1	4.2	6.3
최대 속도	V_{max}	m/s	2.5	2.5	2.5	2.5	2.5
자석 피치 (N극에서 S극)	-	mm	33	33	33	33	33
정격 출력	P_c	W	312	625	937	1250	1875

A : 연속 영역
B : 단속 영역

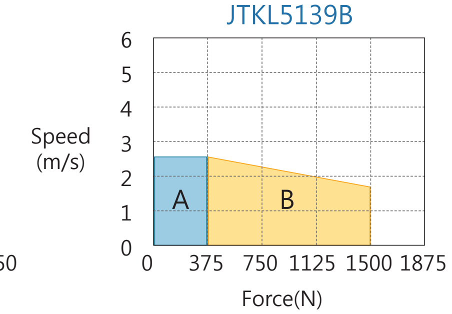
JTKL5113B



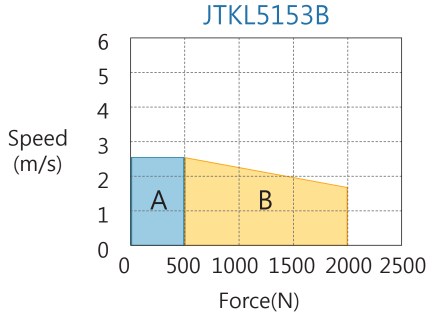
JTKL5126B



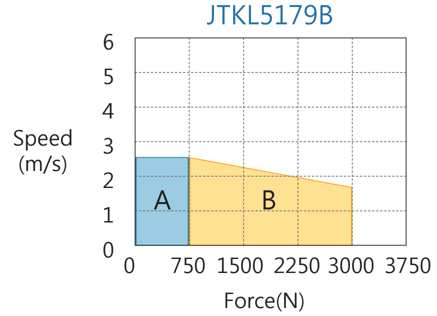
JTKL5139B



JTKL5153B



JTKL5179B



· 주의 : 입력 전압이 3상 AC220V의 경우입니다.

L51B

외형도

코일 : JTKL-G51□□B

Unit : mm

Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Mating

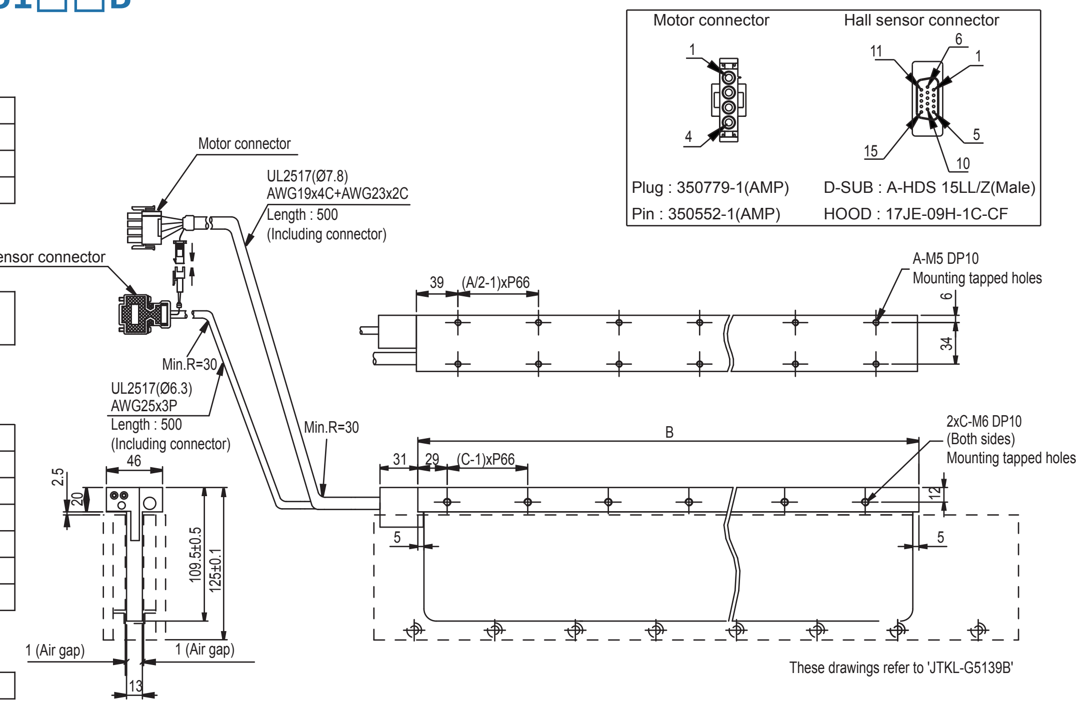
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

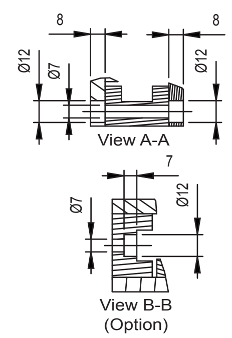
D-SUB : A-HDF 15LL/Z(Female)

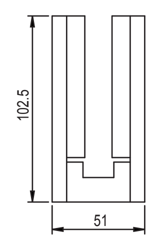


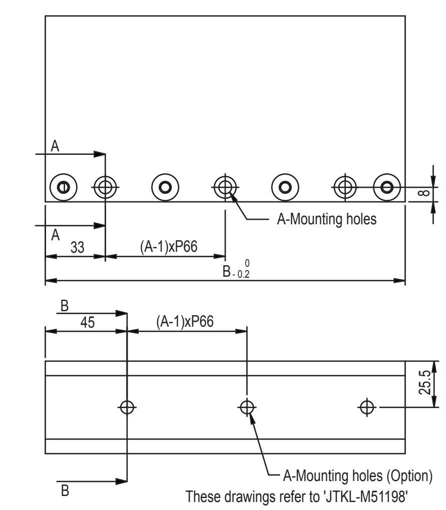
No.	Coil assembly	A	B	C	Weight[kg]	Cable
1	JTKL-G5113B	4	144	2	1.0	UL2517(Ø7.8) AWG19x4C
2	JTKL-G5126B	8	276	4	2.1	UL2517(Ø7.8) AWG19x4C
3	JTKL-G5139B	12	408	6	3.1	UL2517(Ø7.8) AWG19x4C
4	JTKL-G5153B	16	540	8	4.2	UL2517(Ø7.8) AWG19x4C
5	JTKL-G5179B	24	804	12	6.3	UL2517(Ø8.0) AWG17x4C

자석판 : JTKL-M51□□□

Unit : mm







No.	Magnet assembly	A	B	Weight[kg]
1	JTKL-M51198	3	198	5.3
2	JTKL-M51264	4	264	7.1
3	JTKL-M51330	5	330	8.9
4	JTKL-M51528	8	528	14.2

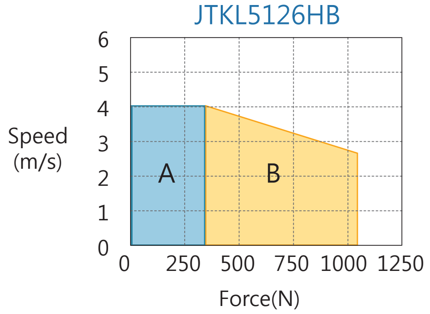
L51HB

제품 사양

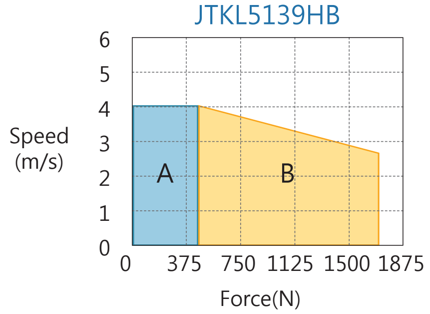
항목	기호	단위	형번 JTKL5126HB	JTKL5139HB	JTKL5153HB	JTKL5179HB
연속 추력	F_c	N	293	440	586	880
최대 추력	F_p	N	1172	1760	2344	3520
연속 전류	I_c@T_{max}	A_{rms}	6	9	12	18
최대 전류	I_p	A_{rms}	24	36	48	72
추력 상수	K_f	N/A_{rms}	49	49	49	49
전기 시정수	T_e	ms	1.8	1.8	1.9	1.9
상간 역기전력 상수	K_e	V_{rms}/m/s	28.2	28.2	28.2	28.2
상간 저항(25℃)	R_s	Ω	1.9	1.3	0.9	0.6
상간 인덕턴스	L_s	mH	3.4	2.3	1.7	1.2
모터 상수	K_M	$N/\sqrt{W}$	26.1	32.0	37.1	45.8
코일 질량	M_C	kg	2.1	3.2	4.3	6.4
최대 속도	V_{max}	m/s	4	4	4	4
자석 피치 (N극에서 S극)	-	mm	33	33	33	33
정격 출력	P_c	W	1172	1760	2347	3520

A : 연속 영역
B : 단속 영역

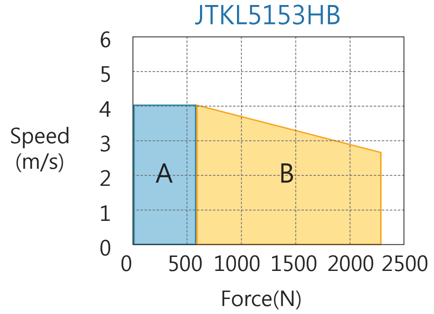
JTKL5126HB



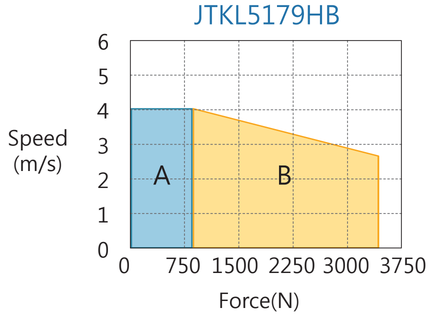
JTKL5139HB



JTKL5153HB



JTKL5179HB



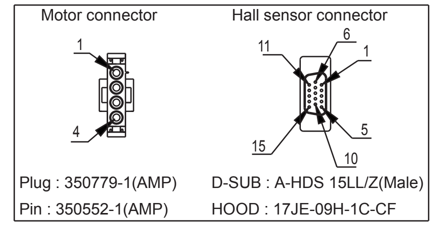
· 주의 : 입력 전압이 3상 AC220V의 경우입니다.

L51HB

외형도

코일 : JTKL-G51□□HB

Unit : mm



Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Mating

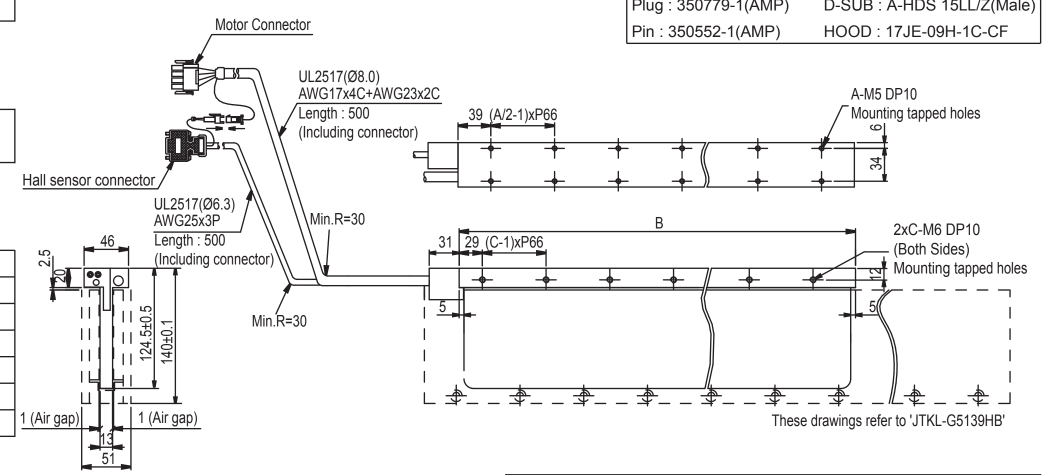
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

D-SUB : A-HDF 15LL/Z(Female)



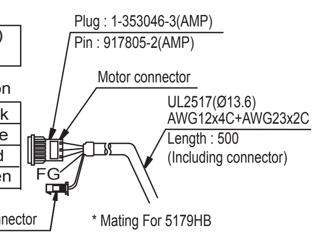
No.	Coil assembly	A	B	C	Weight[kg]	Cable
1	JTKL-G5126HB	8	276	4	2.1	UL2517(Ø8.0) AWG17x4C
2	JTKL-G5139HB	12	408	6	3.2	UL2517(Ø8.0) AWG17x4C
3	JTKL-G5153HB	16	540	8	4.3	UL2517(Ø8.0) AWG17X4C
4	JTKL-G5179HB	24	804	12	6.4	UL2517(Ø13.6) AWG12X4C

Mating

Cap : 1-179958-3(AMP)
Pin : 179956-2(AMP)

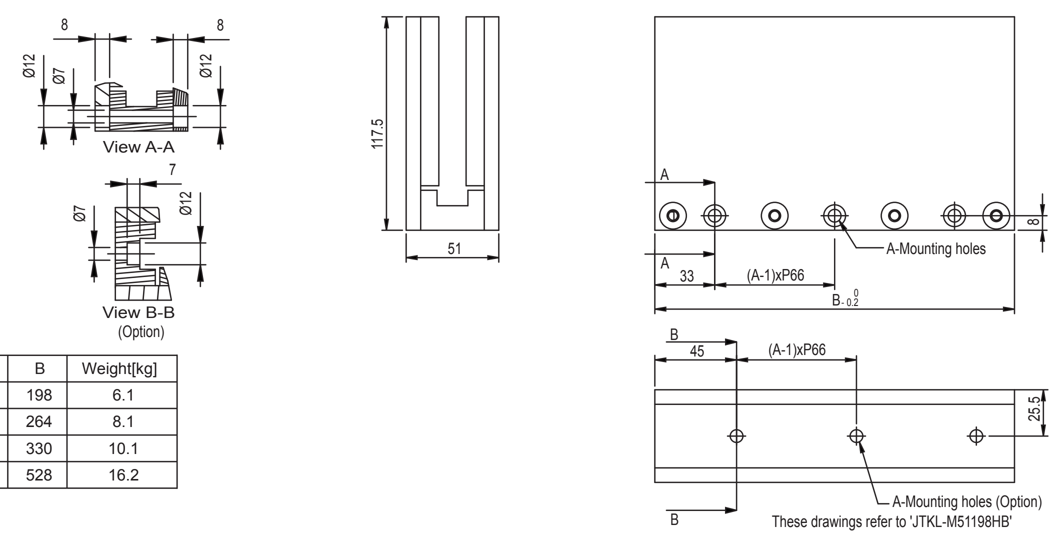
Motor Terminal Connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
	Frame ground	Green



자석판 : JTKL-M51□□□HB

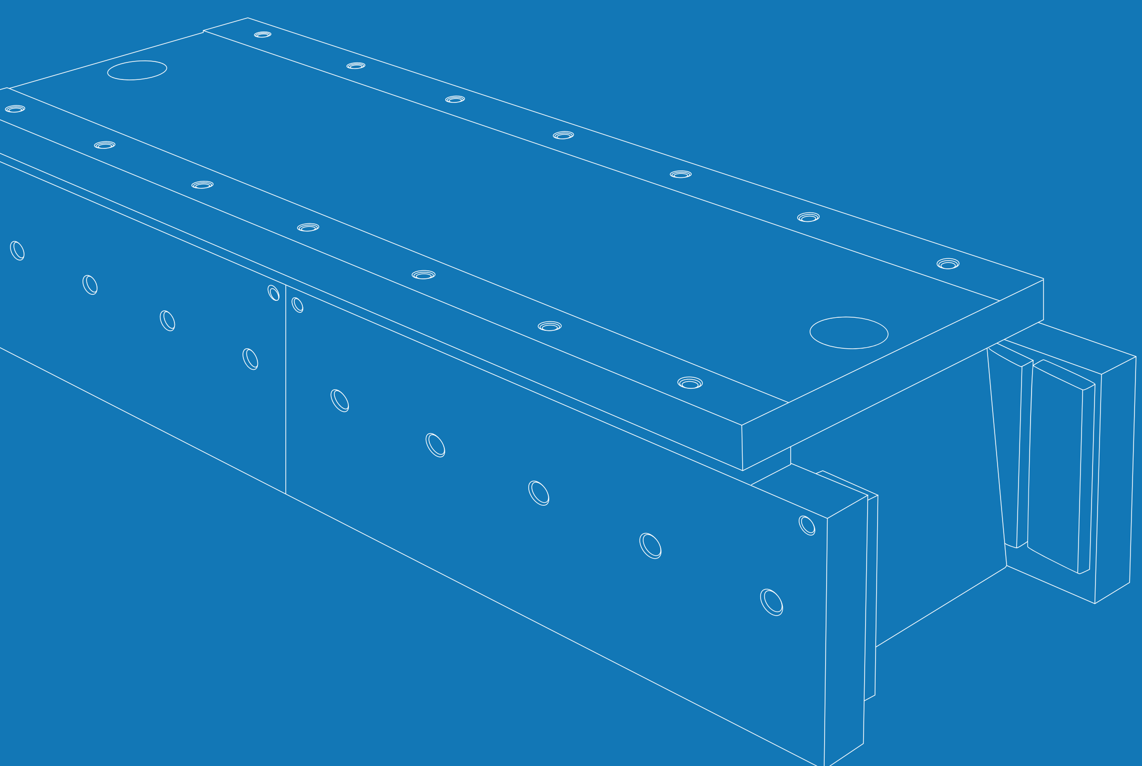
Unit : mm



No.	Magnet assembly	A	B	Weight[kg]
1	JTKL-M51198HB	3	198	6.1
2	JTKL-M51264HB	4	264	8.1
3	JTKL-M51330HB	5	330	10.1
4	JTKL-M51528HB	8	528	16.2

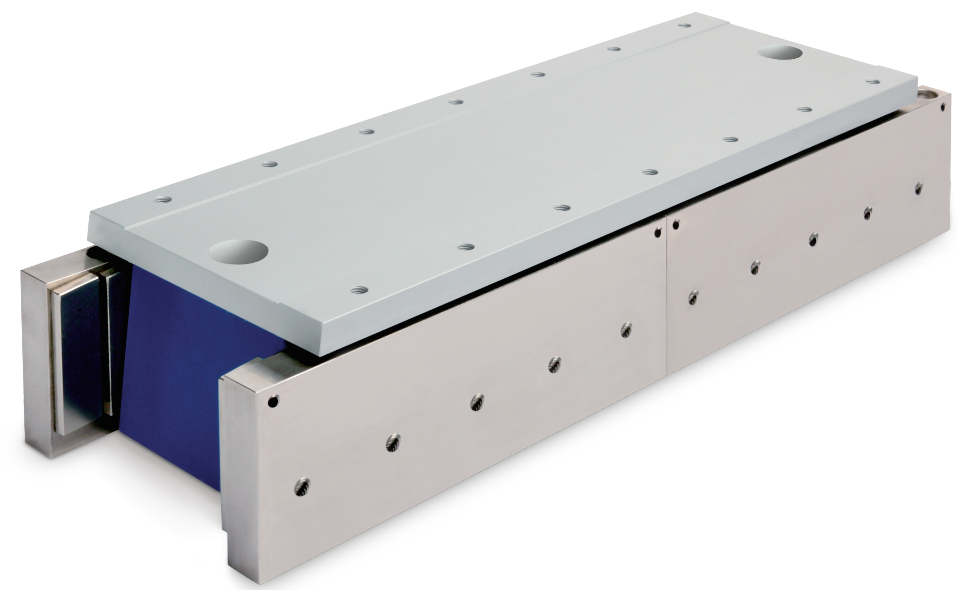
양측식

져스텍 리니어 모터



공통 사양

절연저항	10MΩ 이상 (DC 500V)
내전압	AC 1800V, 15mA, 1초
동작습도	20 ~ 80% RH (결로나 서리가 없을 것)
동작온도	0 ~ 40°C



JTKW45 시리즈

JTKW74Z(S) 시리즈

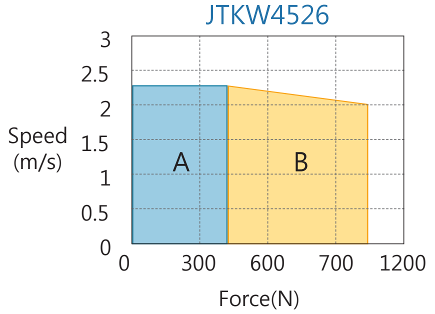
제품 사양

W45

항목	기호	단위	형번
			JTKW4526
연속 추력	F_c	N	440
최대 추력	F_p	N	1000
연속 전류	I_c@T_{max}	A_{rms}	5.8
최대 전류	I_p	A_{rms}	14.2
추력 상수	K_f	N/A_{rms}	76
전기 시정수	T_e	ms	7.4
상간 역기전력 상수	K_e	V_{rms}/m/s	43.8
상간 저항(25℃)	R_s	Ω	2.3
상간 인덕턴스	L_s	mH	17
모터 상수	K_M	N/$\sqrt{W}$	36
코일 질량	M_C	kg	5.0
최대 속도	V_{max}	m/s	2.3
자석 피치 (N극에서 S극)	-	mm	16
정격 출력	P_c	W	1012

A : 연속 영역
B : 단속 영역

JTKW4526



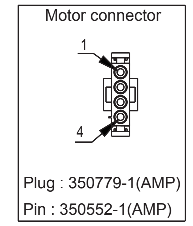
· 주의 : 입력 전압이 3상 AC220V의 경우입니다.

외형도

W45

코일 : JTKW-G45□□

Unit : mm



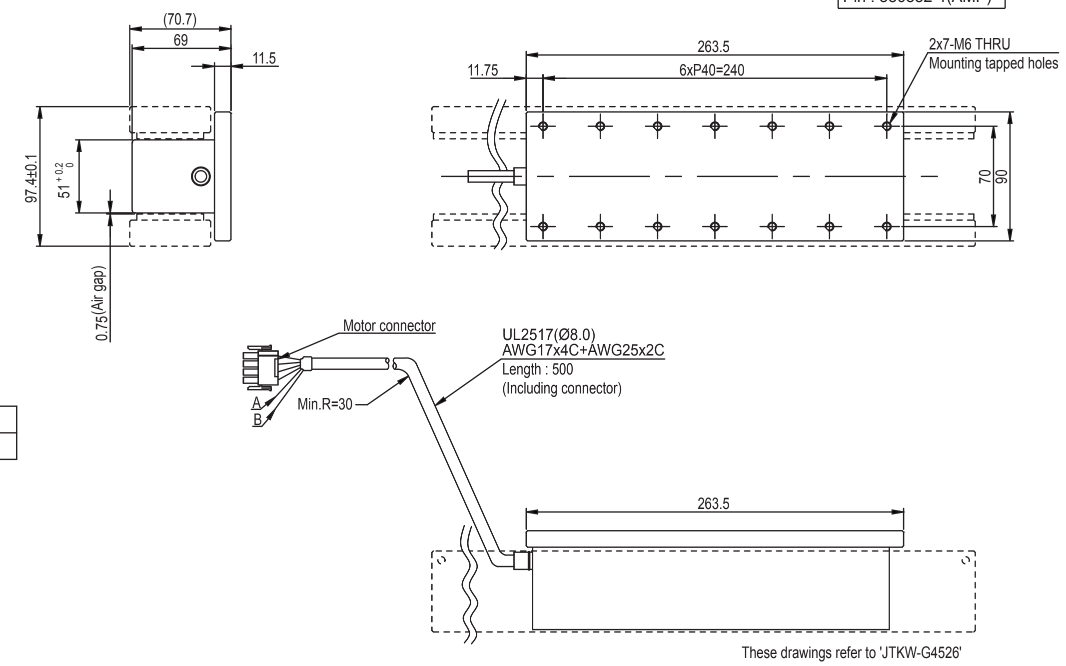
Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green
A	Thermal sensor	Yellow
B	Thermal sensor	Brown

Mating

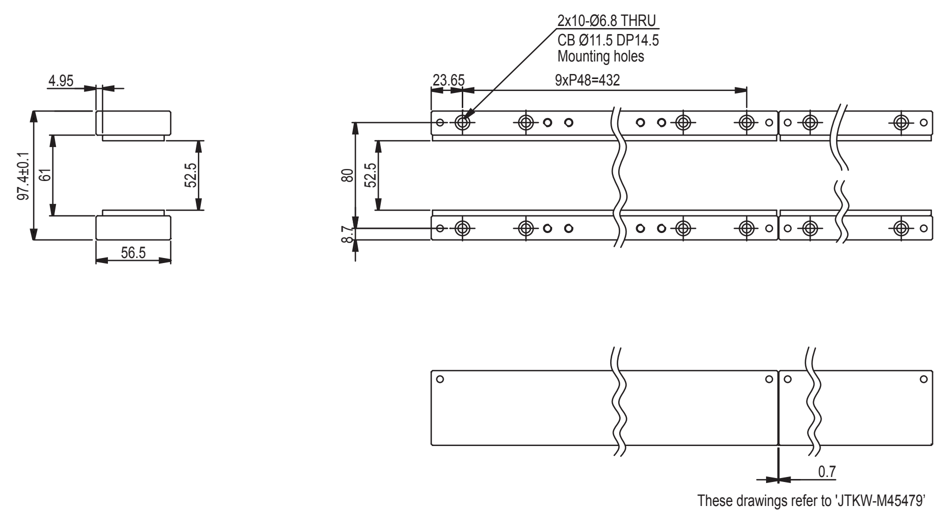
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

No.	Coil assembly	Weight[kg]
1	JTKW-G4526	5.0



자석판 : JTKW-M45□□□

Unit : mm



No.	Magnet assembly	Weight[kg]
1	JTKW-M45479	8.3

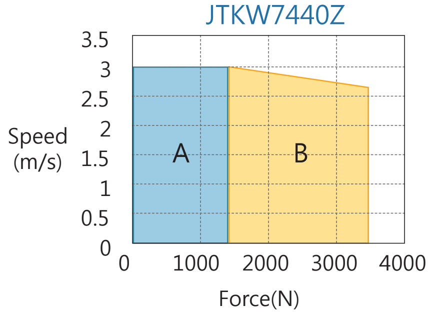
제품 사양

W74Z(S)

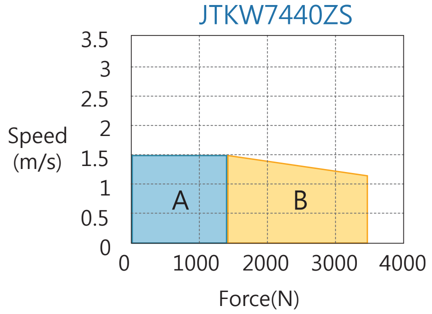
항목	기호	단위	형번			
			JTKW7440Z	JTKW7440ZS	JTKW7460Z	JTKW7460ZS
연속 추력	F_c	N	1400	1400	2100	2100
최대 추력	F_p	N	3500	3500	5250	5250
연속 전류	$I_c@T_{max}$	A_{rms}	17.6	8.8	26.4	13.2
최대 전류	I_p	A_{rms}	44.0	22.0	66.0	33.0
추력 상수	K_f	N/A_{rms}	80	161	80	161
전기 시정수	T_e	ms	28.9	28.9	28.9	28.9
상간 역기전력 상수	K_e	$V_{rms}/m/s$	46.5	92.9	46.5	92.9
상간 저항(25°C)	R_s	Ω	0.3	2.3	0.4	1.6
상간 인덕턴스	L_s	mH	16.5	66.0	11.0	44.0
모터 상수	K_M	$N/\sqrt{W}$	76.6	76.6	93.9	93.9
코일 질량	M_C	kg	24.4	24.4	36.0	36.0
최대 속도	V_{max}	m/s	3.0	1.5	3.0	1.5
자석 피치 (N극에서 S극)	-	mm	24	24	24	24
정격 출력	P_c	W	4200	2100	6300	3150

A : 연속 영역
B : 단속 영역

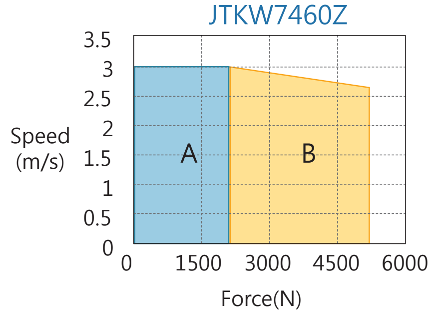
JTKW7440Z



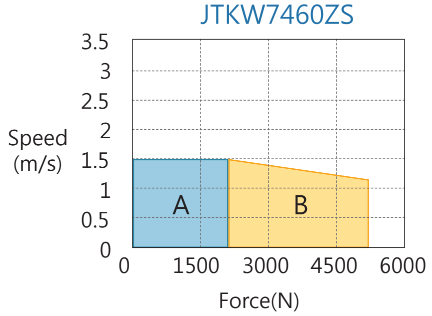
JTKW7440ZS



JTKW7460Z



JTKW7460ZS



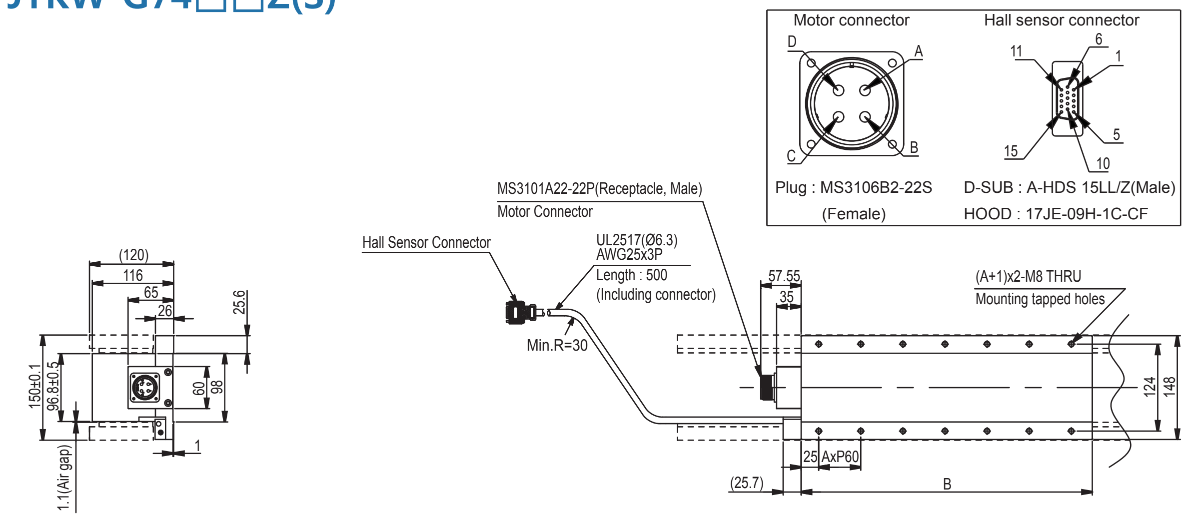
· 주의 : 입력 전압이 3상 AC220V의 경우입니다.

외형도

W74Z(S)

코일 : JTKW-G74□□Z(S)

Unit : mm



Motor terminal connection

A	Phase U	Black
B	Phase V	White
C	Phase W	Red
D	Frame ground	Green

Mating

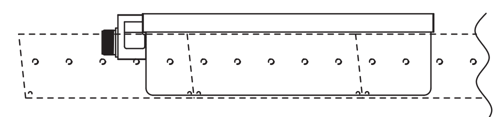
L-Type plug : MS3108B22-22S(Female)
Straight plug : MS3106B22-22S(Female)
Cable clamp : MS3057-12A

Hall sensor terminal connection

01	VCC-HS	Red
02	Hall A	Orange
03	Hall B	Yellow
04	Hall C	Green
05	GND-HS	Blue

Mating

Socket connector : 17JE-13090-02(D8C)(Female)
Stud : 17L-002C or 17L-002C1

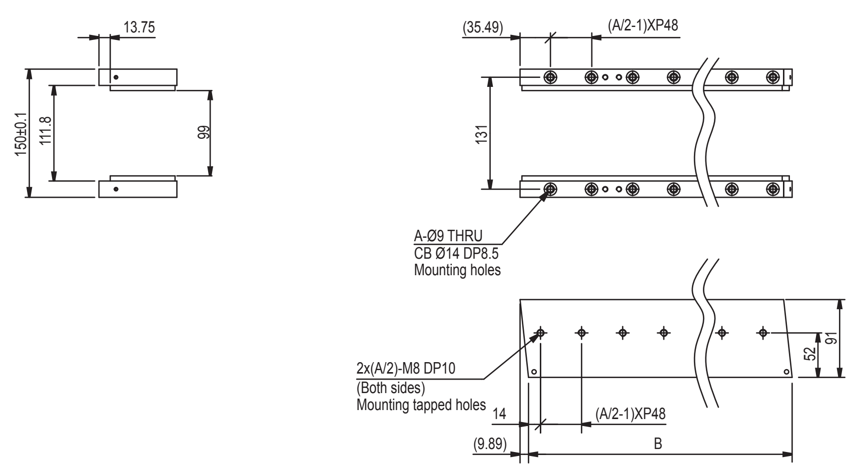


These drawings refer to 'JTKW-G7440Z'

No.	Coil assembly	A	B	Weight[kg]
1	JTKW-G7440Z(S)	6	415	24.4
2	JTKW-G7460Z(S)	9	607	36.0

자석판 : JTKW-M74□□□

Unit : mm

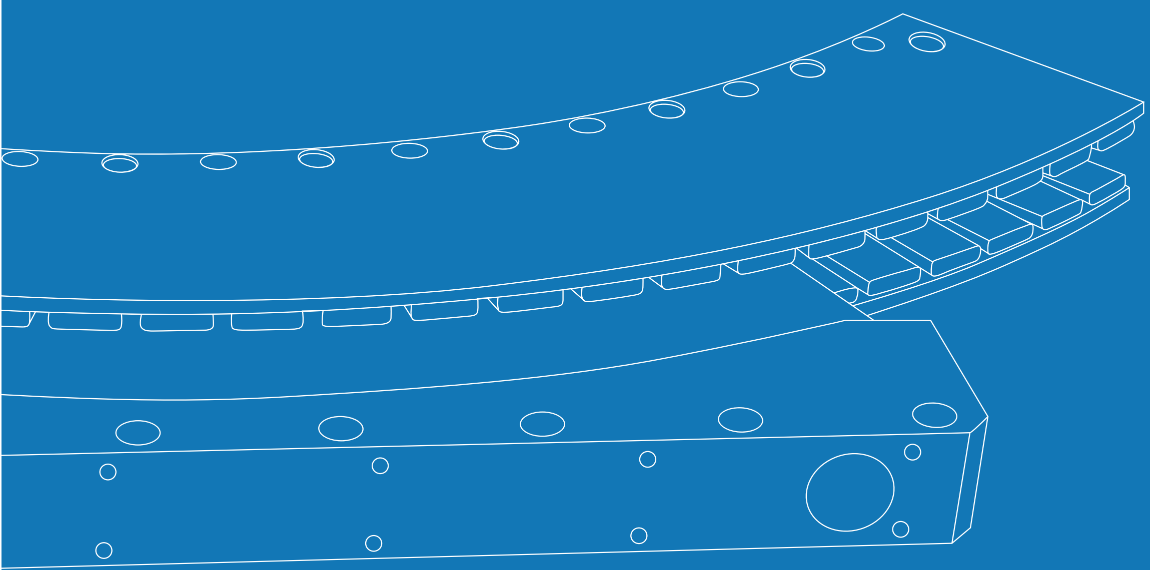


These drawings refer to 'JTKW-M74480'

No.	Magnet assembly	A	B	Weight[kg]
1	JTKW-M74240	10	240	14.2
2	JTKW-M74480	20	480	28.4

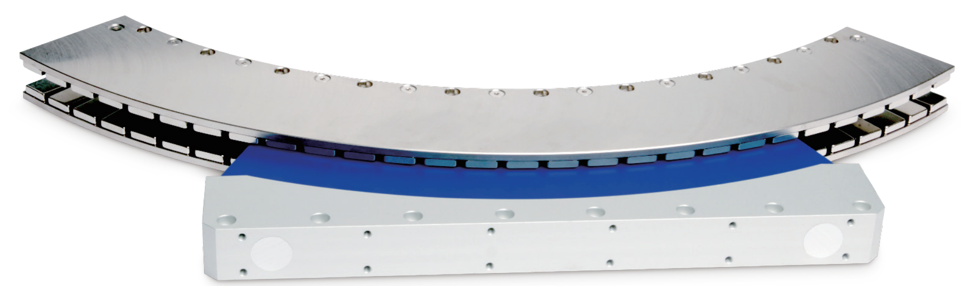
원호형

져스텍 리니어 모터



공통 사양

절연저항	10MΩ 이상 (DC 500V)
내전압	AC 1800V, 15mA, 1초
동작습도	20 ~ 80% RH (결로나 서리가 없을 것)
동작온도	0 ~ 40°C



JTKA30A 시리즈

JTKA42 시리즈

JTKA50 시리즈

JTKA61 시리즈

JTKA65 시리즈

JTKA76 시리즈

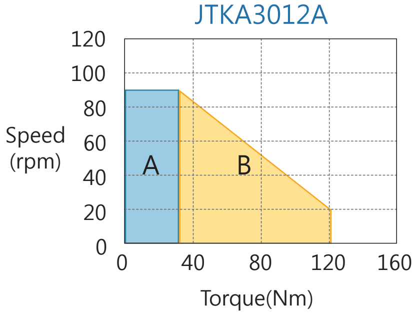
제품 사양

A30A

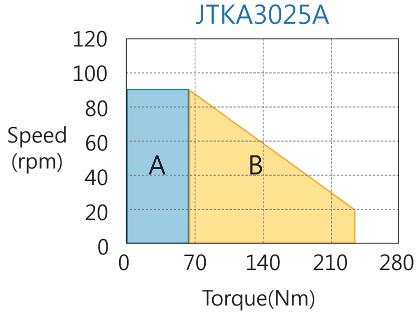
항목	기호	단위	형번	
			JTKA3012A	JTKA3025A
연속 접선 추력	F_c	N	98.8	197.6
최대 접선 추력	F_p	N	395.2	790.4
연속 토크	T_c	Nm	30	60
최대 토크	T_p	Nm	120	240
연속 전류	I_c@T_{max}	A_{rms}	1.5	3.0
최대 전류	I_p	A_{rms}	6	12
추력 상수	K_f	N/A_{rms}	65.9	65.9
토크 상수	K_t	Nm/A_{rms}	20.1	20.1
전기 시정수	T_e	ms	1.1	1.1
상간 역기전력 상수	K_e	V_{rms}/m/s	38.1	38.1
상간 저항(25°C)	R_s	Ω	11.0	5.5
상간 인덕턴스	L_s	mH	12.2	6.1
모터 상수	K_M	N/√W	14.3	20.3
코일 질량	M_C	kg	1.4	2.8
작업 반경	-	mm	305.6	305.6
최대 회전 속도	V_{max}	rpm	90	90
자석 피치 (N극에서 S극)	-	Deg	4.5	4.5
연속 출력	P_c	W	297	593

A : 연속 영역
B : 단속 영역

JTKA3012A



JTKA3025A



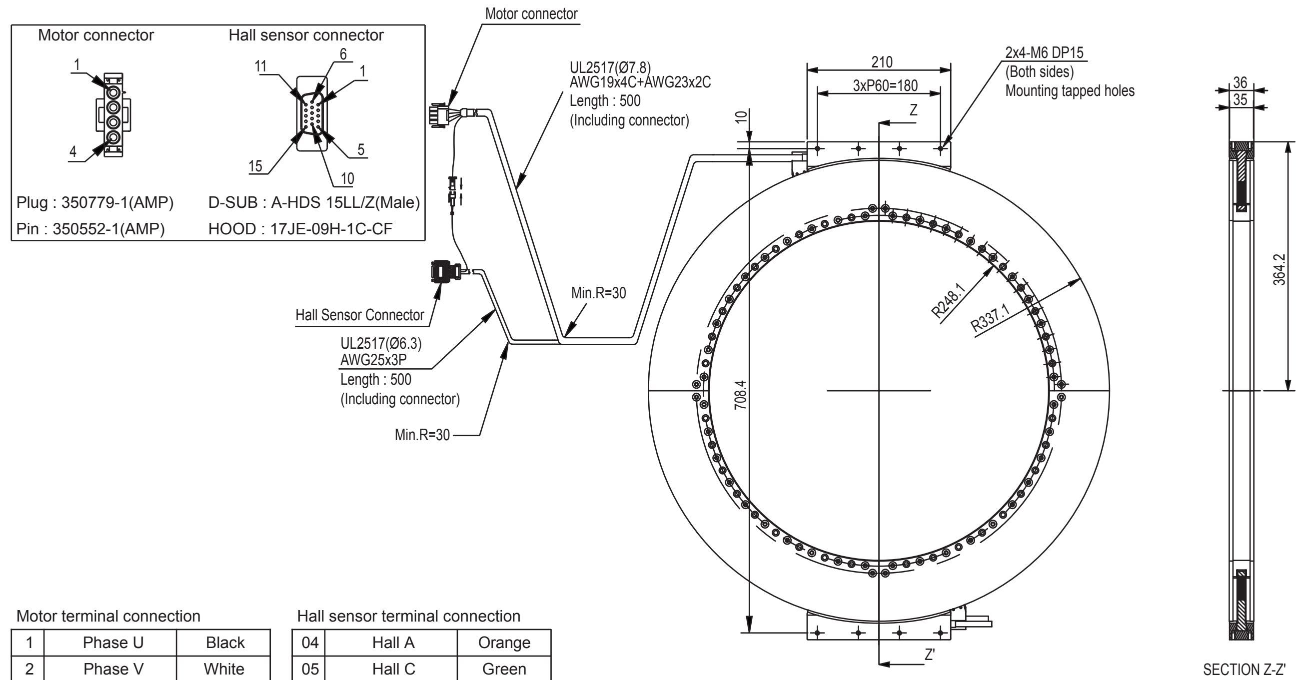
· 주의 : 입력 전압이 3상 AC220V의 경우입니다.

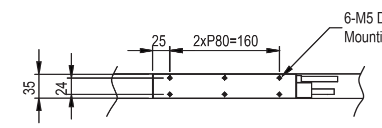
외형도

A30A

코일 : JTKA-G30□□A

Unit : mm





Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

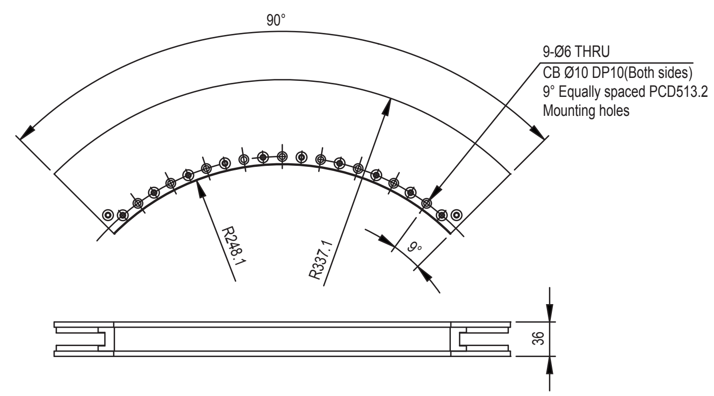
Mating

D-SUB : A-HDF 15LL/Z(Female)

자석판 : JTKA-M30A□□

Unit : mm

No.	Magnet assembly	Weight[kg]
1	JTKA-M30A90	7.1

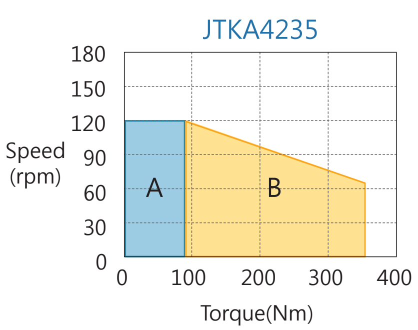


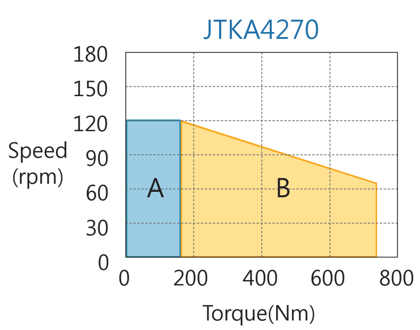
제품 사양

A42

항목	기호	단위	형번 JTKA4235	JTKA4270
연속 접선 추력	F_c	N	208	416
최대 접선 추력	F_p	N	832	1664
연속 토크	T_c	Nm	88	176
최대 토크	T_p	Nm	352	704
연속 전류	I_c@T_{max}	A_{rms}	6	12
최대 전류	I_p	A_{rms}	24	48
추력 상수	K_f	N/A_{rms}	34.7	34.7
토크 상수	K_t	Nm/A_{rms}	14.8	14.8
전기 시정수	T_e	ms	1	1
상간 역기전력 상수	K_e	V_{rms}/m/s	20	20
상간 저항(25°C)	R_s	Ω	1.7	0.9
상간 인덕턴스	L_s	mH	1.7	0.9
모터 상수	K_M	N/√W	19.5	27.5
코일 질량	M_C	kg	3.1	6.2
작업 반경	-	mm	427.8	427.8
최대 회전 속도	V_{max}	rpm	120	120
자석 피치 (N극에서 S극)	-	Deg	3.21	3.21
연속 출력	P_c	W	1040	2080

A : 연속 영역
B : 단속 영역





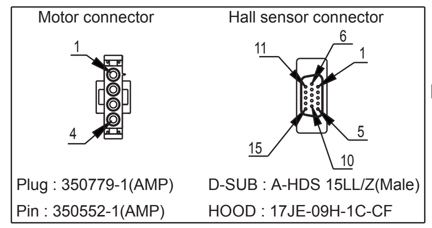
· 주의 : 입력 전압이 3상 AC220V의 경우입니다.

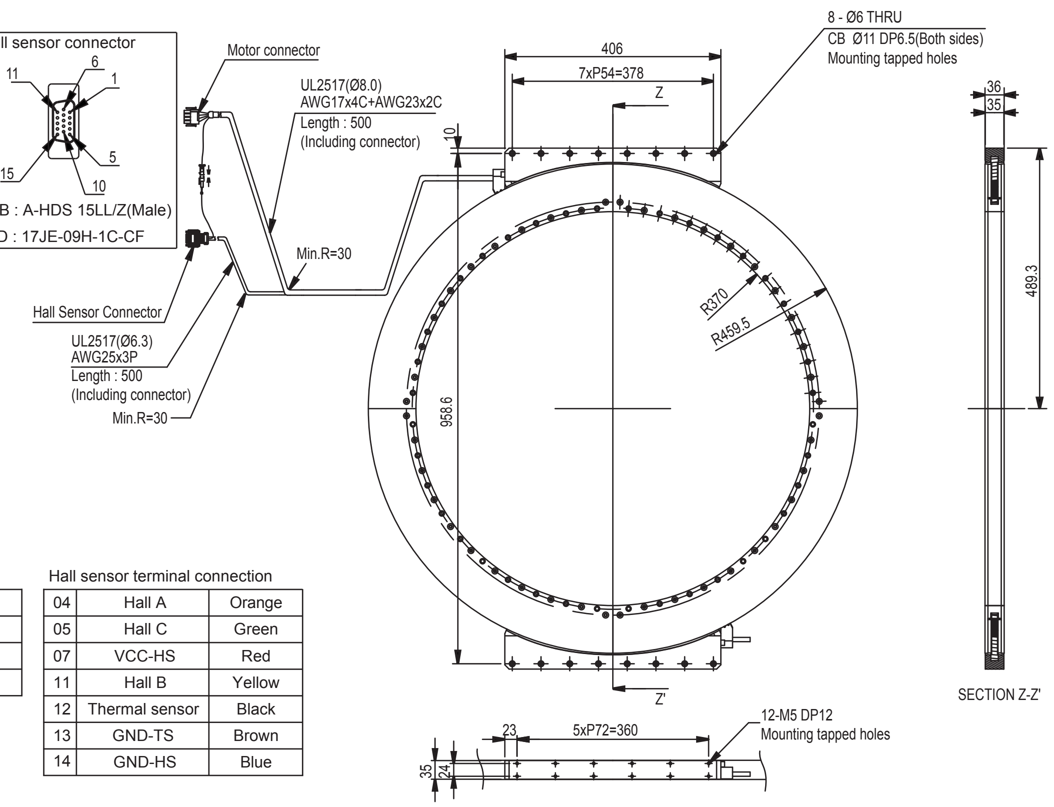
외형도

A42

코일 : JTKA-G42□□

Unit : mm





Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

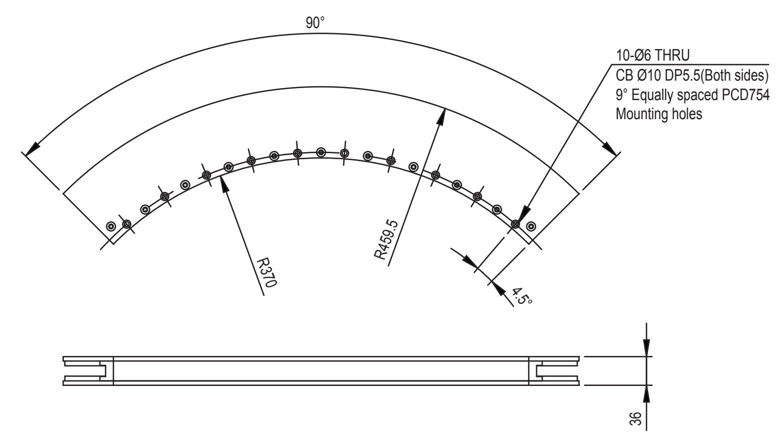
Mating
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

Mating
D-SUB : A-HDF 15LL/Z(Female)

자석판 : JTKA-M42A□□

Unit : mm

No.	Magnet assembly	Weight[kg]
1	JTKA-M42A90	10.3

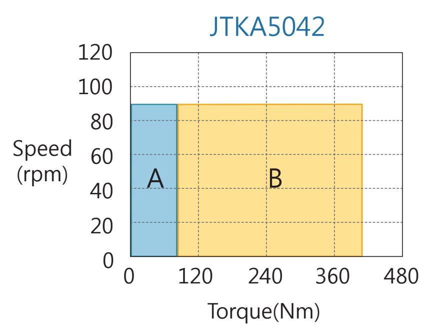


A50

제품 사양

항목	기호	단위	형번
			JTKA5042
연속 접선 추력	F_c	N	208
최대 접선 추력	F_p	N	832
연속 토크	T_c	Nm	104
최대 토크	T_p	Nm	416
연속 전류	$I_c@T_{max}$	A_{rms}	6
최대 전류	I_p	A_{rms}	24
추력 상수	K_f	N/A_{rms}	34.7
토크 상수	K_t	Nm/A_{rms}	17.5
전기 시정수	T_e	ms	1
상간 역기전력 상수	K_e	$V_{rms}/m/s$	20
상간 저항(25°C)	R_s	Ω	1.7
상간 인덕턴스	L_s	mH	1.7
모터 상수	K_M	$N/\sqrt{W}$	19.5
코일 질량	M_c	kg	2.9
작업 반경	-	mm	504.2
최대 회전 속도	V_{max}	rpm	90
자석 피치 (N극에서 S극)	-	Deg	2.73
연속 출력	P_c	W	1040

A : 연속 영역
B : 단속 영역



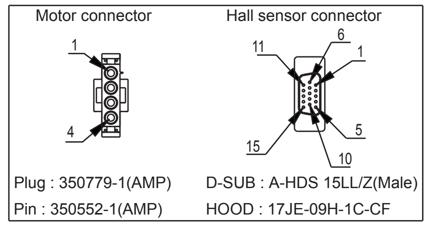
· 주의 : 입력 전압이 3상 AC220V의 경우입니다.

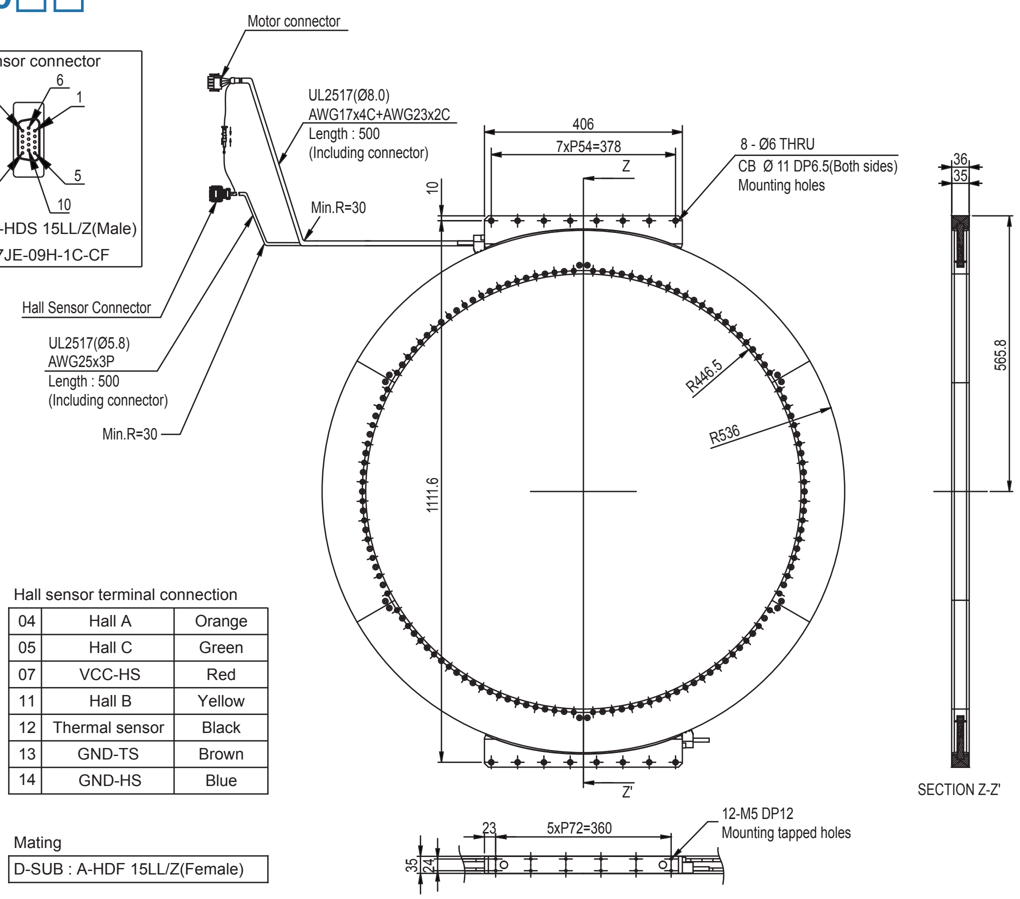
A50

외형도

코일 : JTKA-G50□□

Unit : mm





Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

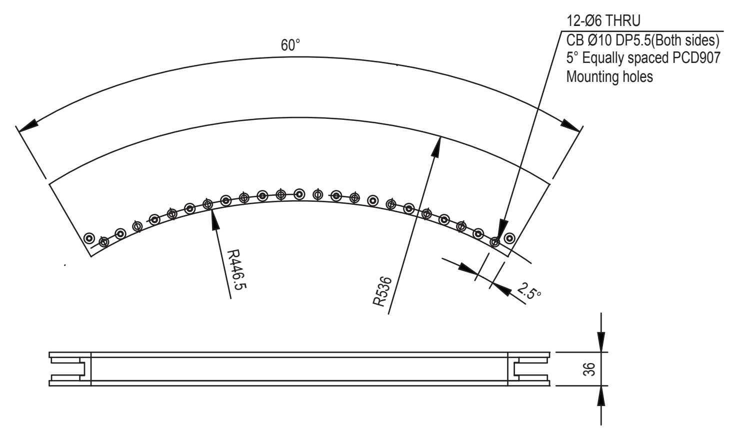
Mating
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

Mating
D-SUB : A-HDF 15LL/Z(Female)

자석판 : JTKA-M50A□□

Unit : mm

No.	Magnet assembly	Weight[kg]
1	JTKA-M50A60	8.0

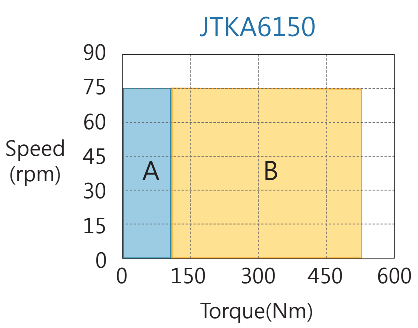


제품 사양

A61

항목	기호	단위	형번
			JTKA6150
연속 접선 추력	F_c	N	208
최대 접선 추력	F_p	N	832
연속 토크	T_c	Nm	127
최대 토크	T_p	Nm	508
연속 전류	I_c@T_{max}	A_{rms}	6
최대 전류	I_p	A_{rms}	24
추력 상수	K_f	N/A_{rms}	34.7
토크 상수	K_t	Nm/A_{rms}	21.2
전기 시정수	T_e	ms	1
상간 역기전력 상수	K_e	V_{rms}/m/s	20
상간 저항(25°C)	R_s	Ω	1.7
상간 인덕턴스	L_s	mH	1.7
모터 상수	K_M	N/√W	19.5
코일 질량	M_C	kg	2.8
작업 반경	-	mm	611.1
최대 회전 속도	V_{max}	rpm	75
자석 피치 (N극에서 S극)	-	Deg	2.25
연속 출력	P_c	W	1040

A : 연속 영역
B : 단속 영역



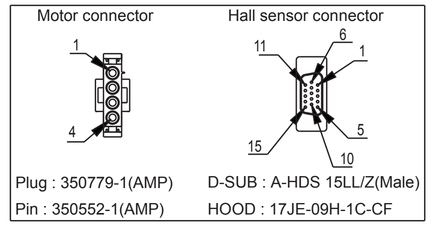
· 주의 : 입력 전압이 3상 AC220V의 경우입니다.

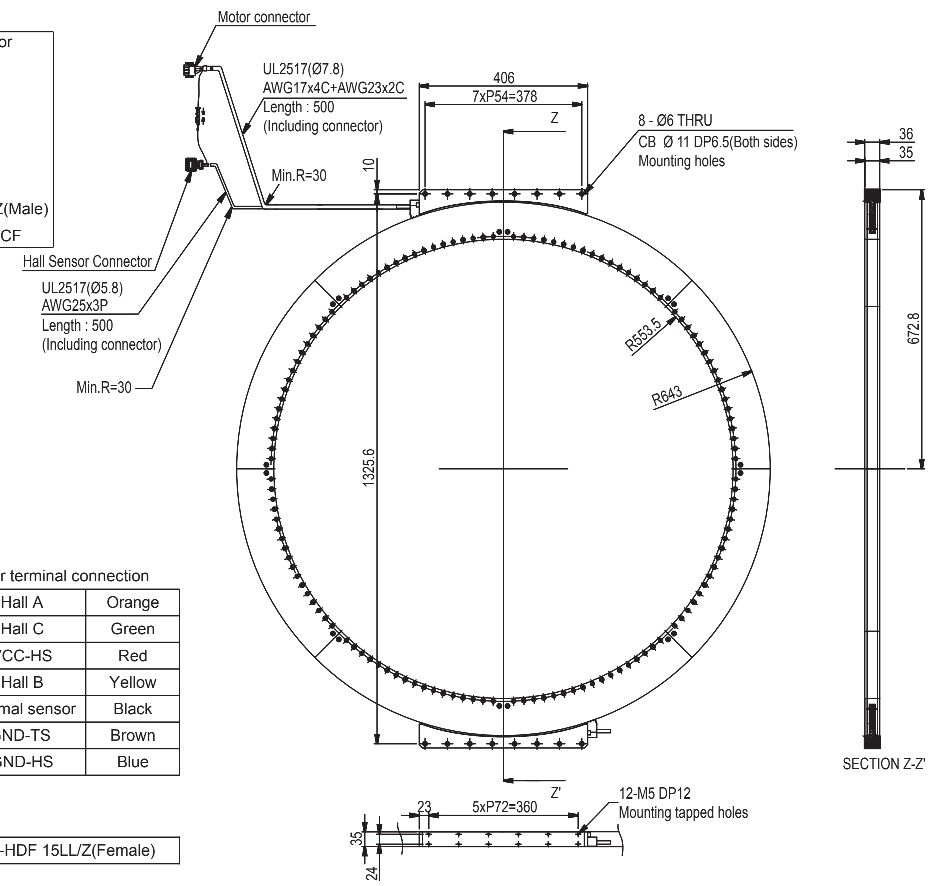
외형도

A61

코일 : JTKA-G61□□

Unit : mm





Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

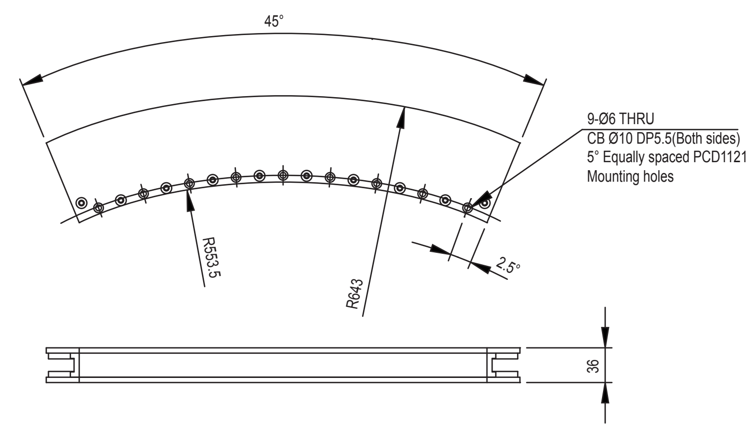
Mating

D-SUB : A-HDF 15LL/Z(Female)

자석판 : JTKA-M61A□□

Unit : mm

No.	Magnet assembly	Weight[kg]
1	JTKA-M61A45	7.4



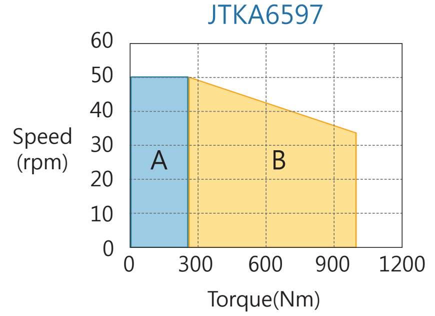
제품 사양

A65

항목	기호	단위	형번
			JTKA6597
연속 접선 추력	F_c	N	375
최대 접선 추력	F_p	N	1500
연속 토크	T_c	Nm	244
최대 토크	T_p	Nm	976
연속 전류	$I_c@T_{max}$	A_{rms}	6
최대 전류	I_p	A_{rms}	24
추력 상수	K_f	N/A_{rms}	62.5
토크 상수	K_t	Nm/A_{rms}	40.7
전기 시정수	T_e	ms	1.8
상간 역기전력 상수	K_e	$V_{rms}/m/s$	36.1
상간 저항(25°C)	R_s	Ω	2.3
상간 인덕턴스	L_s	mH	4.2
모터 상수	K_M	$N/\sqrt{W}$	29.7
코일 질량	M_c	kg	4.1
작업 반경	-	mm	651.3
최대 회전 속도	V_{max}	rpm	50
자석 피치 (N극에서 S극)	-	Deg	2.9
연속 출력	P_c	W	1313

A : 연속 영역
B : 단속 영역

JTKA6597



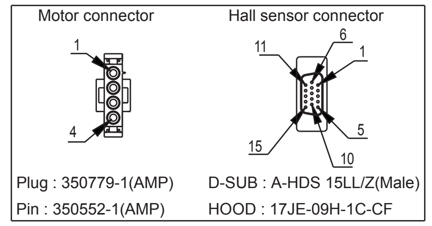
· 주의 : 입력 전압이 3상 AC220V의 경우입니다.

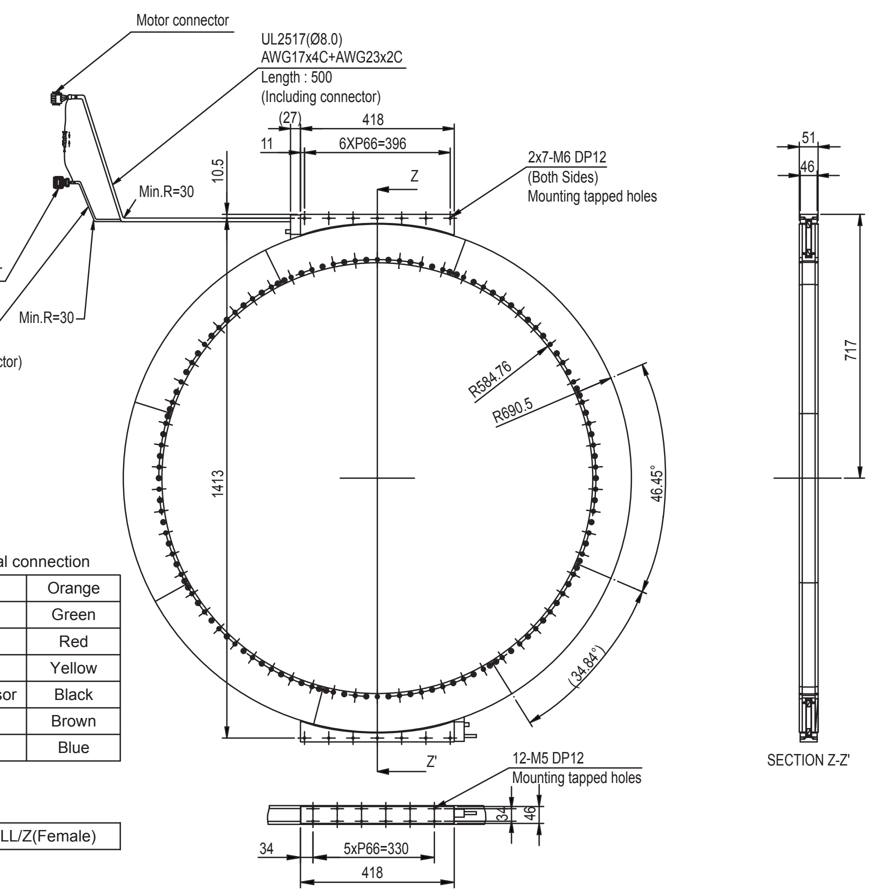
외형도

A65

코일 : JTKA-G65□□

Unit : mm





Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

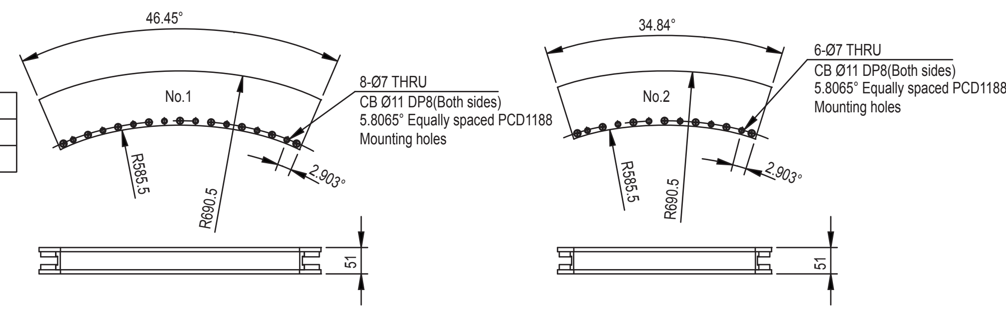
Mating
D-SUB : A-HDF 15LL/Z(Female)

자석판 : JTKA-M65A□□

Unit : mm

No.	Magnet assembly	Weight[kg]
1	JTKA-M65A46	14.1
2	JTKA-M65A35	10.6

No.1 * 7 sets + No.2 * 1 set = 360°

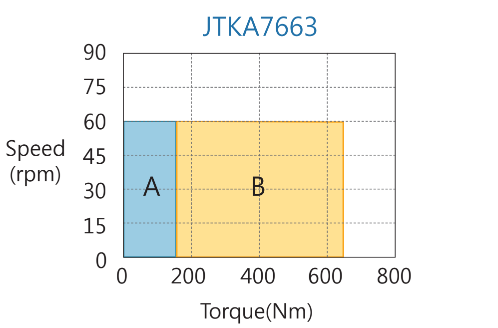


제품 사양

A76

항목	기호	단위	형번 JTKA7663
연속 접선 추력	F_c	N	208
최대 접선 추력	F_p	N	832
연속 토크	T_c	Nm	158
최대 토크	T_p	Nm	632
연속 전류	I_c@T_{max}	A_{rms}	6
최대 전류	I_p	A_{rms}	24
추력 상수	K_f	N/A_{rms}	34.7
토크 상수	K_t	Nm/A_{rms}	26.5
전기 시정수	T_e	ms	1
상간 역기전력 상수	K_e	V_{rms}/m/s	20
상간 저항(25°C)	R_s	Ω	1.7
상간 인덕턴스	L_s	mH	1.7
모터 상수	K_M	N/√W	19.5
코일 질량	M_C	kg	2.3
작업 반경	-	mm	763.9
최대 회전 속도	V_{max}	rpm	60
자석 피치 (N극에서 S극)	-	Deg	1.8
연속 출력	P_c	W	1040

A : 연속 영역
B : 단속 영역



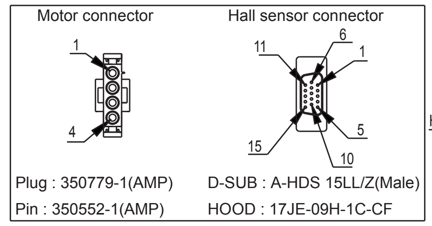
· 주의 : 입력 전압이 3상 AC220V의 경우입니다.

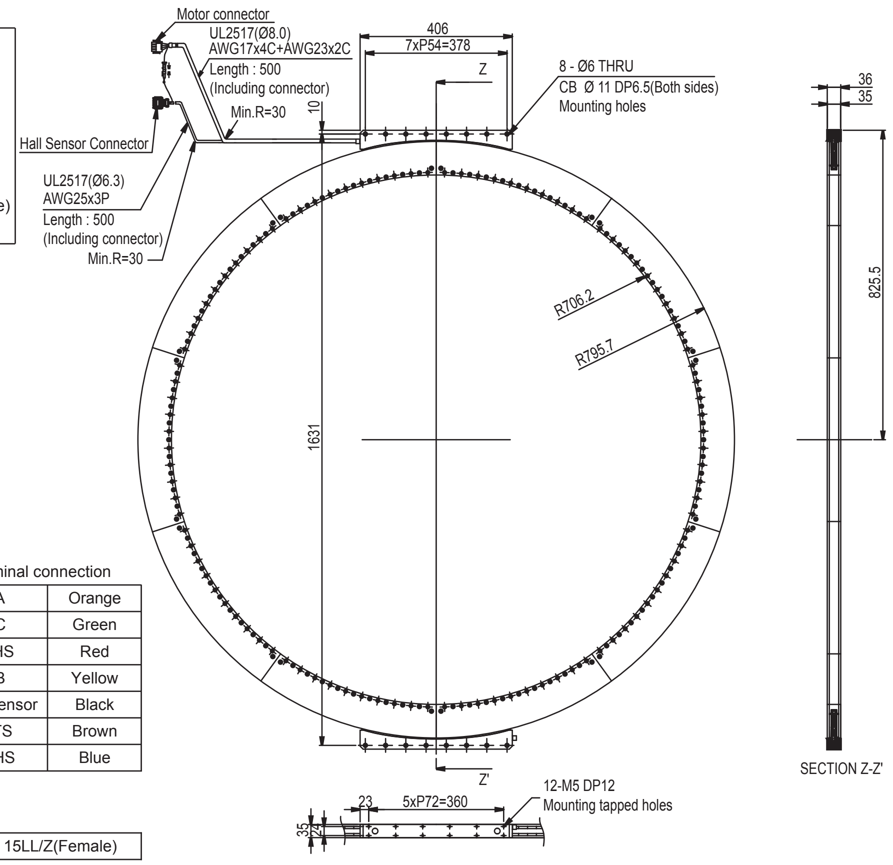
외형도

A76

코일 : JTKA-G76□□

Unit : mm





Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

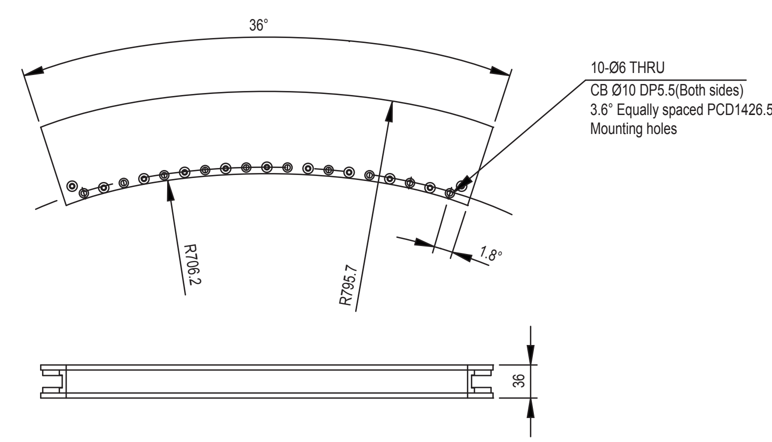
Mating
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

Mating
D-SUB : A-HDF 15LL/Z(Female)

자석판 : JTKA-M76A□□

Unit : mm

No.	Magnet assembly	Weight[kg]
1	JTKA-M76A36	7.4



April 2019

Warning

Be sure to read carefully and check User's manual. Violation of any warning can result in serious and fatal injury, and/or damage to people, products or systems.

Installation
· Never place or operate products in an environment subject to water, corrosive gases, flammable gases, or other combustible substances.

Wiring
· Connect the Frame Ground(FG or G) terminal to class three ground.
· Do not connect a three-phase power supply directly into motor power output lines : U, V, or W.

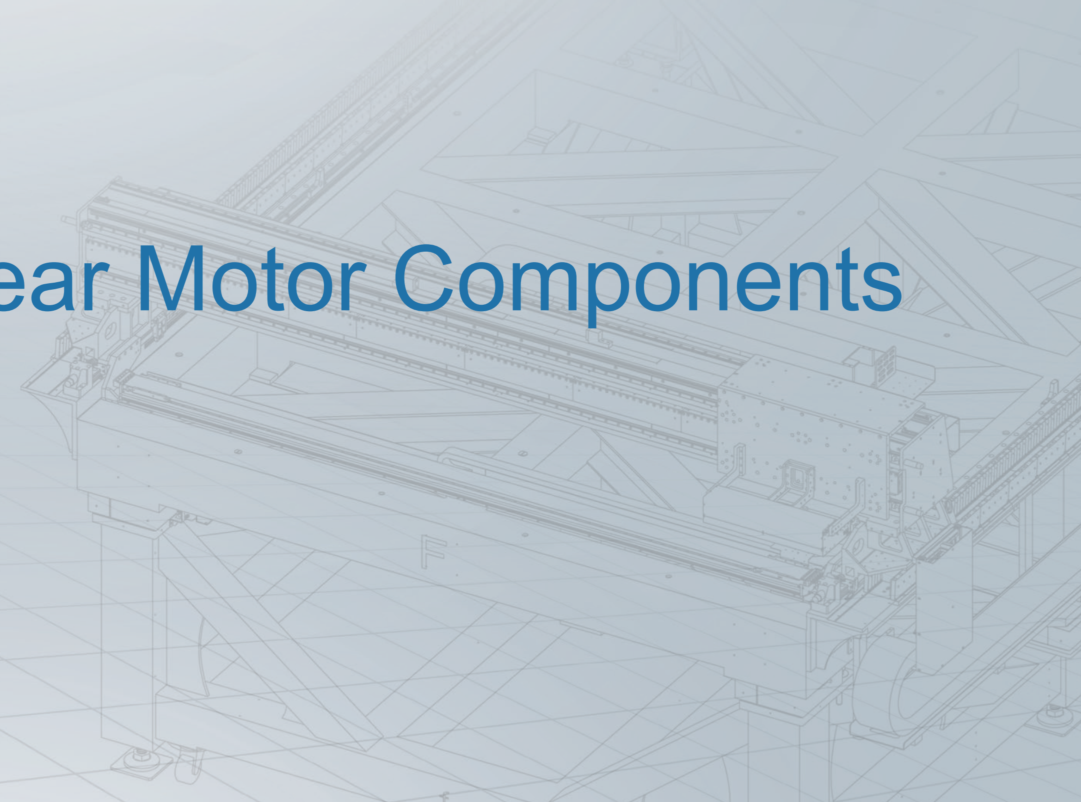
Operation
· Never touch any moving parts while the motor is operating.
· Never start operating the motor without first attaching the motor firmly to the frame or base
· Operate the motor alone without any attachment or accessories to verify it is functioning properly.
· Adjust or recalibrate parameters of other accessories or components to match the motor's parameters.
· Make sure that the emergency stop works properly at any time before starting the motor.

Maintenance and Inspection
· Do not unscrew the cover of the motor mechanism or servo driver, while power is on.
· Do not touch terminals for five minutes after power has been turned OFF.
· Never touch the inside of the servo driver.
· Do not disassemble the motor.
· Do not disassemble the servo driver.
· Do not change connectors and wires while power is ON.

JUSTEK Linear Motion Technology
JUSTEK, Inc.
630-46, Nambu-daero, Jinwi-myeon,
Pyeongtaek-si, Gyeonggi-do, Korea, zip-code 17711
Tel. +82-31-647-5500 Fax. +82-31-647-5555

www.justek.com English

Linear Motor Components



JUSTEK Linear Motion Technology

Type Designation

Coil Model Number

JTKC-G3006A

- JTK Series
- Motor Type
  - C : Iron-core
  - L : Coreless
  - W : Double-sided Iron-core
  - A : Arc
- G : Coil
- Series
  - Iron-core Type : 30, 56, A0 Series
  - Coreless Type : 15, 24, 36, 51 Series
  - Double-sided Iron-core Type : 45, 74 Series
  - Arc Type : 30, 42, 50, 61, 65, 76 Series
- Coil Length (x10mm)
- Coil Type

* Contact JUSTEK for air-cooled or water-cooled motors.

Magnet Track Model Number

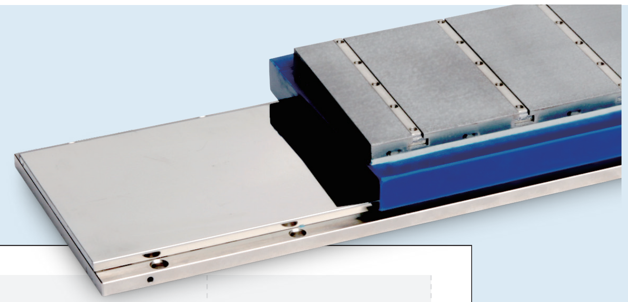
JTKC-M30180

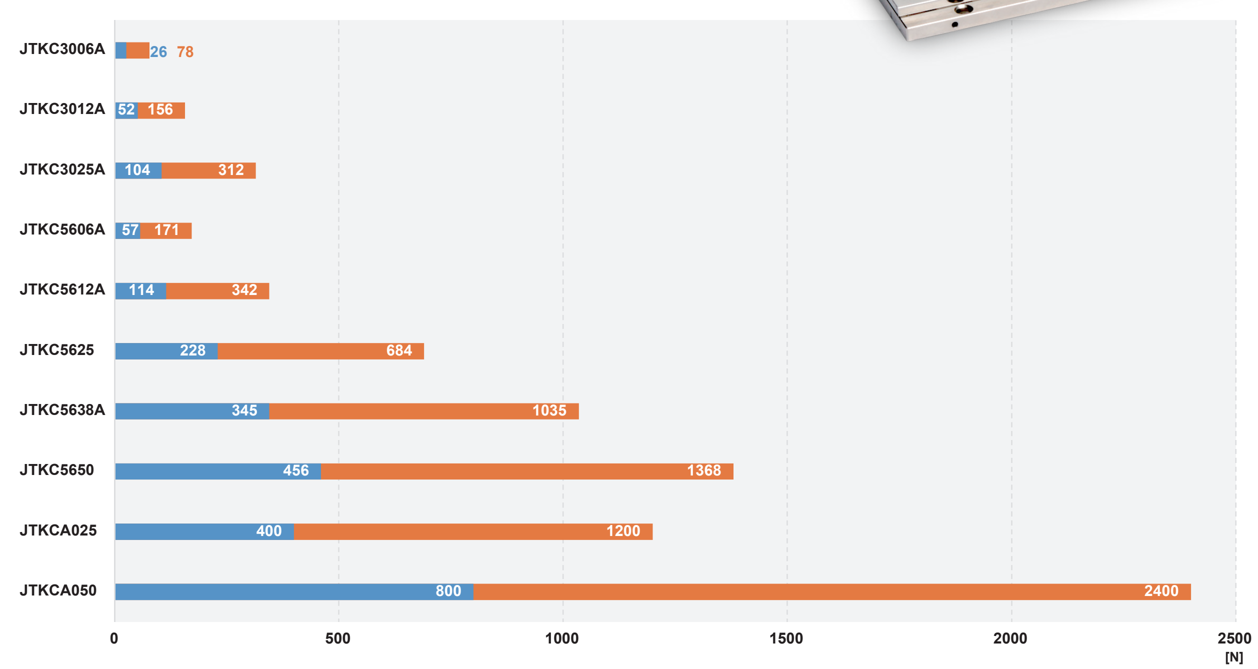
- JTK Series
- Motor Type
  - C : Iron-core
  - L : Coreless
  - W : Double-sided Iron-core
  - A : Arc
- M : Magnet Track
- Series
  - Iron-core Type : 30, 56, A0 Series
  - Coreless Type : 15, 24, 36, 51 Series
  - Double-sided Iron-core Type : 45, 74 Series
  - Arc Type : 30, 42, 50, 61, 65, 76 Series
- Magnet Track Length (mm) : □□□
  Magnet Track Angle (deg) : A□□

Contents

JTKC Series

Iron-core Type Linear Motor

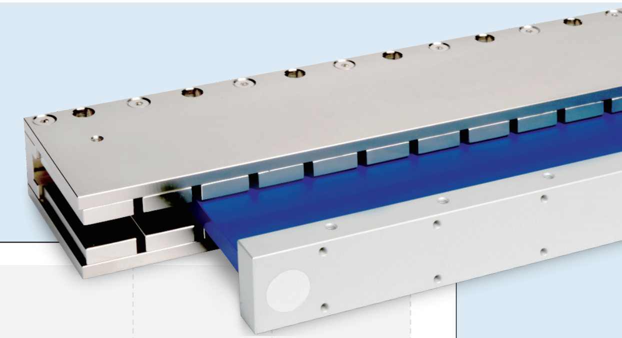


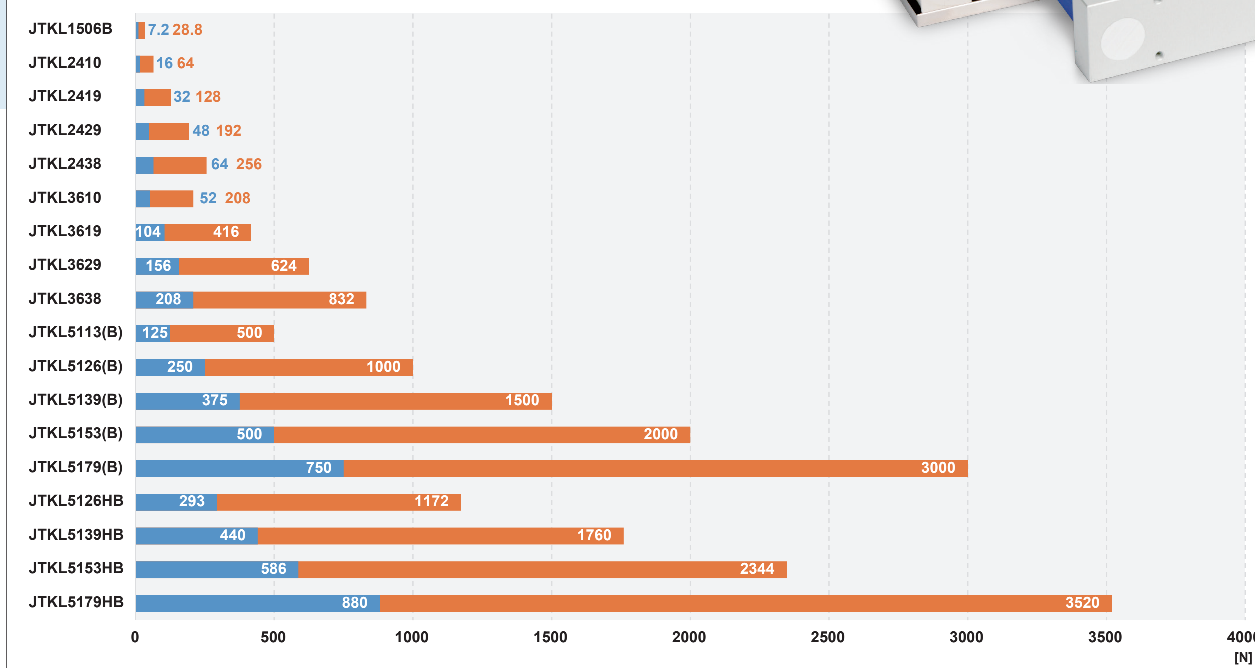


	JTKC3006A	JTKC3012A	JTKC3025A	JTKC5606A	JTKC5612A	JTKC5625	JTKC5638A	JTKC5650	JTKCA025	JTKCA050
Peak Force	78	156	312	171	342	684	1035	1368	1200	2400
Continuous Force	26	52	104	57	114	228	345	456	400	800

JTKL Series

Coreless Type Linear Motor



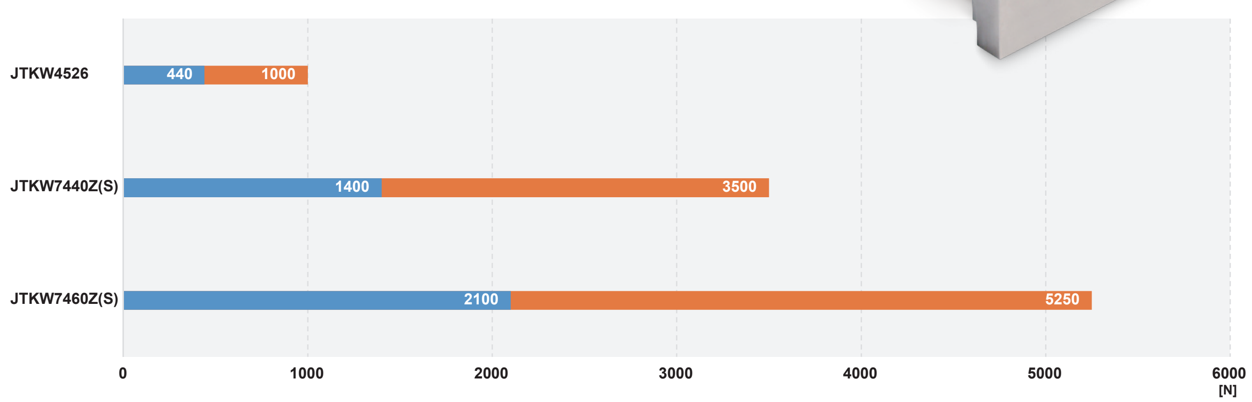


	JTKL1506B	JTKL2410	JTKL2419	JTKL2429	JTKL2438	JTKL3610	JTKL3619	JTKL3629	JTKL3638
Peak Force	28.8	64	128	192	256	208	416	624	832
Continuous Force	7.2	16	32	48	64	52	104	156	208

	JTKL5113(B)	JTKL5126(B)	JTKL5139(B)	JTKL5153(B)	JTKL5179(B)	JTKL5126HB	JTKL5139HB	JTKL5153HB	JTKL5179HB
Peak Force	500	1000	1500	2000	3000	1172	1760	2344	3520
Continuous Force	125	250	375	500	750	293	440	586	880

JTKW Series

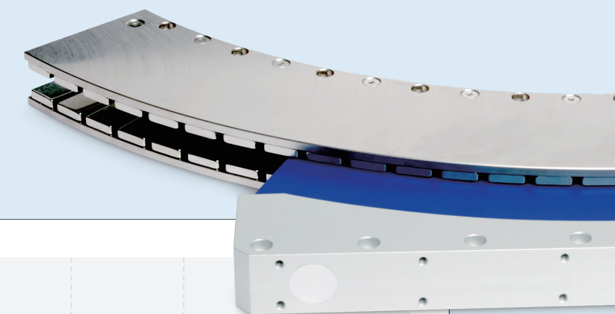
Double-sided Iron-core Type Linear Motor

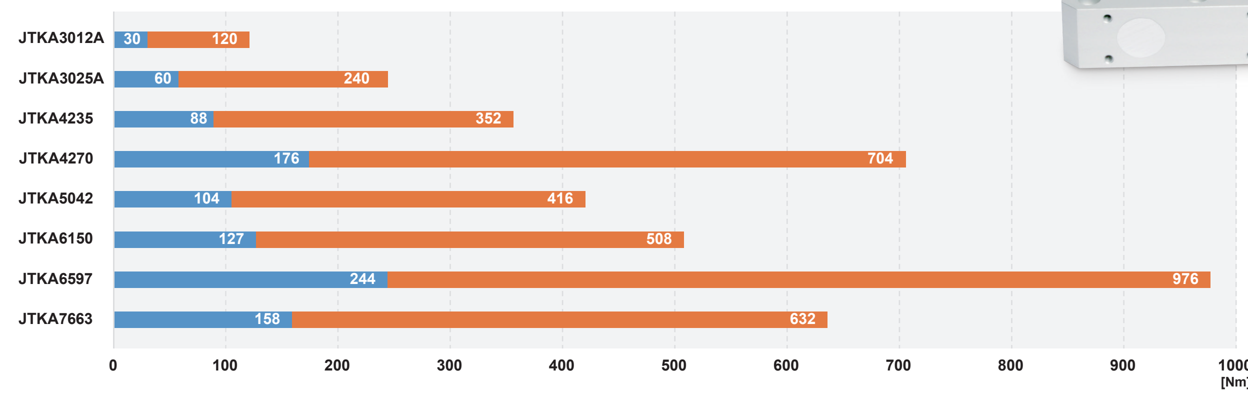


	JTKW4526	JTKW7440Z(S)	JTKW7460Z(S)
Peak Force	1000	3500	5250
Continuous Force	440	1400	2100

JTKA Series

Arc Type Motor

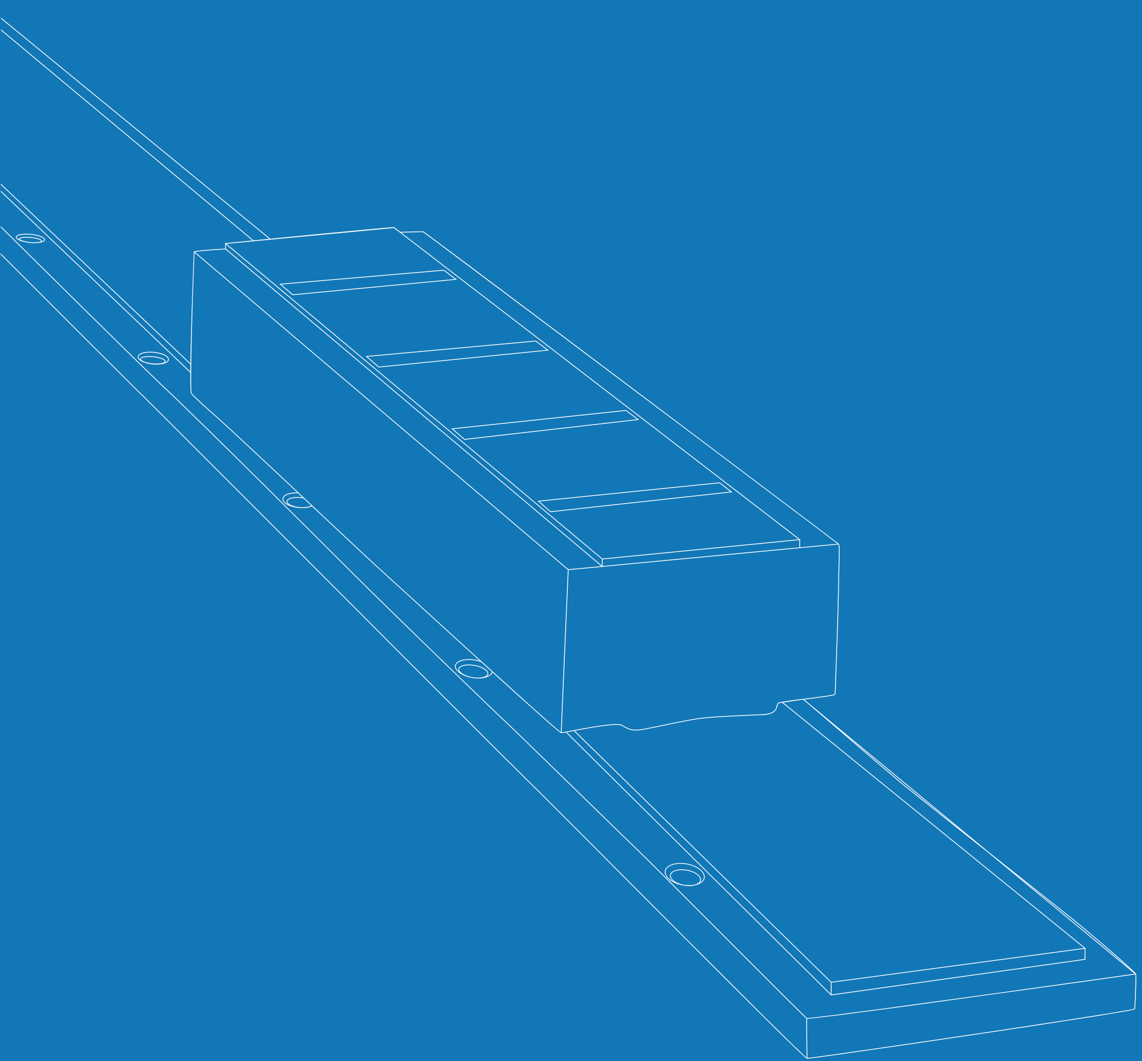




	JTKA3012A	JTKA3025A	JTKA4235	JTKA4270	JTKA5042	JTKA6150	JTKA6597	JTKA7663
Peak Torque	120	240	352	704	416	508	976	632
Continuous Torque	30	60	88	176	104	127	244	158

Iron-core Type

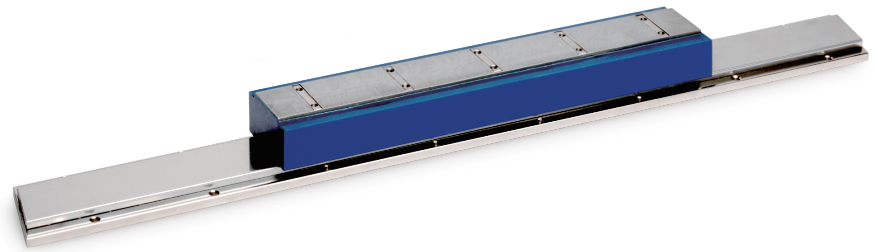
JUSTEK Linear Motors



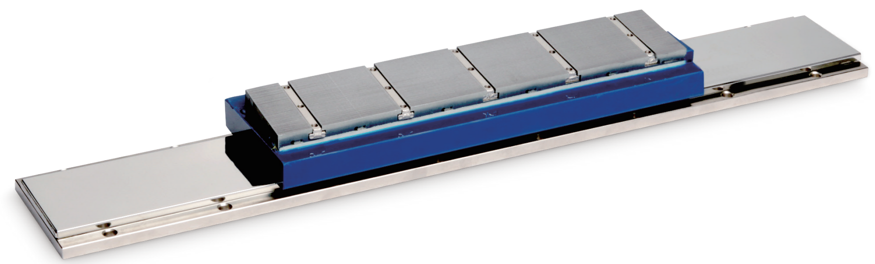
Common Specifications

Insulation Resistance	10MΩ or more (DC 500V)
Dielectric Insulation Voltage	AC 1800V, 15mA, 1sec
Ambient Humidity	20 ~ 80% RH (without condensation or frost)
Ambient Temperature	0 ~ 40°C

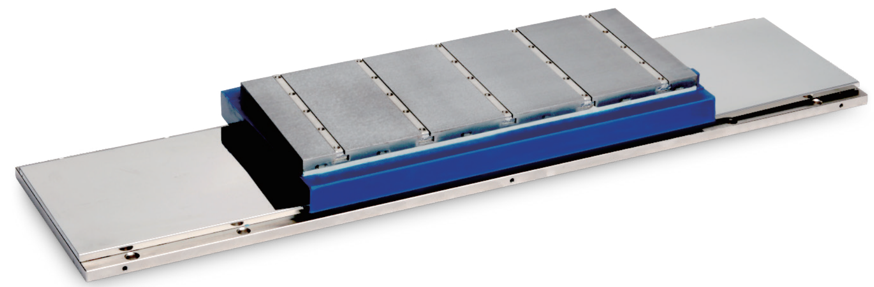
JTKC30A Series



JTKC56(A) Series



JTKCA0 Series



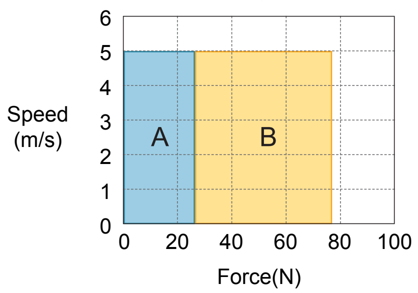
Specifications

C30A

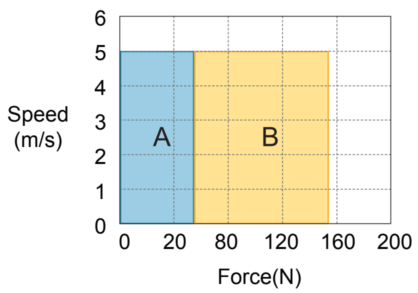
Performance Parameters	Symbol	Unit	Model		
			JTKC3006A	JTKC3012A	JTKC3025A
Continuous Force	F_c	N	26	52	104
Peak Force	F_p	N	78	156	312
Continuous Current	$I_c@T_{max}$	A_{rms}	1	2	4
Peak Current	I_p	A_{rms}	3	6	12
Force Constant	K_f	N/A_{rms}	26.3	26.3	26.3
Electrical Time Constant	T_e	ms	4.1	4.1	3.8
Back EMF Constant (phase to phase)	K_e	V_{rms}/m/s	15.2	15.2	15.2
Resistance (phase to phase at 25°C)	R_s	Ω	5.9	3.0	1.6
Inductance (phase to phase)	L_s	mH	24.4	12.2	6.1
Motor Constant	K_M	$N/\sqrt{W}$	7.8	11.0	15.0
Coil Mass	M_c	kg	0.4	0.8	1.6
Maximum Speed	V_{max}	m/s	5	5	5
Pole Pitch (N to S)	-	mm	15	15	15
Continuous Power	P_c	W	132	263	526

A : Continuous Duty Zone
B : Intermittent Duty Zone

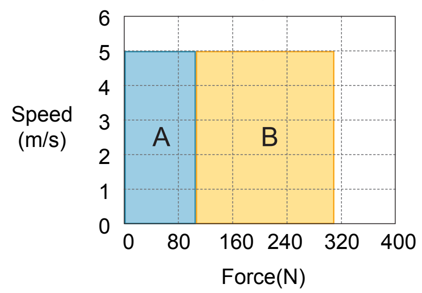
JTKC3006A



JTKC3012A



JTKC3025A



· Note : When supplied input voltage is three phase AC220V

Dimensions

C30A

Coil : JTKC-G30□□A

Unit : mm

Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Mating

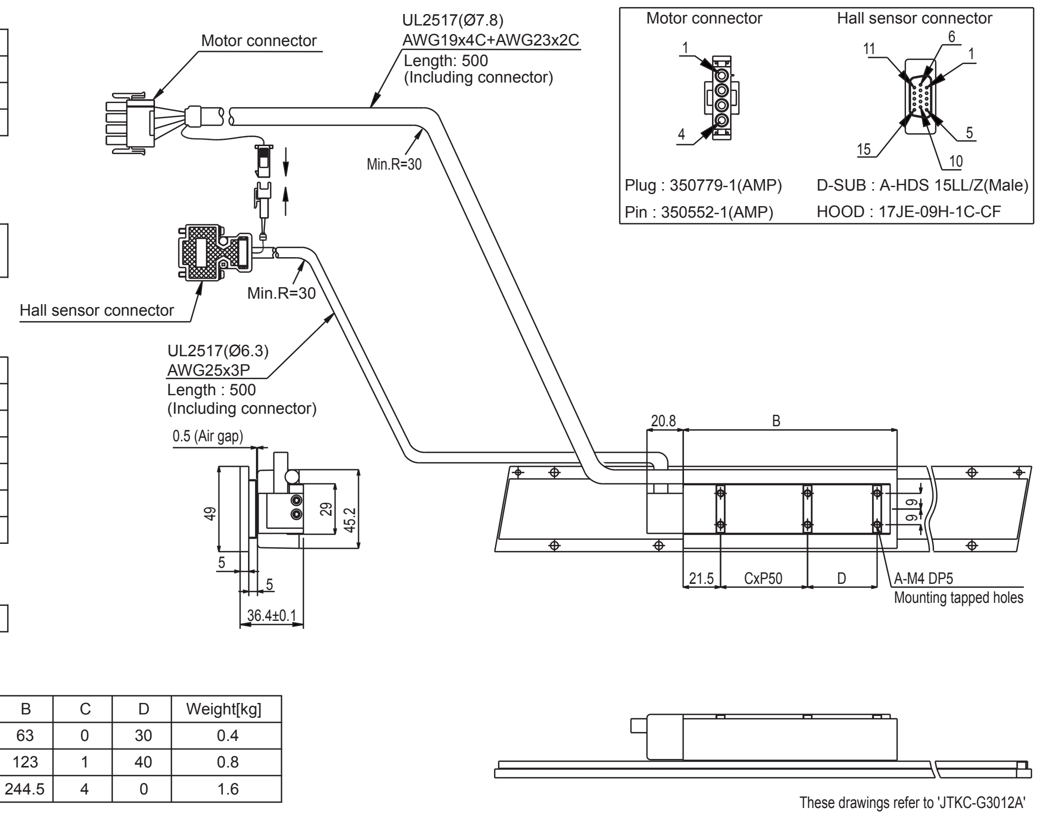
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

D-SUB : A-HDF 15LL/Z(Female)



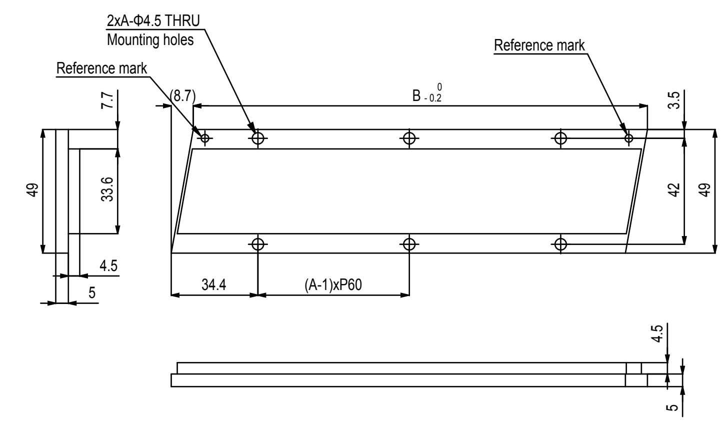
No.	Coil assembly	A	B	C	D	Weight[kg]
1	JTKC-G3006A	4	63	0	30	0.4
2	JTKC-G3012A	6	123	1	40	0.8
3	JTKC-G3025A	10	244.5	4	0	1.6

These drawings refer to 'JTKC-G3012A'

Magnet Track : JTKC-M30□□□

Unit : mm

No.	Magnet assembly	A	B	Weight[kg]
1	JTKC-M30180	3	180	0.55
2	JTKC-M30240	4	240	0.73
3	JTKC-M30300	5	300	0.91
4	JTKC-M30480	8	480	1.46



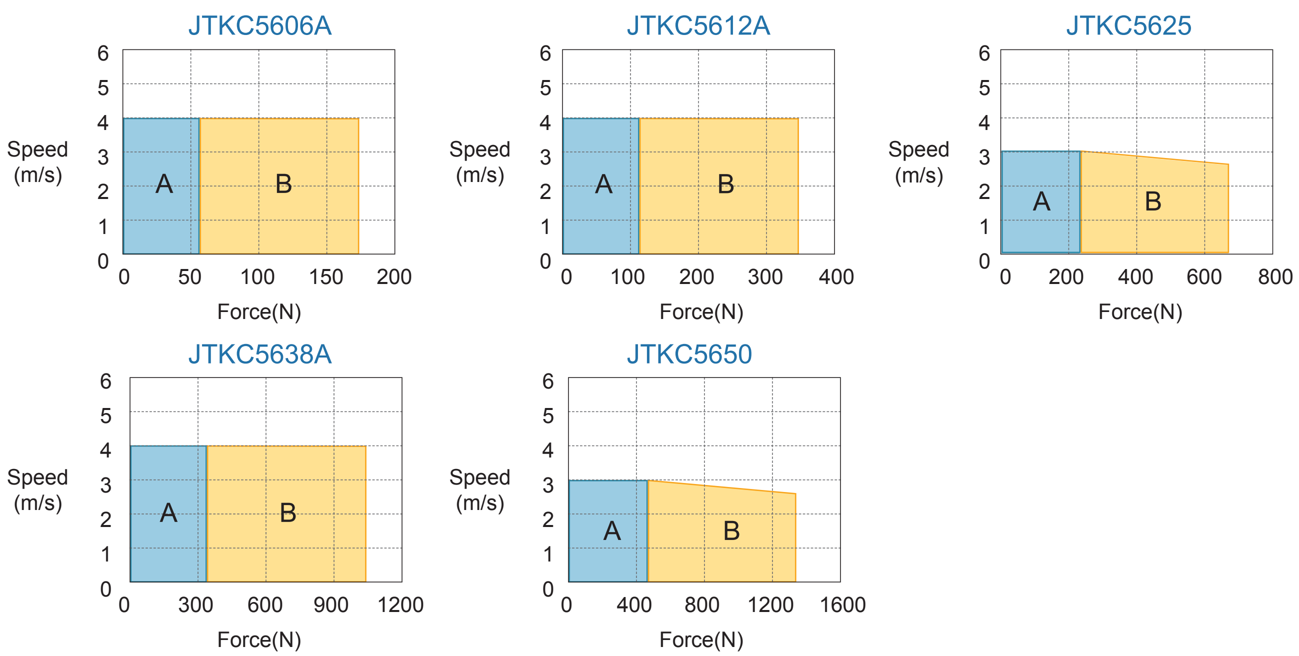
These drawings refer to 'JTKC-M30180'

Specifications

C56(A)

Performance Parameters	Symbol	Unit	Model				
			JTKC5606A	JTKC5612A	JTKC5625	JTKC5638A	JTKC5650
Continuous Force	F_c	N	57	114	228	345	456
Peak Force	F_p	N	171	342	684	1035	1368
Continuous Current	$I_c@T_{max}$	A_{rms}	1.2	2.4	3.6	7.2	7.2
Peak Current	I_p	A_{rms}	3.6	7.2	10.8	21.6	21.6
Force Constant	K_f	N/A_{rms}	47.9	47.9	63.9	47.9	63.9
Electrical Time Constant	T_e	ms	4.6	4.3	4.3	4.1	4.3
Back EMF Constant (phase to phase)	K_e	$V_{rms}/m/s$	27.7	27.7	36.9	27.7	36.9
Resistance (phase to phase at 25°C)	R_s	Ω	9.0	4.7	4.5	1.7	2.3
Inductance (phase to phase)	L_s	mH	41.7	20.1	19.3	6.8	9.7
Motor Constant	K_M	$N/\sqrt{W}$	11.5	16.0	21.8	27.0	30.8
Coil Mass	M_C	kg	0.7	1.4	2.5	3.8	5.0
Maximum Speed	V_{max}	m/s	4	4	3	4	3
Pole Pitch (N to S)	-	mm	15	15	15	15	15
Continuous Power	P_C	W	230	460	690	1380	1380

A : Continuous Duty Zone
B : Intermittent Duty Zone



· Note : When supplied input voltage is three phase AC220V

Dimensions

C56(A)

Coil : JTKC-G56□□(A)

Unit : mm

Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Mating

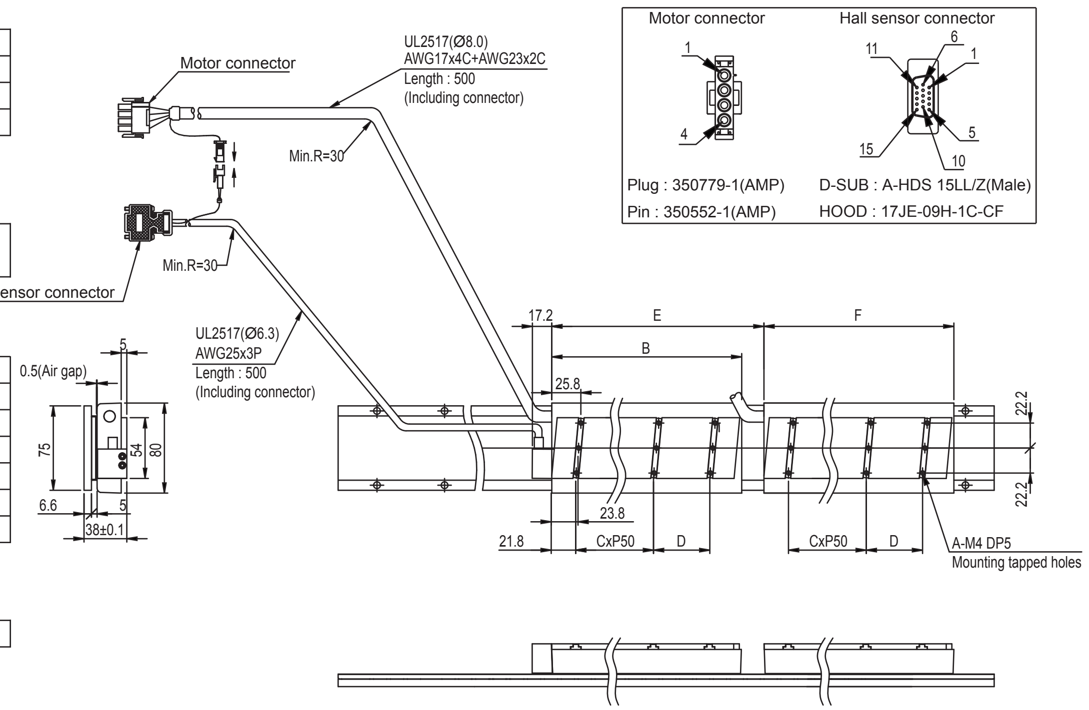
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

D-SUB : A-HDF 15LL/Z(Female)



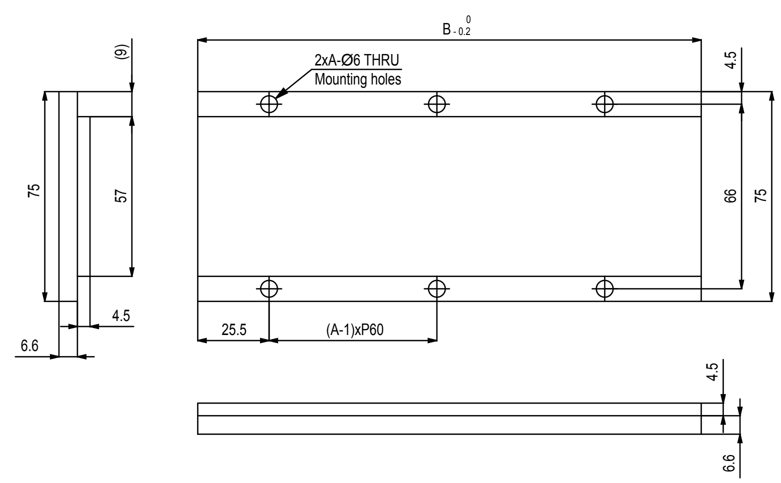
These drawings refer to 'JTKC-G5650'

No.	Coil assembly	A	B	C	D	E	F	Weight[kg]	Cable
1	JTKC-G5606A	6	65.5	0	29.5	N/A	N/A	0.7	UL2517(Ø7.8) AWG19x4C
2	JTKC-G5612A	9	128	1	40	N/A	N/A	1.4	UL2517(Ø7.8) AWG19x4C
3	JTKC-G5625	15	250	4	N/A	N/A	N/A	2.5	UL2517(Ø7.8) AWG19x4C
4	JTKC-G5638A	24	190	3	N/A	210	=B	3.8	UL2517(Ø8.0) AWG17x4C
5	JTKC-G5650	30	250	4	N/A	270	=B	5.0	UL2517(Ø8.0) AWG17x4C

Magnet Track : JTKC-M56□□□

Unit : mm

No.	Magnet assembly	A	B	Weight[kg]
1	JTKC-M56180	3	180	0.93
2	JTKC-M56240	4	240	1.24
3	JTKC-M56300	5	300	1.55
4	JTKC-M56480	8	480	2.48



These drawings refer to 'JTKC-M56180'

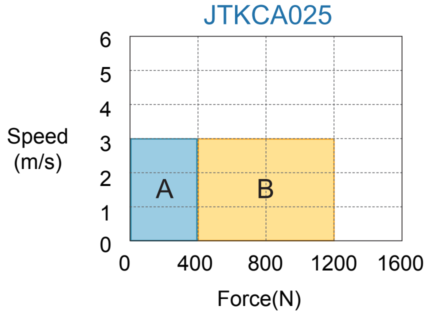
Specifications

CA0

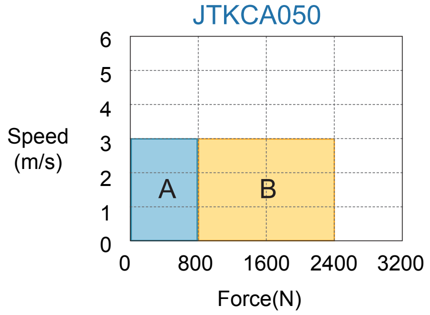
Performance Parameters	Symbol	Unit	Model	
			JTKCA025	JTKCA050
Continuous Force	F_c	N	400	800
Peak Force	F_p	N	1200	2400
Continuous Current	$I_c@T_{max}$	A_{rms}	6	12
Peak Current	I_p	A_{rms}	18	36
Force Constant	K_f	N/A_{rms}	66.7	66.7
Electrical Time Constant	T_e	ms	4.3	4.5
Back EMF Constant (phase to phase)	K_e	$V_{rms}/m/s$	38.5	38.5
Resistance (phase to phase at 25°C)	R_s	Ω	1.9	0.9
Inductance (phase to phase)	L_s	mH	8.1	4.1
Motor Constant	K_M	$N/\sqrt{W}$	35.0	50.8
Coil Mass	M_C	kg	4.3	8.6
Maximum Speed	V_{max}	m/s	3	3
Pole Pitch (N to S)	-	mm	15	15
Continuous Power	P_C	W	1200	2400

A : Continuous Duty Zone
B : Intermittent Duty Zone

JTKCA025



JTKCA050



· Note : When supplied input voltage is three phase AC220V

Dimensions

CA0

Coil : JTKC-GA0□□

Unit : mm

Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Mating

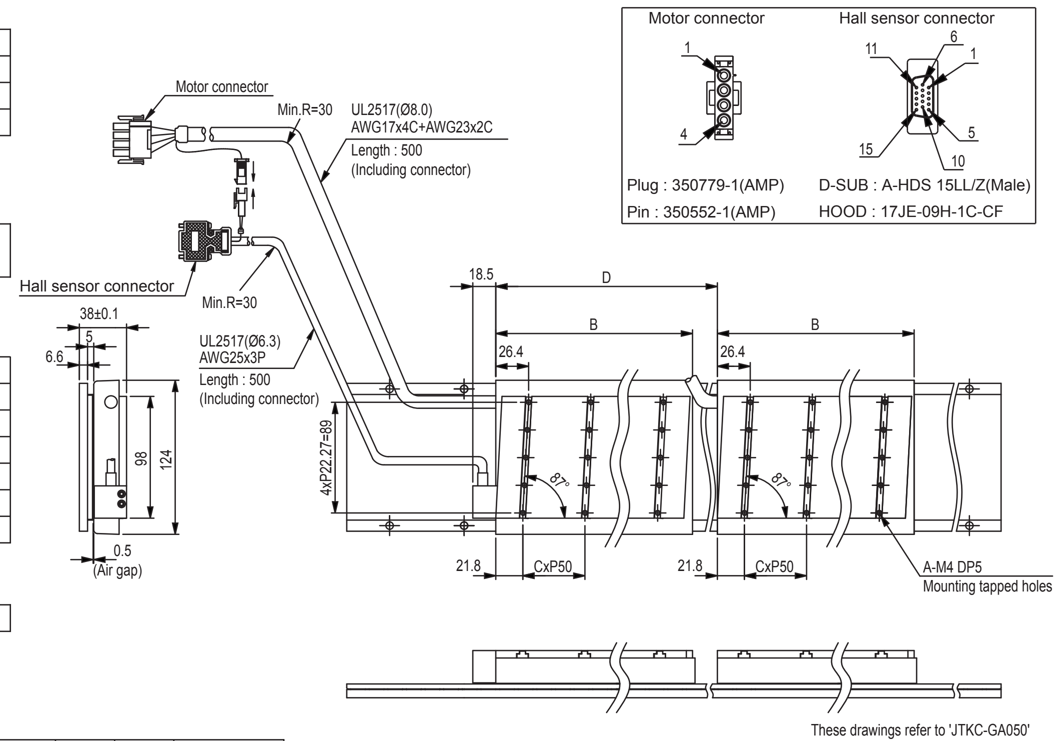
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

D-SUB : A-HDF 15LL/Z(Female)

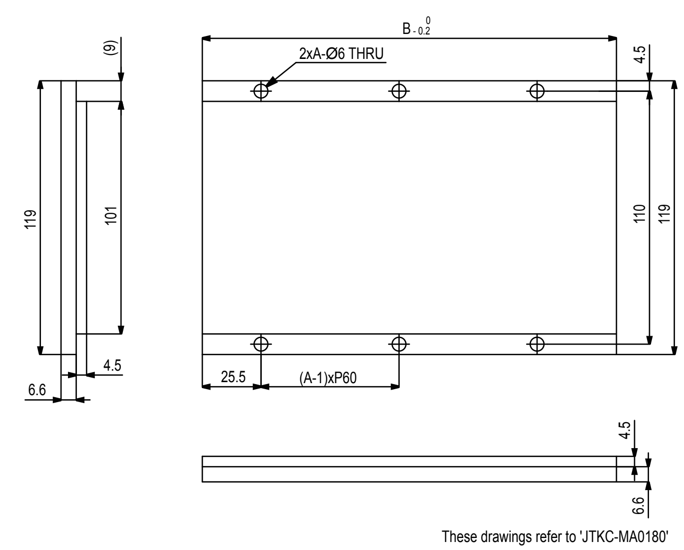


No.	Coil assembly	A	B	C	D	Weight[kg]
1	JTKC-GA025	25	250	4	N/A	4.3
2	JTKC-GA050	50	250	4	300	8.6

Magnet Track : JTKC-MA0□□□

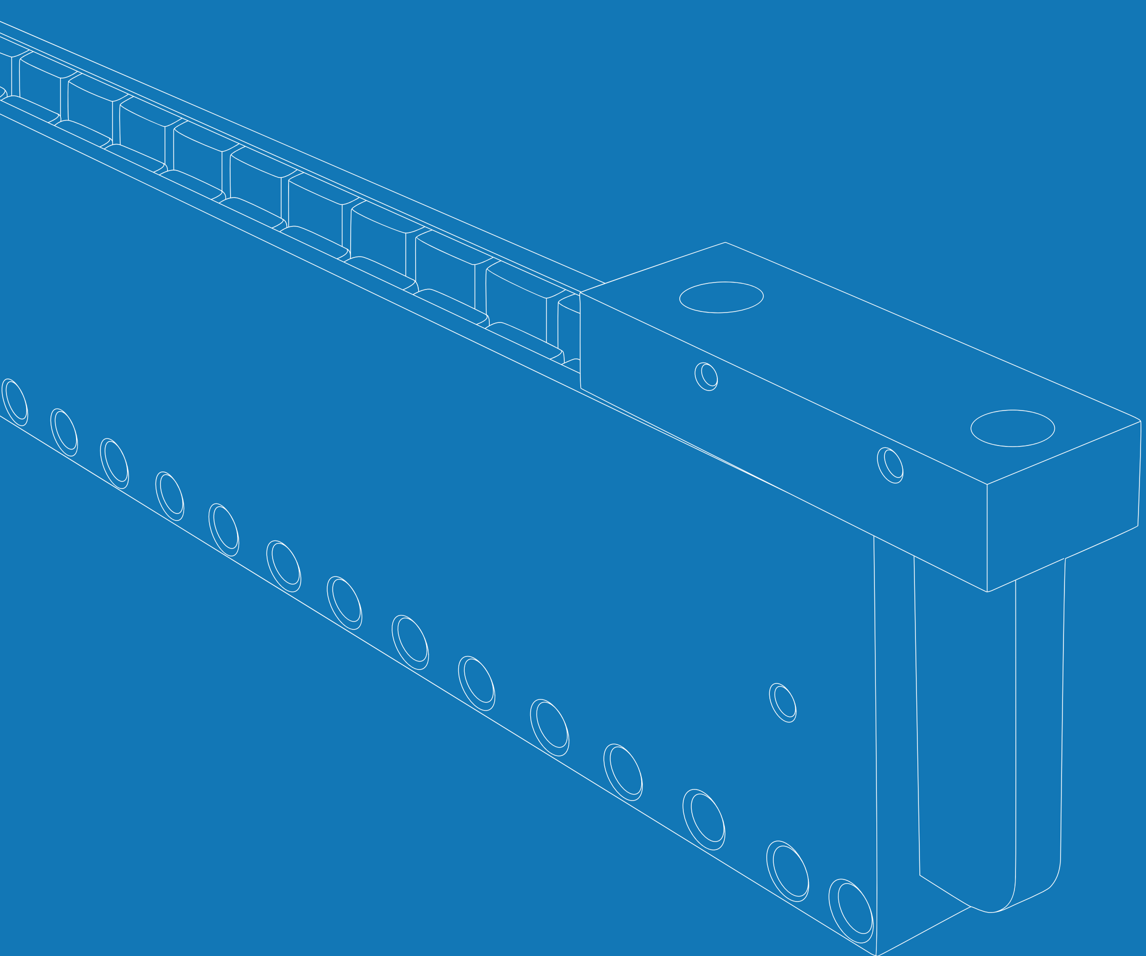
Unit : mm

No.	Magnet assembly	A	B	Weight[kg]
1	JTKC-MA0180	3	180	1.5
2	JTKC-MA0240	4	240	2.0
3	JTKC-MA0300	5	300	2.5
4	JTKC-MA0480	8	480	4.1



Coreless Type

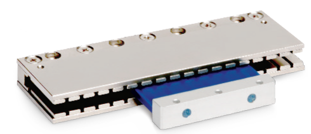
JUSTEK Linear Motors



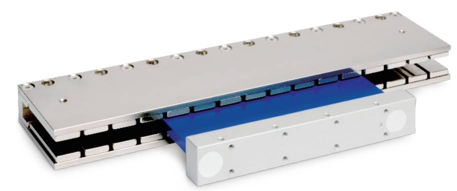
Common Specifications

Insulation Resistance	10MΩ or more (DC 500V)
Dielectric Insulation Voltage	AC 1800V, 15mA, 1sec
Ambient Humidity	20 ~ 80% RH (without condensation or frost)
Ambient Temperature	0 ~ 40°C

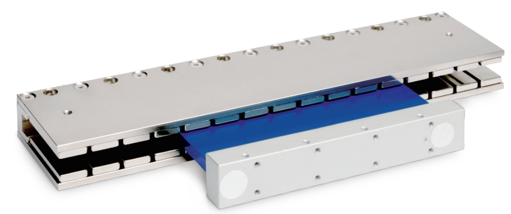
JTKL15B Series



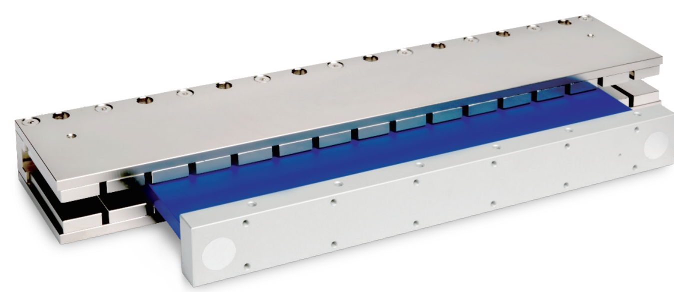
JTKL24 Series



JTKL36 Series



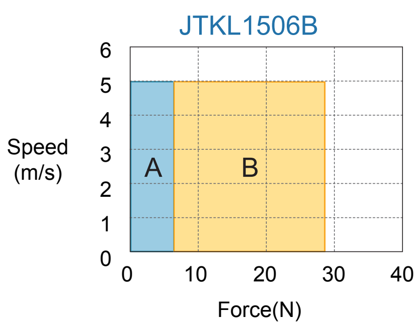
JTKL51(B),HB Series



Specifications

Performance Parameters	Symbol	Unit	Model JTKL1506B
Continuous Force	F_c	N	7.2
Peak Force	F_p	N	28.8
Continuous Current	$I_c@T_{max}$	A_{rms}	0.8
Peak Current	I_p	A_{rms}	3.2
Force Constant	K_f	N/A_{rms}	9
Electrical Time Constant	T_e	ms	0.2
Back EMF Constant (phase to phase)	K_e	$V_{rms}/m/s$	5.2
Resistance (phase to phase at 25°C)	R_s	Ω	4
Inductance (phase to phase)	L_s	mH	0.62
Motor Constant	K_M	$N/\sqrt{W}$	3.2
Coil Mass	M_C	g	92
Maximum Speed	V_{max}	m/s	5
Pole Pitch (N to S)	-	mm	8.4
Continuous Power	P_C	W	36

A : Continuous Duty Zone
B : Intermittent Duty Zone



· Note : When supplied input voltage is three phase AC220V

Dimensions

Coil : JTKL-G15□□B

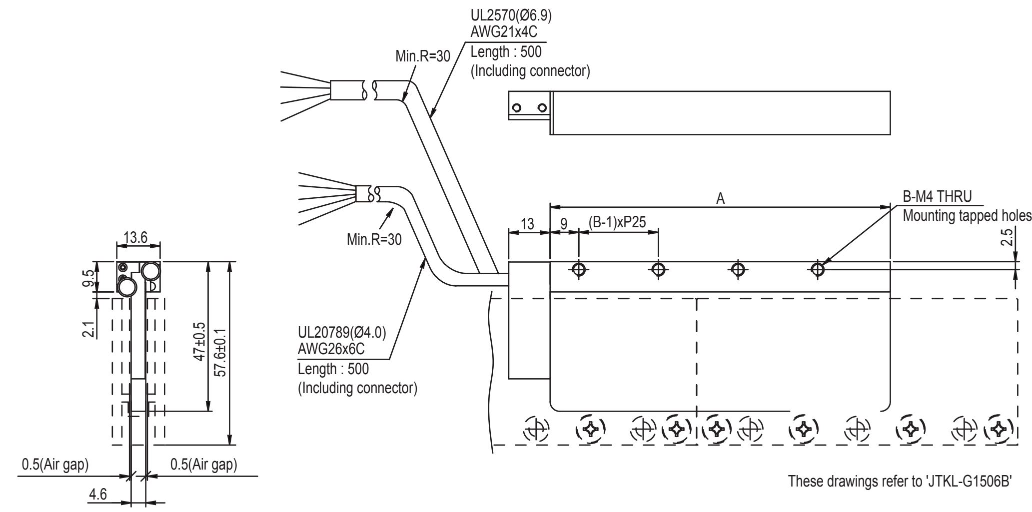
Unit : mm

Motor terminal connection

Phase U	Black
Phase V	White
Phase W	Red
Frame ground	Green

Hall sensor terminal connection

VCC	Red
GND	Black
Hall A	Green
Hall B	Yellow
Hall C	Brown

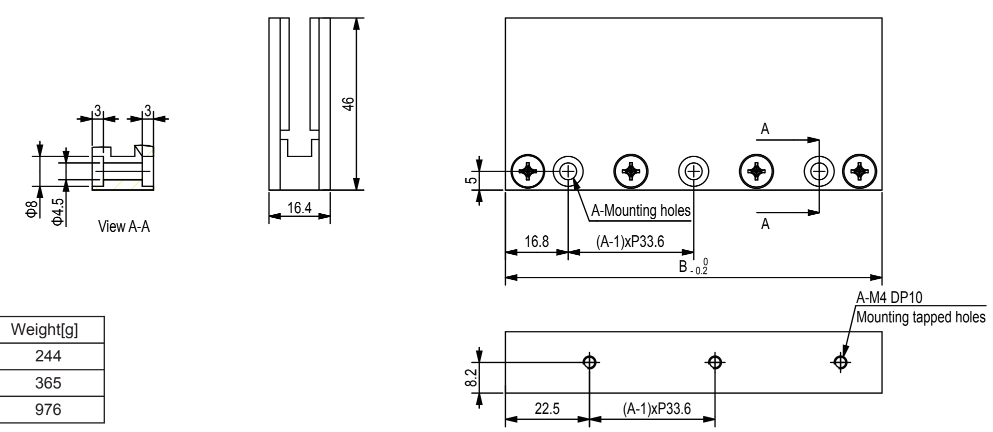


These drawings refer to 'JTKL-G1506B'

No.	Coil assembly	A	B	Weight[g]
1	JTKL-G1506B	69.2	3	91.4

Magnet Track : JTKL-M15□□□

Unit : mm



These drawings refer to 'JTKL-M15100'

No.	Magnet assembly	A	B	Weight[g]
1	JTKL-M15067	2	67.2	244
2	JTKL-M15100	3	100.8	365
3	JTKL-M15269	8	268.8	976

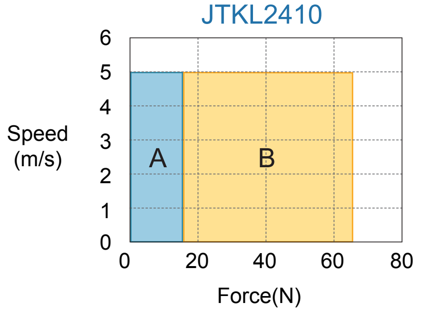
Specifications

L24

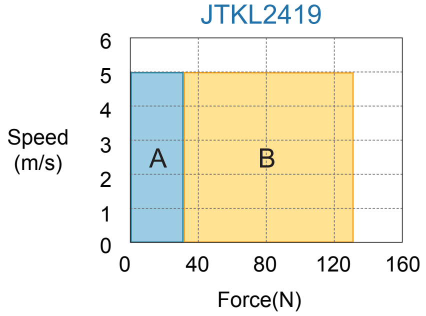
Performance Parameters	Symbol	Unit	Model			
			JTKL2410	JTKL2419	JTKL2429	JTKL2438
Continuous Force	F_c	N	16	32	48	64
Peak Force	F_p	N	64	128	192	256
Continuous Current	$I_c@T_{max}$	A_{rms}	1.1	2.1	3.2	4.2
Peak Current	I_p	A_{rms}	4.2	8.4	12.6	16.8
Force Constant	K_f	N/A_{rms}	15.2	15.2	15.2	15.2
Electrical Time Constant	T_e	ms	0.7	0.7	0.7	0.7
Back EMF Constant (phase to phase)	K_e	$V_{rms}/m/s$	8.8	8.8	8.8	8.8
Resistance (phase to phase at 25°C)	R_s	Ω	5.0	2.5	1.7	1.3
Inductance (phase to phase)	L_s	mH	3.6	1.8	1.2	0.9
Motor Constant	K_M	$N/\sqrt{W}$	4.9	7.0	8.5	9.9
Coil Mass	M_C	kg	0.3	0.6	0.9	1.2
Maximum Speed	V_{max}	m/s	5	5	5	5
Pole Pitch (N to S)	-	mm	24	24	24	24
Continuous Power	P_C	W	80	160	240	320

A : Continuous Duty Zone
B : Intermittent Duty Zone

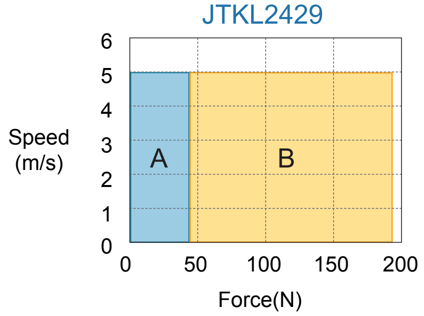
JTKL2410



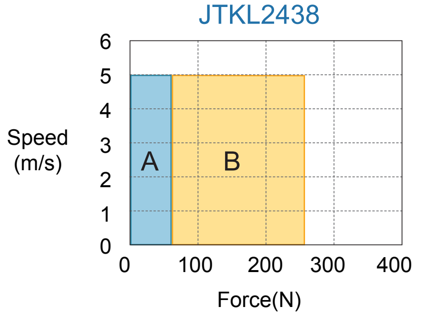
JTKL2419



JTKL2429



JTKL2438



· Note : When supplied input voltage is three phase AC220V

Dimensions

L24

Coil : JTKL-G24□□

Unit : mm

Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Mating

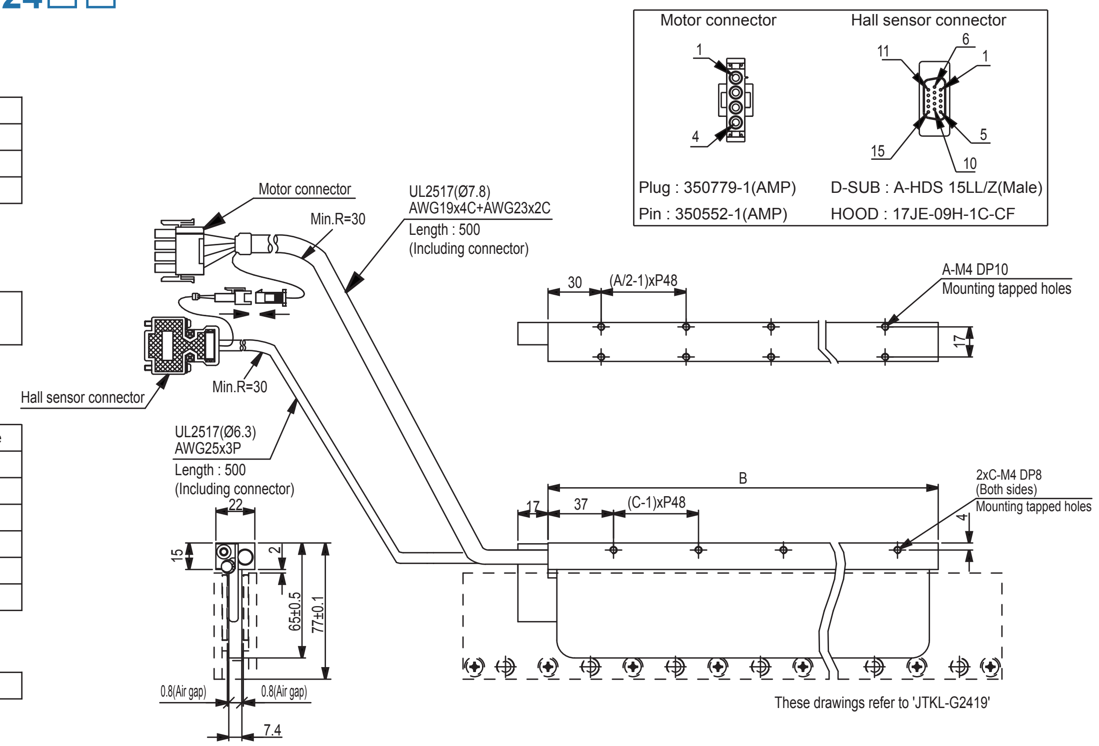
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

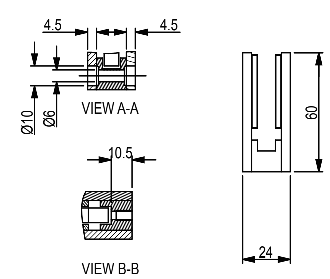
D-SUB : A-HDF 15LL/Z(Female)

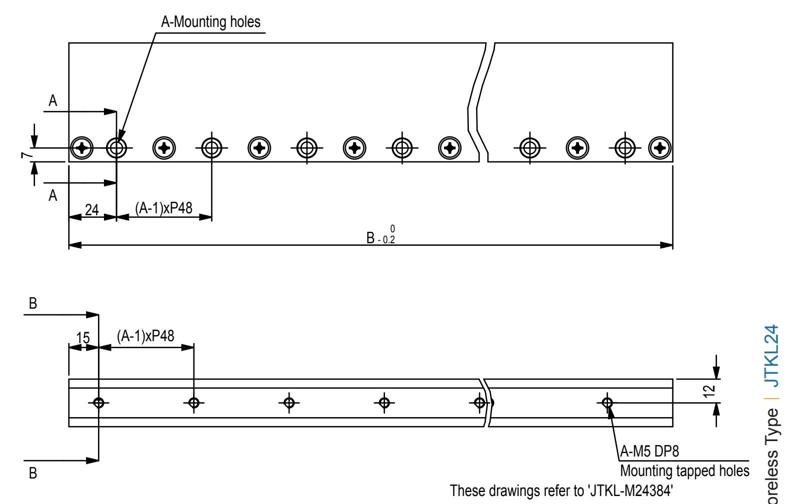


No.	Coil assembly	A	B	C	Weight[kg]
1	JTKL-G2410	4	108	2	0.3
2	JTKL-G2419	8	204	4	0.6
3	JTKL-G2429	12	300	6	0.9
4	JTKL-G2438	16	396	8	1.2

Magnet Track : JTKL-M24□□□

Unit : mm





No.	Magnet assembly	A	B	Weight[kg]
1	JTKL-M24144	3	144	1.0
2	JTKL-M24192	4	192	1.3
3	JTKL-M24240	5	240	1.6
4	JTKL-M24384	8	384	2.6

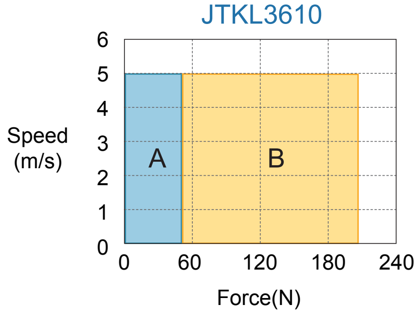
Specifications

L36

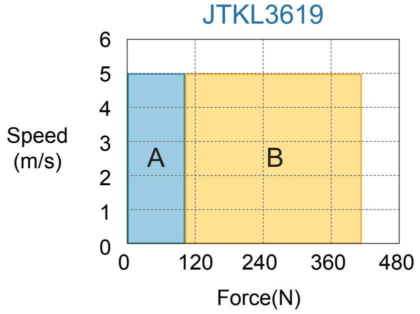
Performance Parameters	Symbol	Unit	Model			
			JTKL3610	JTKL3619	JTKL3629	JTKL3638
Continuous Force	F_c	N	52	104	156	208
Peak Force	F_p	N	208	416	624	832
Continuous Current	$I_c@T_{max}$	A_{rms}	1.5	3.0	4.5	6.0
Peak Current	I_p	A_{rms}	6	12	18	24
Force Constant	K_f	N/A_{rms}	34.7	34.7	34.7	34.7
Electrical Time Constant	T_e	ms	1.2	1.1	1.1	1.0
Back EMF Constant (phase to phase)	K_e	$V_{rms}/m/s$	20	20	20	20
Resistance (phase to phase at 25°C)	R_s	Ω	5.9	3.0	2.1	1.7
Inductance (phase to phase)	L_s	mH	6.9	3.5	2.3	1.8
Motor Constant	K_M	$N/\sqrt{W}$	10.3	14.4	17.3	19.5
Coil Mass	M_C	kg	0.6	1.2	1.8	2.4
Maximum Speed	V_{max}	m/s	5	5	5	5
Pole Pitch (N to S)	-	mm	24	24	24	24
Continuous Power	P_c	W	260	520	780	1040

A : Continuous Duty Zone
B : Intermittent Duty Zone

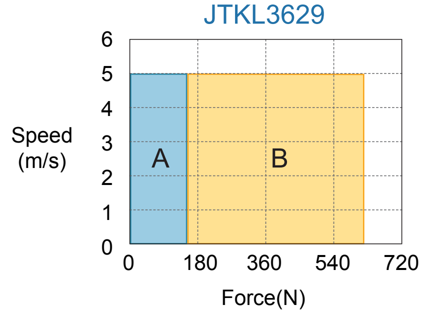
JTKL3610



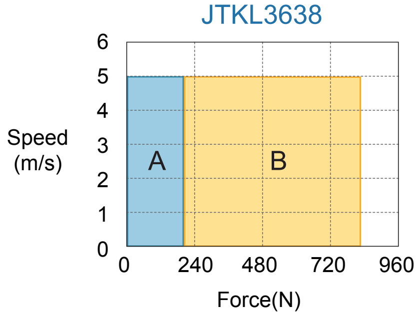
JTKL3619



JTKL3629



JTKL3638



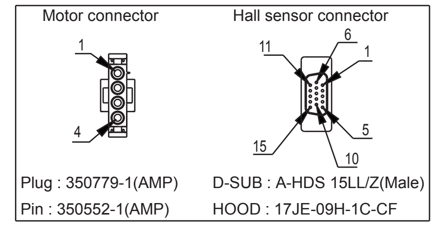
· Note : When supplied input voltage is three phase AC220V

Dimensions

L36

Coil : JTKL-G36□□

Unit : mm



Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Mating

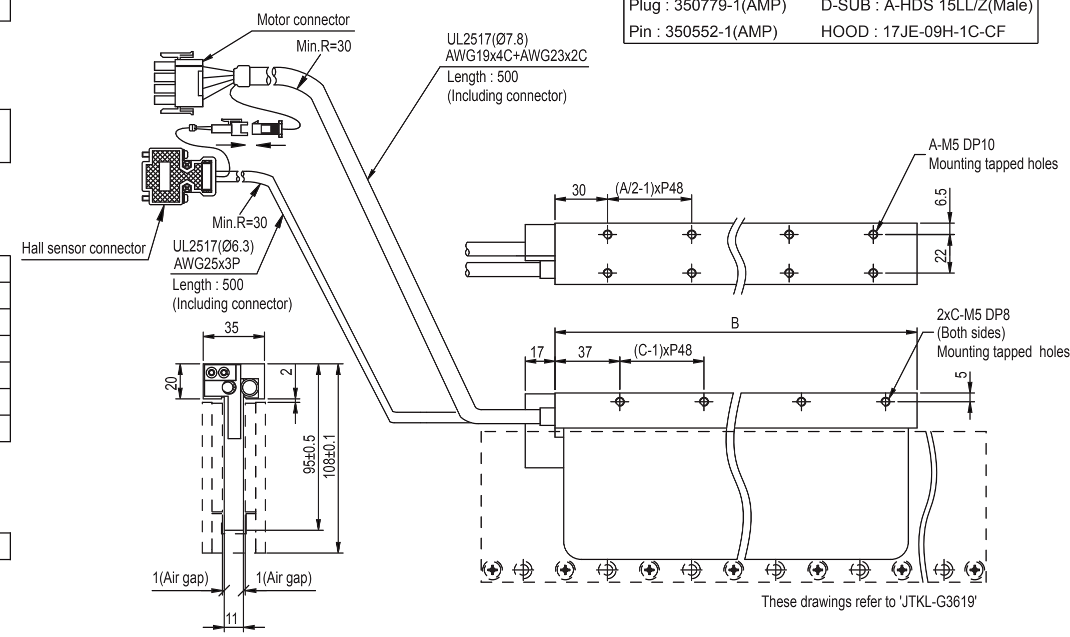
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

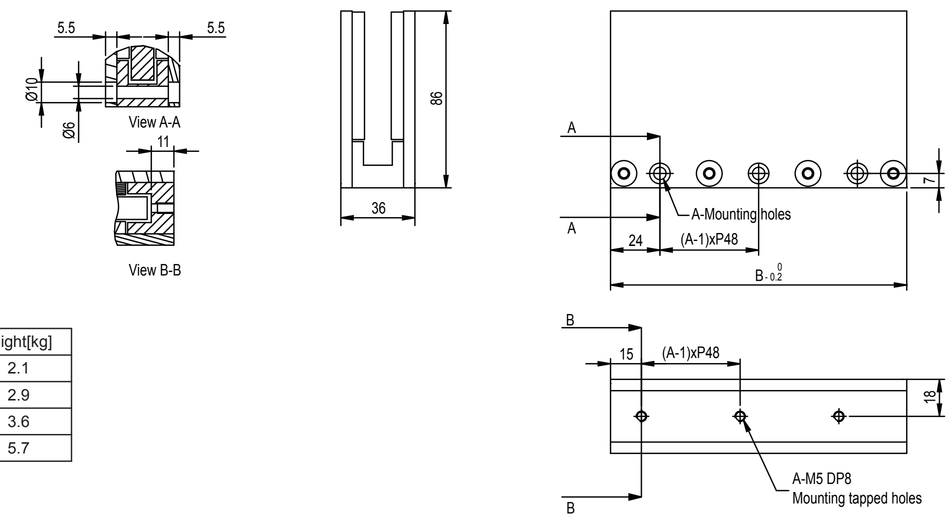
D-SUB : A-HDF 15LL/Z(Female)



No.	Coil assembly	A	B	C	Weight[kg]	Cable
1	JTKL-G3610	4	108	2	0.6	UL2517(Ø7.8) AWG19x4C
2	JTKL-G3619	8	204	4	1.2	UL2517(Ø7.8) AWG19x4C
3	JTKL-G3629	12	300	6	1.8	UL2517(Ø7.8) AWG19x4C
4	JTKL-G3638	16	396	8	2.4	UL2517(Ø8.0) AWG17x4C

Magnet Track : JTKL-M36□□□

Unit : mm



No.	Magnet assembly	A	B	Weight[kg]
1	JTKL-M36144	3	144	2.1
2	JTKL-M36192	4	192	2.9
3	JTKL-M36240	5	240	3.6
4	JTKL-M36384	8	384	5.7

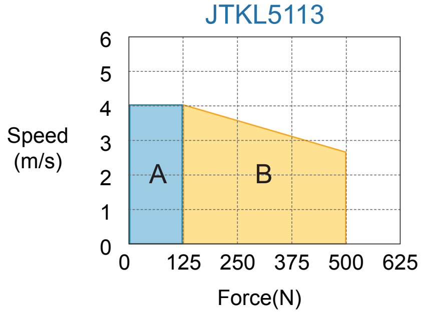
Specifications

L51

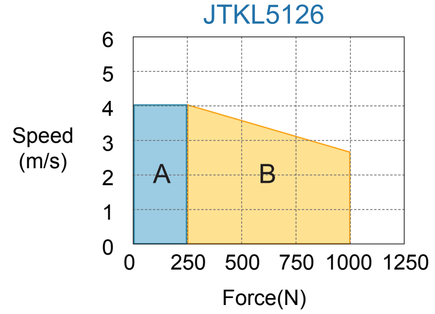
Performance Parameters	Symbol	Unit	Model				
			JTKL5113	JTKL5126	JTKL5139	JTKL5153	JTKL5179
Continuous Force	F_c	N	125	250	375	500	750
Peak Force	F_p	N	500	1000	1500	2000	3000
Continuous Current	I_c@T_{max}	A_{rms}	2	4	6	8	12
Peak Current	I_p	A_{rms}	8	16	24	32	48
Force Constant	K_f	N/A_{rms}	62.5	62.5	62.5	62.5	62.5
Electrical Time Constant	T_e	ms	2.0	2.0	1.9	1.8	1.8
Back EMF Constant (phase to phase)	K_e	V_{rms}/m/s	36.1	36.1	36.1	36.1	36.1
Resistance (phase to phase at 25°C)	R_s	Ω	6.3	3.2	2.2	1.8	1.2
Inductance (phase to phase)	L_s	mH	12.6	6.3	4.2	3.2	2.2
Motor Constant	K_M	N/√W	18.0	25.2	30.4	34.1	41.6
Coil Mass	M_C	kg	1.0	2.1	3.1	4.2	6.3
Maximum Speed	V_{max}	m/s	4	4	4	4	4
Pole Pitch (N to S)	-	mm	33	33	33	33	33
Continuous Power	P_C	W	500	1000	1500	2000	3000

A : Continuous Duty Zone
B : Intermittent Duty Zone

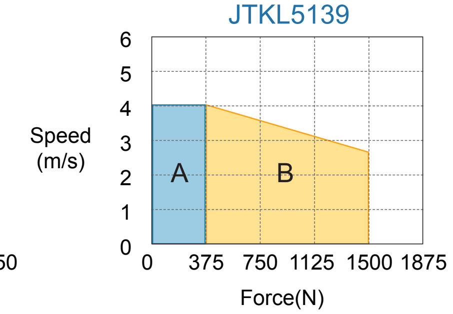
JTKL5113



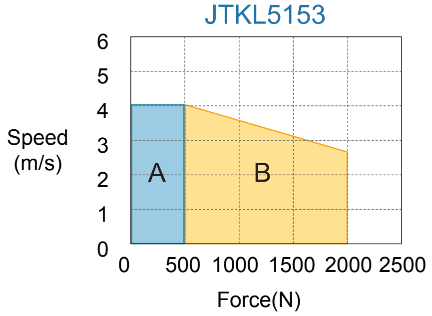
JTKL5126



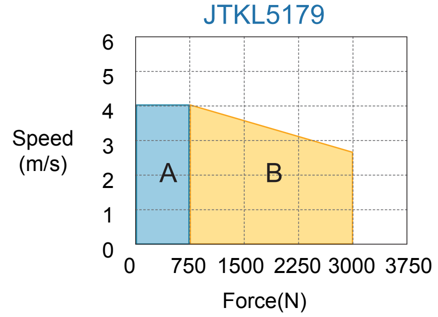
JTKL5139



JTKL5153



JTKL5179



· Note : When supplied input voltage is three phase AC220V

Dimensions

L51

Coil : JTKL-G51□□

Unit : mm

Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Mating

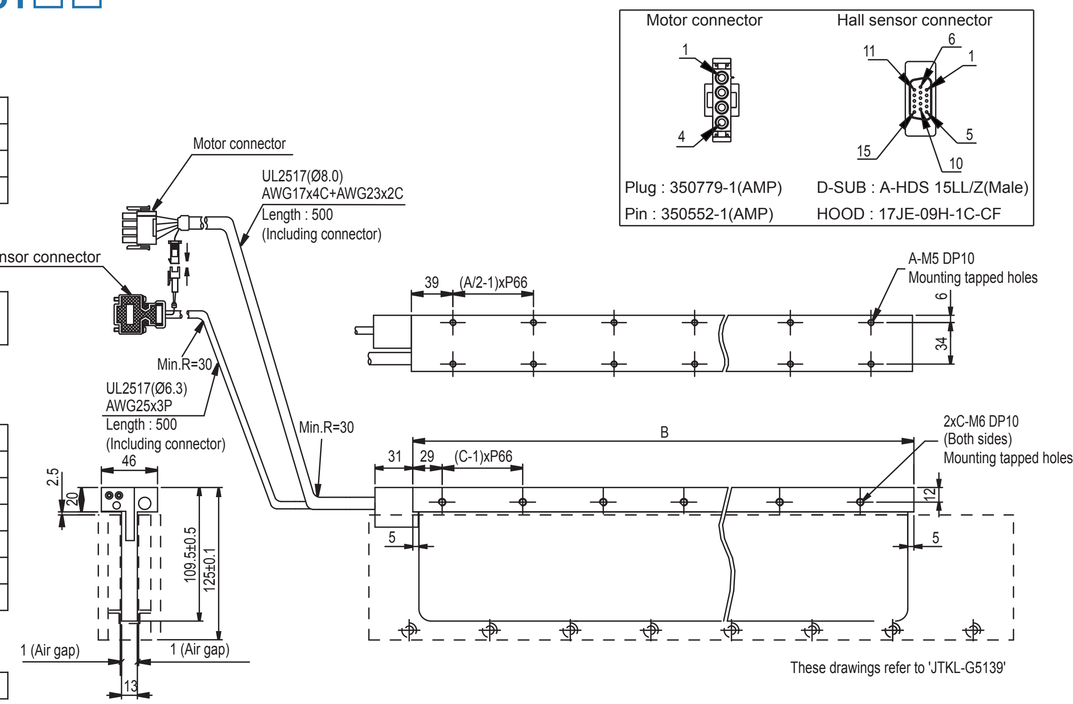
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

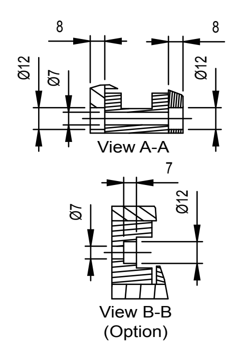
D-SUB : A-HDF 15LL/Z(Female)



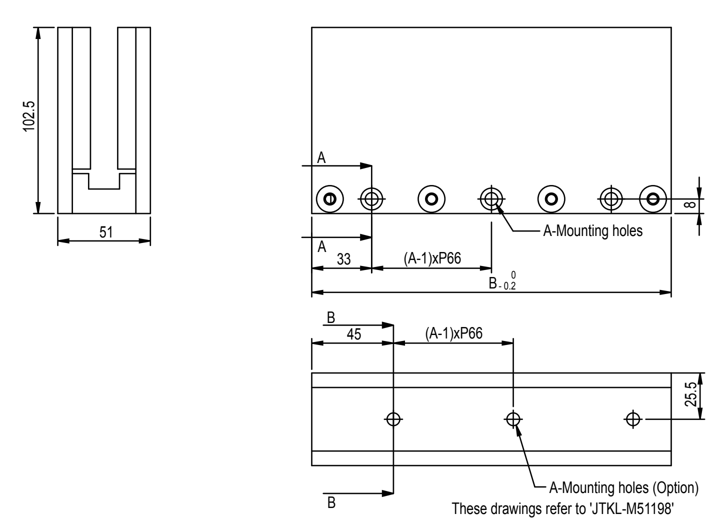
No.	Coil assembly	A	B	C	Weight[kg]	Cable
1	JTKL-G5113	4	144	2	1.0	UL2517(Ø7.8) AWG19X4C
2	JTKL-G5126	8	276	4	2.1	UL2517(Ø7.8) AWG19X4C
3	JTKL-G5139	12	408	6	3.1	UL2517(Ø8.0) AWG17X4C
4	JTKL-G5153	16	540	8	4.2	UL2517(Ø8.0) AWG17X4C
5	JTKL-G5179	24	804	12	6.3	UL2517(Ø8.0) AWG17X4C

Magnet Track : JTKL-M51□□□

Unit : mm



No.	Magnet assembly	A	B	Weight[kg]
1	JTKL-M51198	3	198	5.3
2	JTKL-M51264	4	264	7.1
3	JTKL-M51330	5	330	8.9
4	JTKL-M51528	8	528	14.2



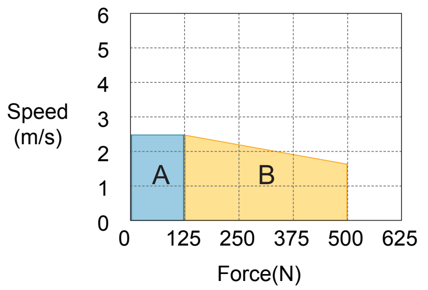
Specifications

L51B

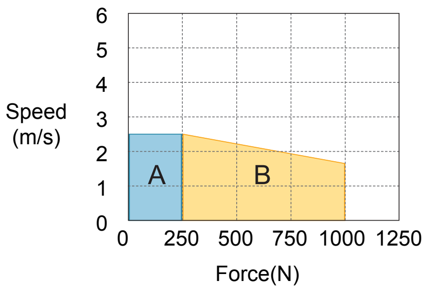
Performance Parameters	Symbol	Unit	Model				
			JTKL5113B	JTKL5126B	JTKL5139B	JTKL5153B	JTKL5179B
Continuous Force	F_c	N	125	250	375	500	750
Peak Force	F_p	N	500	1000	1500	2000	3000
Continuous Current	$I_c@T_{max}$	A_{rms}	1.4	2.8	4.1	5.5	8.3
Peak Current	I_p	A_{rms}	5.5	11.0	16.5	22.0	33.0
Force Constant	K_f	N/A_{rms}	90.9	90.9	90.9	90.9	90.9
Electrical Time Constant	T_e	ms	2.1	2.1	2.1	2.1	2.1
Back EMF Constant (phase to phase)	K_e	$V_{rms}/m/s$	52.5	52.5	52.5	52.5	52.5
Resistance (phase to phase at 25°C)	R_s	Ω	13.1	6.6	4.4	3.3	2.2
Inductance (phase to phase)	L_s	mH	26.9	13.5	9.0	6.8	4.6
Motor Constant	K_M	$N/\sqrt{W}$	18.1	25.6	31.4	36.2	44.3
Coil Mass	M_C	kg	1.0	2.1	3.1	4.2	6.3
Maximum Speed	V_{max}	m/s	2.5	2.5	2.5	2.5	2.5
Pole Pitch (N to S)	-	mm	33	33	33	33	33
Continuous Power	P_C	W	312	625	937	1250	1875

A : Continuous Duty Zone
B : Intermittent Duty Zone

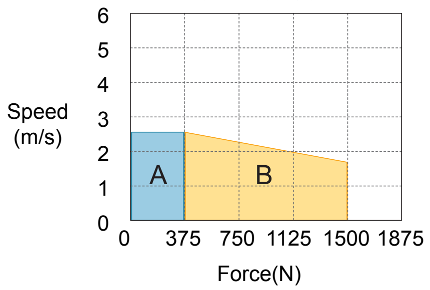
JTKL5113B



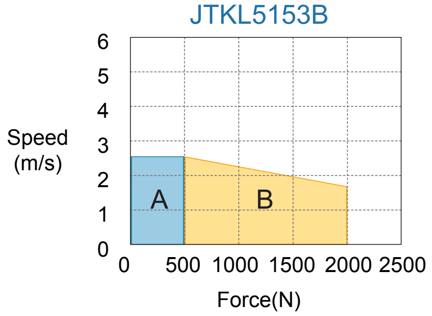
JTKL5126B



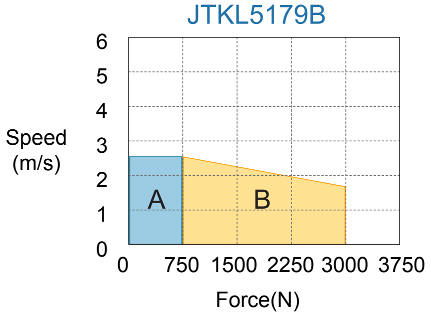
JTKL5139B



JTKL5153B



JTKL5179B



· Note : When supplied input voltage is three phase AC220V

Dimensions

L51B

Coil : JTKL-G51□□B

Unit : mm

Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Mating

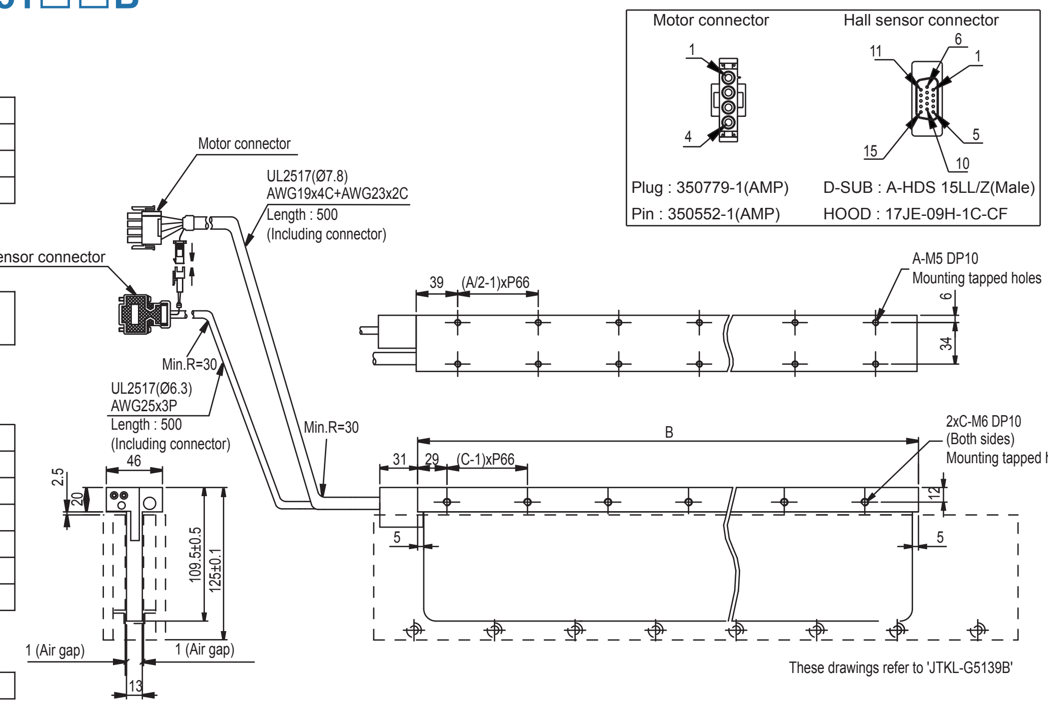
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

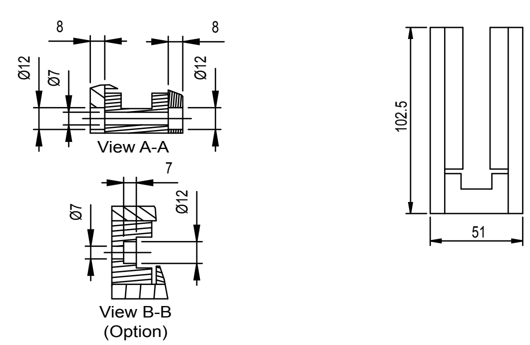
D-SUB : A-HDF 15LL/Z(Female)

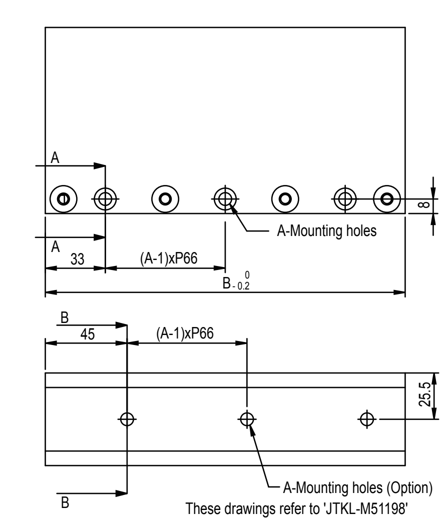


No.	Coil assembly	A	B	C	Weight[kg]	Cable
1	JTKL-G5113B	4	144	2	1.0	UL2517(Ø7.8) AWG19x4C
2	JTKL-G5126B	8	276	4	2.1	UL2517(Ø7.8) AWG19x4C
3	JTKL-G5139B	12	408	6	3.1	UL2517(Ø7.8) AWG19x4C
4	JTKL-G5153B	16	540	8	4.2	UL2517(Ø7.8) AWG19x4C
5	JTKL-G5179B	24	804	12	6.3	UL2517(Ø8.0) AWG17x4C

Magnet Track : JTKL-M51□□□

Unit : mm





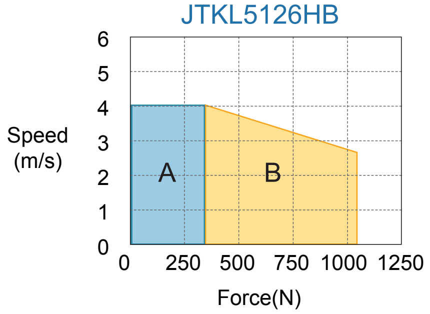
No.	Magnet assembly	A	B	Weight[kg]
1	JTKL-M51198	3	198	5.3
2	JTKL-M51264	4	264	7.1
3	JTKL-M51330	5	330	8.9
4	JTKL-M51528	8	528	14.2

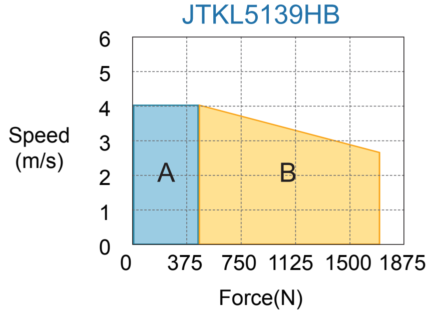
Specifications

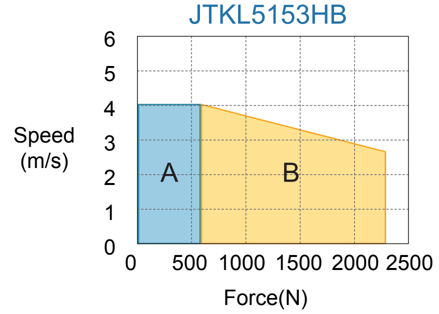
L51HB

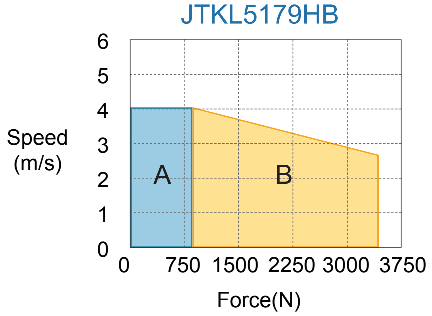
Performance Parameters	Symbol	Unit	Model			
			JTKL5126HB	JTKL5139HB	JTKL5153HB	JTKL5179HB
Continuous Force	F_c	N	293	440	586	880
Peak Force	F_p	N	1172	1760	2344	3520
Continuous Current	$I_c@T_{max}$	A_{rms}	6	9	12	18
Peak Current	I_p	A_{rms}	24	36	48	72
Force Constant	K_f	N/A_{rms}	49	49	49	49
Electrical Time Constant	T_e	ms	1.8	1.8	1.9	1.9
Back EMF Constant (phase to phase)	K_e	$V_{rms}/m/s$	28.2	28.2	28.2	28.2
Resistance (phase to phase at 25°C)	R_s	Ω	1.9	1.3	0.9	0.6
Inductance (phase to phase)	L_s	mH	3.4	2.3	1.7	1.2
Motor Constant	K_M	$N/\sqrt{W}$	26.1	32.0	37.1	45.8
Coil Mass	M_C	kg	2.1	3.2	4.3	6.4
Maximum Speed	V_{max}	m/s	4	4	4	4
Pole Pitch (N to S)	-	mm	33	33	33	33
Continuous Power	P_C	W	1172	1760	2347	3520

A : Continuous Duty Zone
B : Intermittent Duty Zone









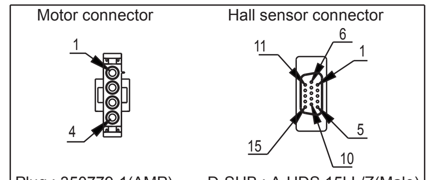
· Note : When supplied input voltage is three phase AC220V

Dimensions

L51HB

Coil : JTKL-G51□□HB

Unit : mm



Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Mating

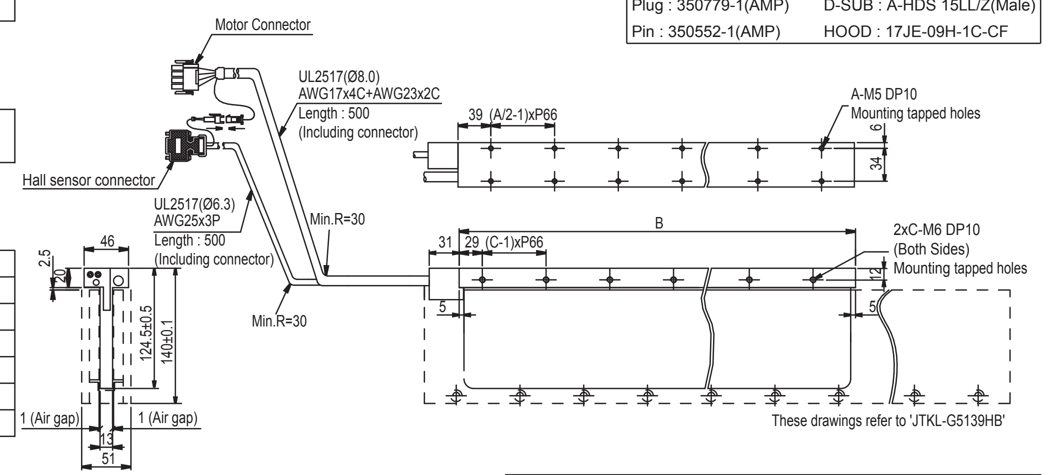
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

D-SUB : A-HDF 15LL/Z(Female)



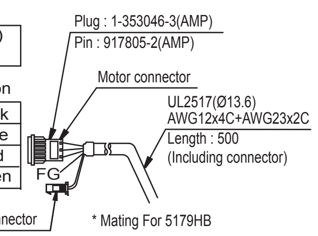
No.	Coil assembly	A	B	C	Weight[kg]	Cable
1	JTKL-G5126HB	8	276	4	2.1	UL2517(Ø8.0) AWG17x4C
2	JTKL-G5139HB	12	408	6	3.2	UL2517(Ø8.0) AWG17x4C
3	JTKL-G5153HB	16	540	8	4.3	UL2517(Ø8.0) AWG17X4C
4	JTKL-G5179HB	24	804	12	6.4	UL2517(Ø13.6) AWG12X4C

Mating

Cap : 1-179958-3(AMP)
Pin : 179956-2(AMP)

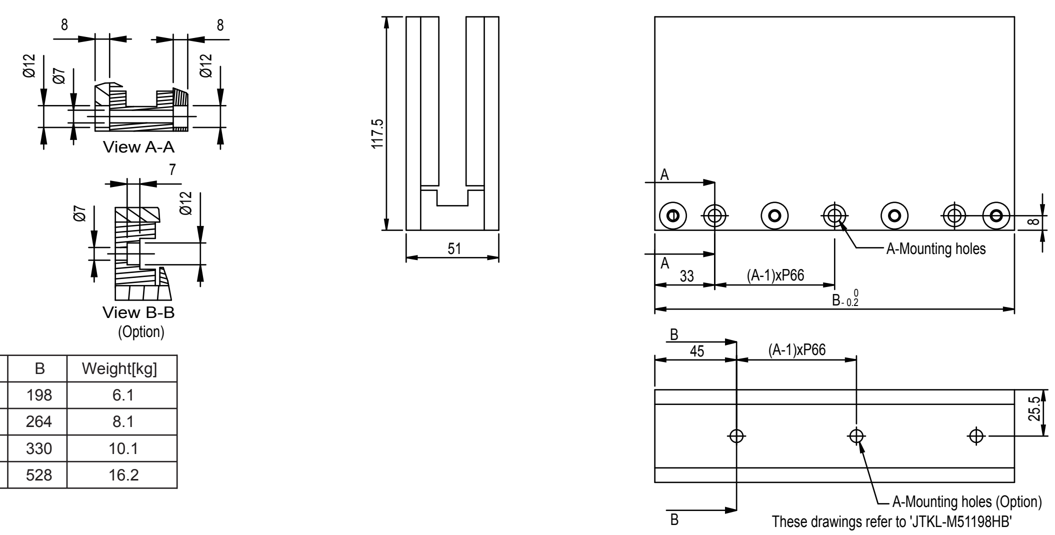
Motor Terminal Connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
	Frame ground	Green



Magnet Track : JTKL-M51□□□HB

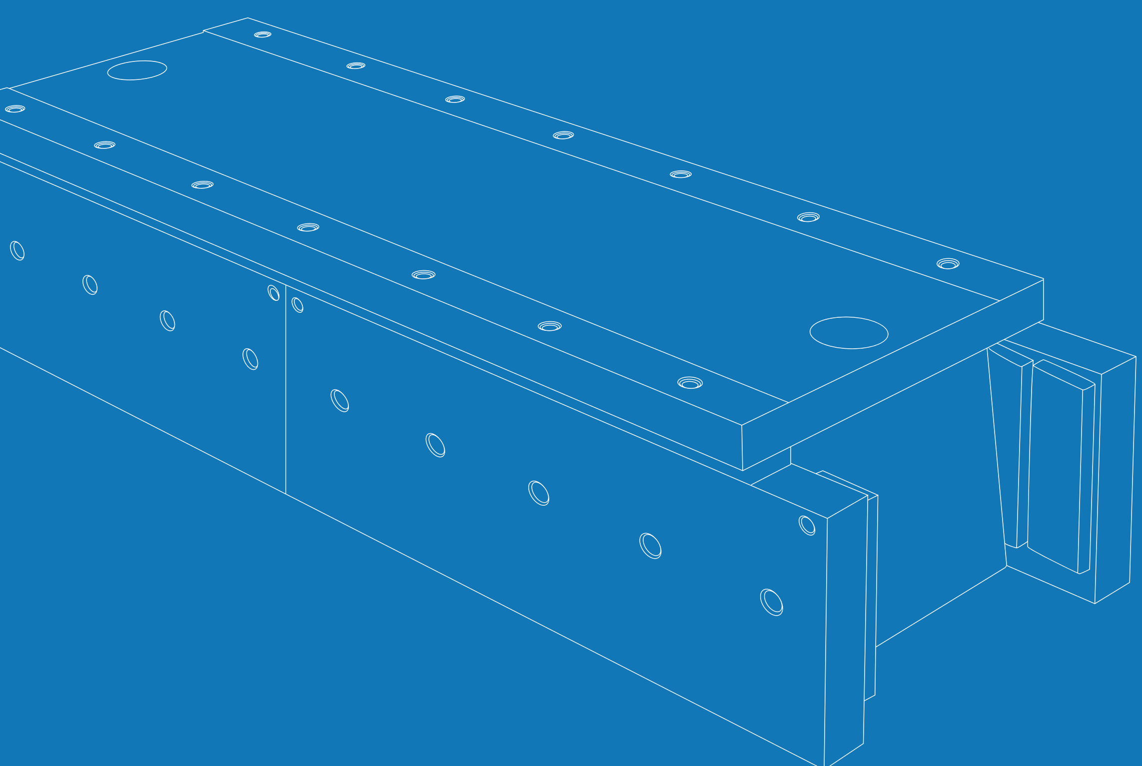
Unit : mm



No.	Magnet assembly	A	B	Weight[kg]
1	JTKL-M51198HB	3	198	6.1
2	JTKL-M51264HB	4	264	8.1
3	JTKL-M51330HB	5	330	10.1
4	JTKL-M51528HB	8	528	16.2

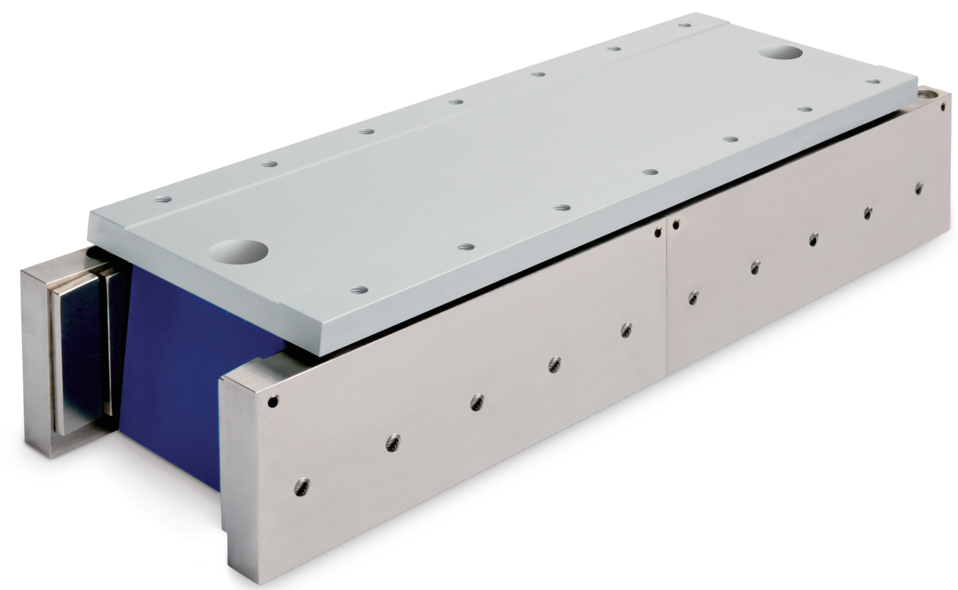
Double-sided Iron-core Type

JUSTEK Linear Motors



Common Specifications

Insulation Resistance	10MΩ or more (DC 500V)
Dielectric Insulation Voltage	AC 1800V, 15mA, 1sec
Ambient Humidity	20 ~ 80% RH (without condensation or frost)
Ambient Temperature	0 ~ 40°C



JTKW45 Series

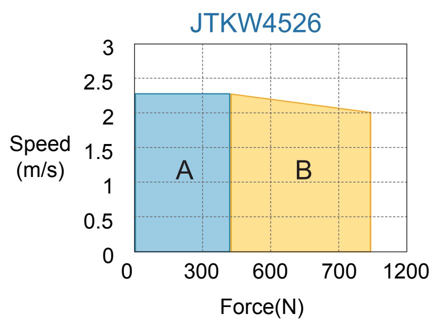
JTKW74Z(S) Series

Specifications

W45

Performance Parameters	Symbol	Unit	Model
			JTKW4526
Continuous Force	F_c	N	440
Peak Force	F_p	N	1000
Continuous Current	$I_c@T_{max}$	A_{rms}	5.8
Peak Current	I_p	A_{rms}	14.2
Force Constant	K_f	N/A_{rms}	76
Electrical Time Constant	T_e	ms	7.4
Back EMF Constant (phase to phase)	K_e	$V_{rms}/m/s$	43.8
Resistance (phase to phase at 25°C)	R_s	Ω	2.3
Inductance (phase to phase)	L_s	mH	17
Motor Constant	K_M	$N/\sqrt{W}$	36
Coil Mass	M_C	kg	5.0
Maximum Speed	V_{max}	m/s	2.3
Pole Pitch (N to S)	-	mm	16
Continuous Power	P_C	W	1012

A : Continuous Duty Zone
B : Intermittent Duty Zone



· Note : When supplied input voltage is three phase AC220V

Dimensions

W45

Coil : JTKW-G45□□

Unit : mm

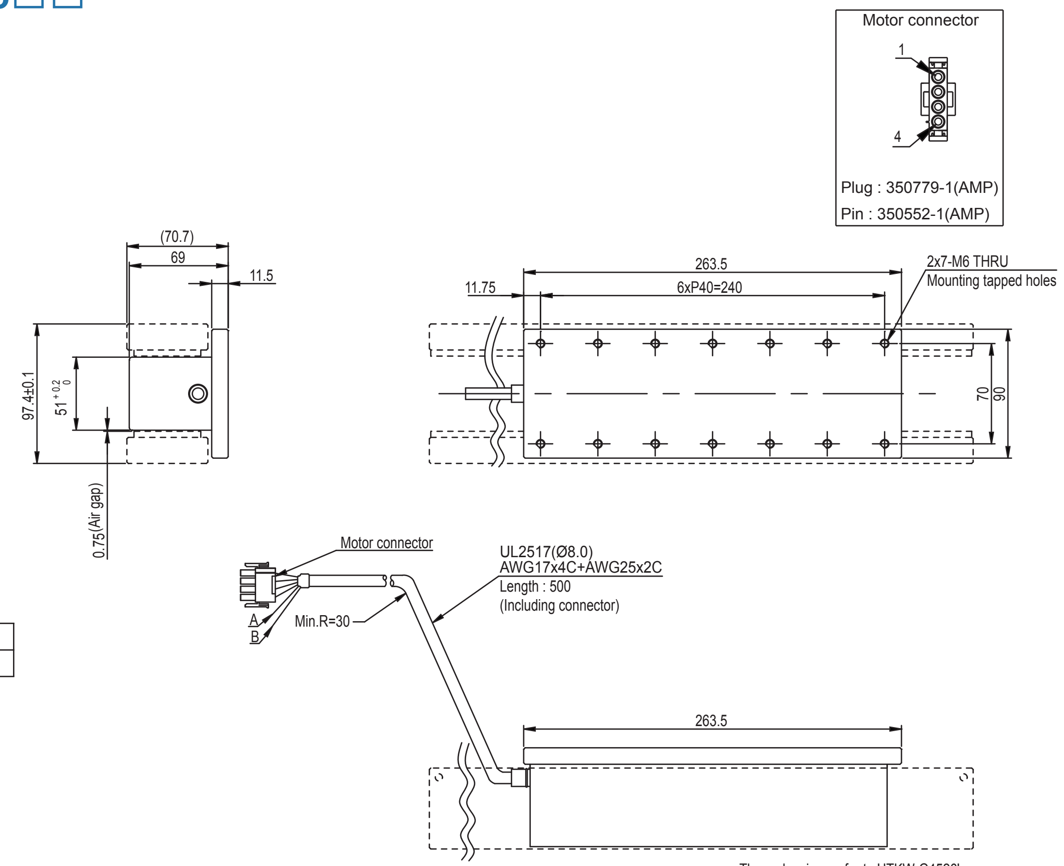
Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green
A	Thermal sensor	Yellow
B	Thermal sensor	Brown

Mating

Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

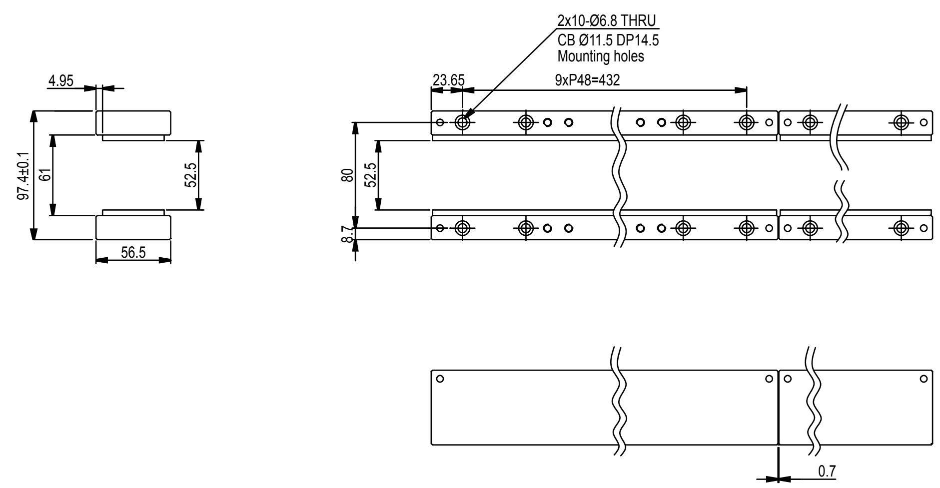
No.	Coil assembly	Weight[kg]
1	JTKW-G4526	5.0



These drawings refer to 'JTKW-G4526'

Magnet Track : JTKW-M45□□□

Unit : mm



No.	Magnet assembly	Weight[kg]
1	JTKW-M45479	8.3

These drawings refer to 'JTKW-M45479'

Specifications

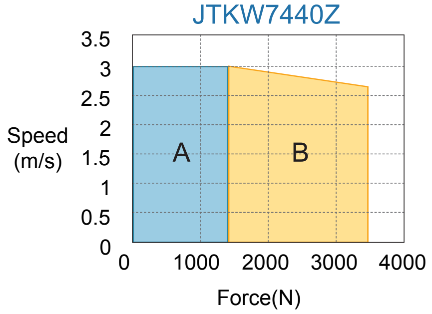
W74Z(S)

Performance Parameters	Symbol	Unit	Model			
			JTKW7440Z	JTKW7440ZS	JTKW7460Z	JTKW7460ZS
Continuous Force	F_c	N	1400	1400	2100	2100
Peak Force	F_p	N	3500	3500	5250	5250
Continuous Current	$I_c@T_{max}$	A_{rms}	17.6	8.8	26.4	13.2
Peak Current	I_p	A_{rms}	44.0	22.0	66.0	33.0
Force Constant	K_f	N/A_{rms}	80	161	80	161
Electrical Time Constant	T_e	ms	28.9	28.9	28.9	28.9
Back EMF Constant (phase to phase)	K_e	$V_{rms}/m/s$	46.5	92.9	46.5	92.9
Resistance (phase to phase at 25°C)	R_s	Ω	0.3	2.3	0.4	1.6
Inductance (phase to phase)	L_s	mH	16.5	66.0	11.0	44.0
Motor Constant	K_M	$N/\sqrt{W}$	76.6	76.6	93.9	93.9
Coil Mass	M_C	kg	24.4	24.4	36.0	36.0
Maximum Speed	V_{max}	m/s	3.0	1.5	3.0	1.5
Pole Pitch (N to S)	-	mm	24	24	24	24
Continuous Power	P_C	W	4200	2100	6300	3150

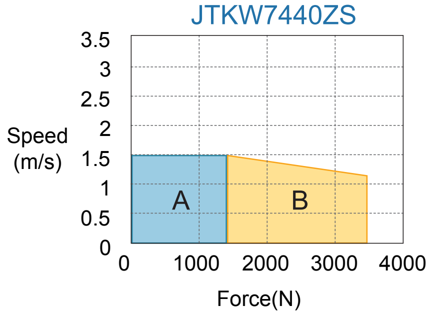
A : Continuous Duty Zone

B : Intermittent Duty Zone

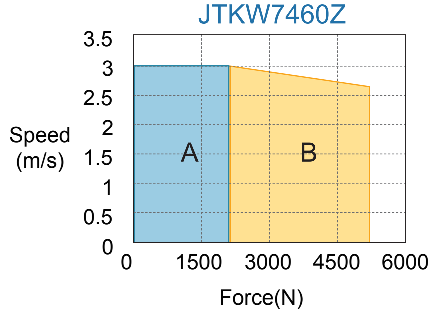
JTKW7440Z



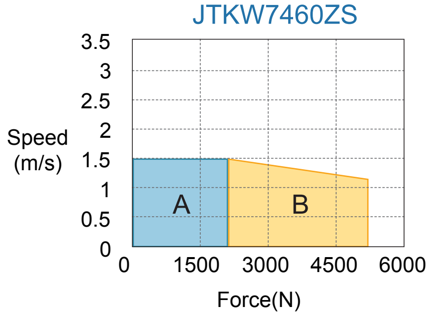
JTKW7440ZS



JTKW7460Z



JTKW7460ZS



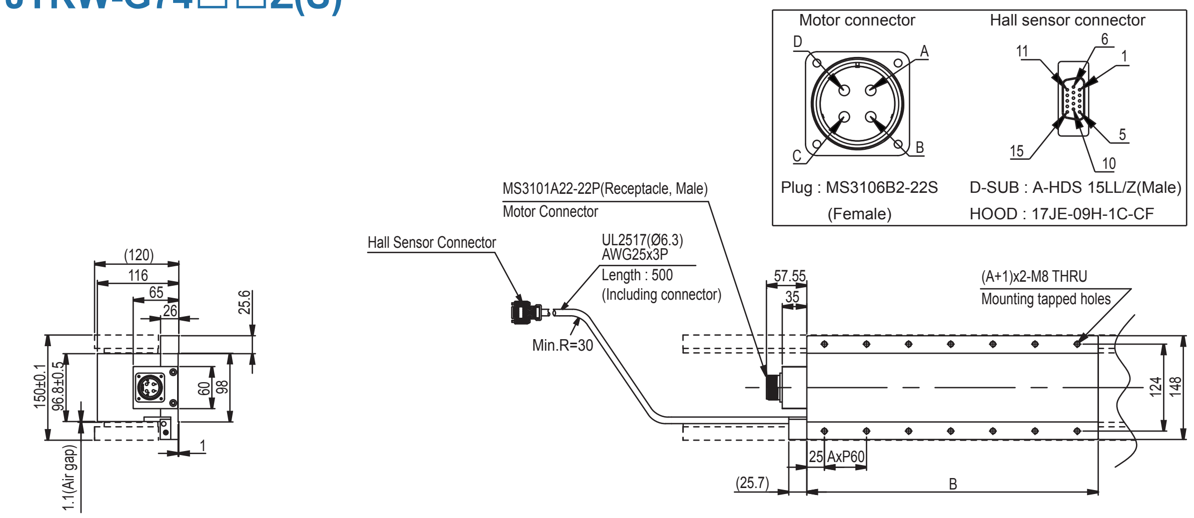
· Note : When supplied input voltage is three phase AC220V

Dimensions

W74Z(S)

Coil : JTKW-G74□□Z(S)

Unit : mm



Motor terminal connection

A	Phase U	Black
B	Phase V	White
C	Phase W	Red
D	Frame ground	Green

Mating

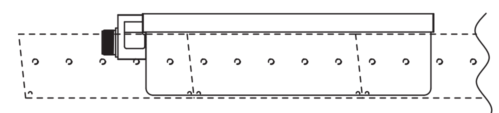
L-Type plug : MS3108B22-22S(Female)
Straight plug : MS3106B22-22S(Female)
Cable clamp : MS3057-12A

Hall sensor terminal connection

01	VCC-HS	Red
02	Hall A	Orange
03	Hall B	Yellow
04	Hall C	Green
05	GND-HS	Blue

Mating

Socket connector : 17JE-13090-02(D8C)(Female)
Stud : 17L-002C or 17L-002C1

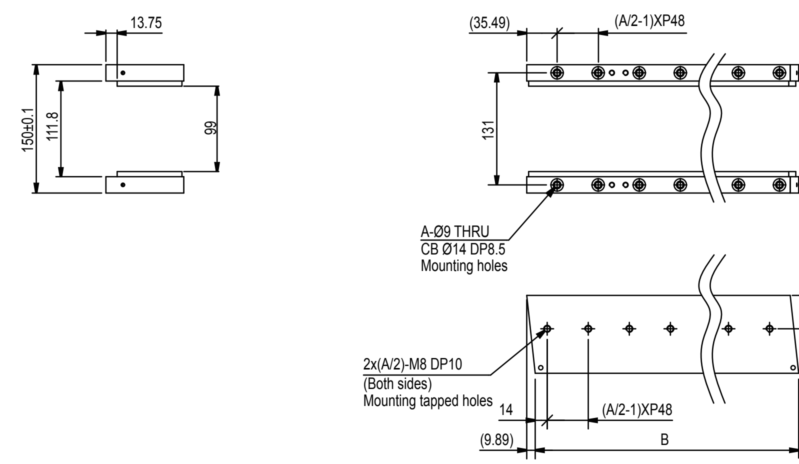


These drawings refer to 'JTKW-G7440Z'

No.	Coil assembly	A	B	Weight[kg]
1	JTKW-G7440Z(S)	6	415	24.4
2	JTKW-G7460Z(S)	9	607	36.0

Magnet Track : JTKW-M74□□□

Unit : mm

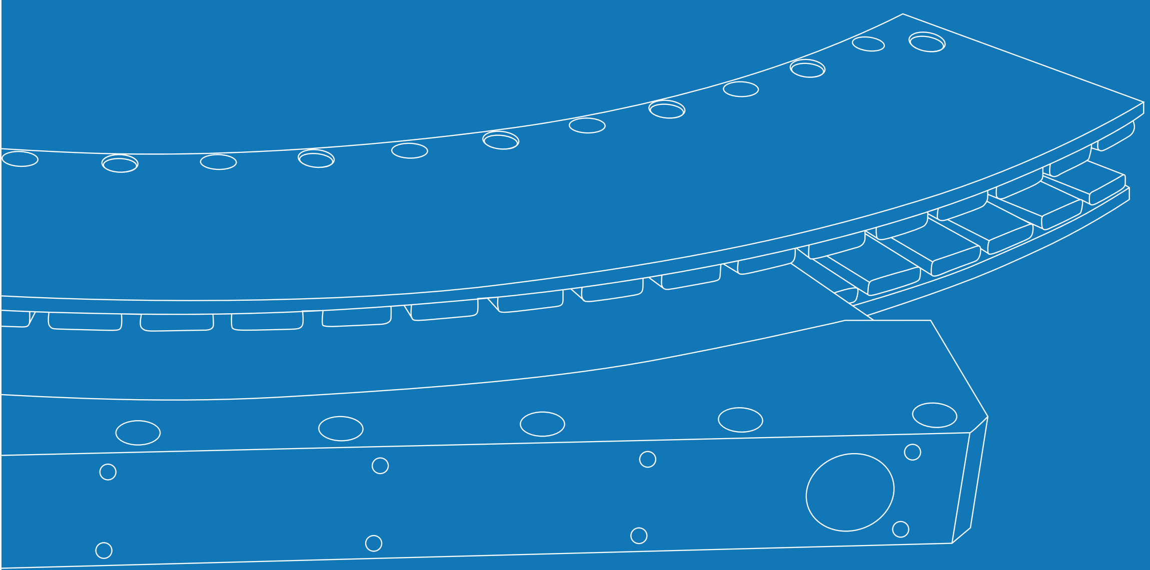


These drawings refer to 'JTKW-M74480'

No.	Magnet assembly	A	B	Weight[kg]
1	JTKW-M74240	10	240	14.2
2	JTKW-M74480	20	480	28.4

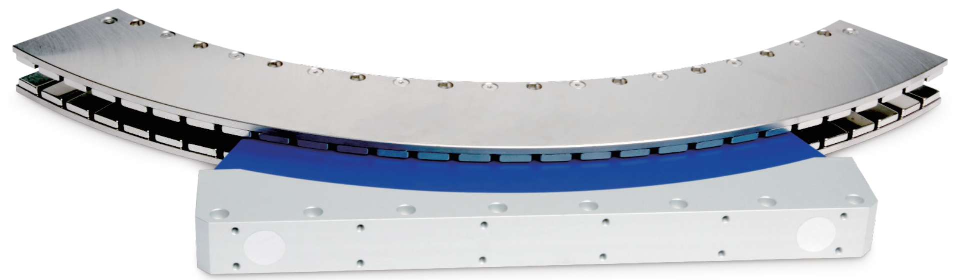
Arc Type

JUSTEK Linear Motors



Common Specifications

Insulation Resistance	10MΩ or more (DC 500V)
Dielectric Insulation Voltage	AC 1800V, 15mA, 1sec
Ambient Humidity	20 ~ 80% RH (without condensation or frost)
Ambient Temperature	0 ~ 40°C



JTKA30A Series

JTKA42 Series

JTKA50 Series

JTKA61 Series

JTKA65 Series

JTKA76 Series

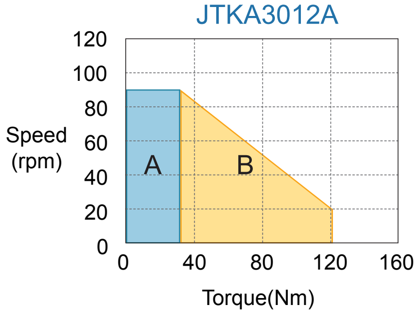
Specifications

A30A

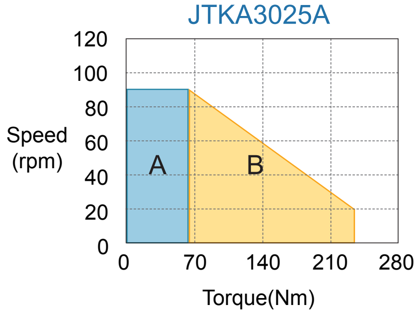
Performance Parameters	Symbol	Unit	Model	
			JTKA3012A	JTKA3025A
Continuous Tangential Force	F_c	N	98.8	197.6
Peak Tangential Force	F_p	N	395.2	790.4
Continuous Torque	T_c	Nm	30	60
Peak Torque	T_p	Nm	120	240
Continuous Current	I_c@T_{max}	A_{rms}	1.5	3.0
Peak Current	I_p	A_{rms}	6	12
Force Constant	K_f	N/A_{rms}	65.9	65.9
Torque Constant	K_t	Nm/A_{rms}	20.1	20.1
Electrical Time Constant	T_e	ms	1.1	1.1
Back EMF Constant (phase to phase)	K_e	V_{rms}/m/s	38.1	38.1
Resistance (phase to phase at 25°C)	R_s	Ω	11.0	5.5
Inductance (phase to phase)	L_s	mH	12.2	6.1
Motor Constant	K_M	$N/\sqrt{W}$	14.3	20.3
Coil Mass	M_C	kg	1.4	2.8
Working Radius	-	mm	305.6	305.6
Maximum Rotational Speed	V_{max}	rpm	90	90
Pole Pitch (N to S)	-	Deg	4.5	4.5
Continuous Power	P_C	W	297	593

A : Continuous Duty Zone
B : Intermittent Duty Zone

JTKA3012A



JTKA3025A



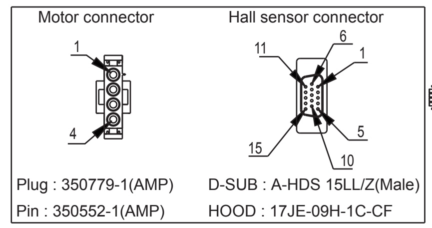
· Note : When supplied input voltage is three phase AC220V

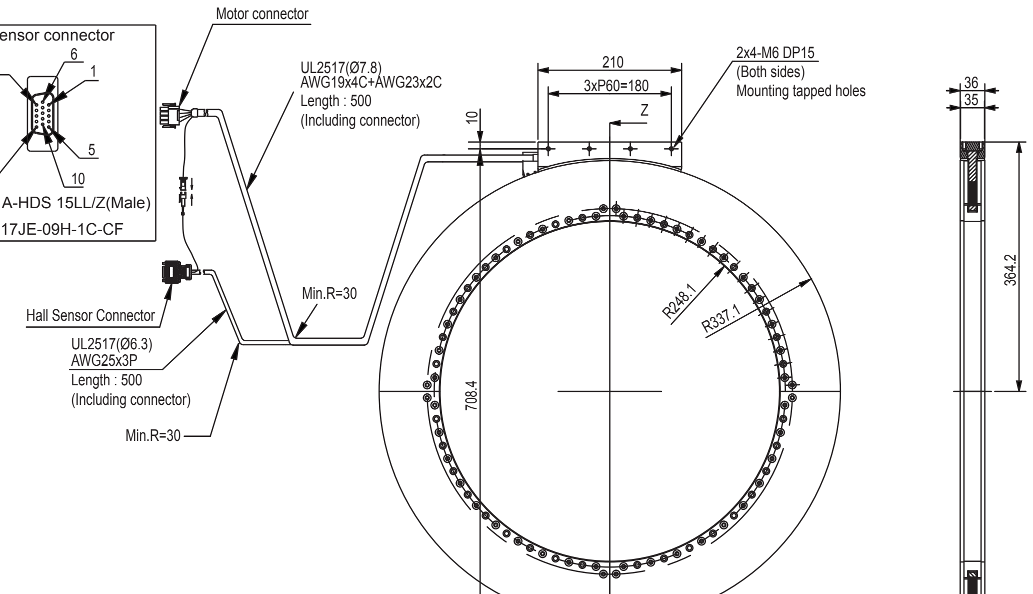
Dimensions

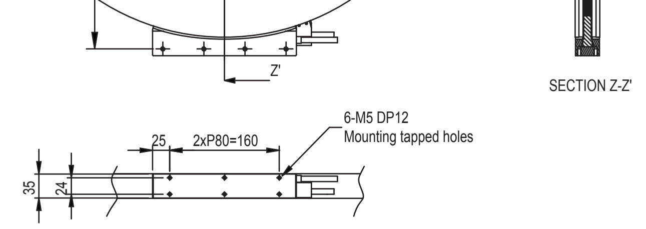
A30A

Coil : JTKA-G30☐☐A

Unit : mm







Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Mating

Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

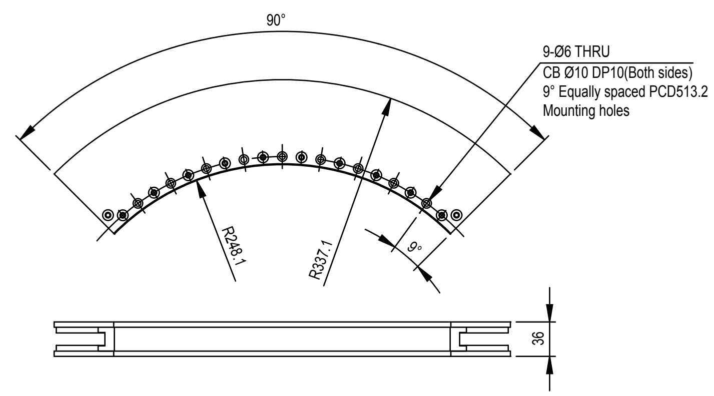
Mating

D-SUB : A-HDF 15LL/Z(Female)

Magnet Track : JTKA-M30A☐☐

Unit : mm

No.	Magnet assembly	Weight[kg]
1	JTKA-M30A90	7.1

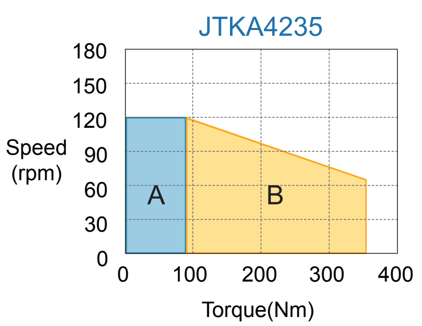


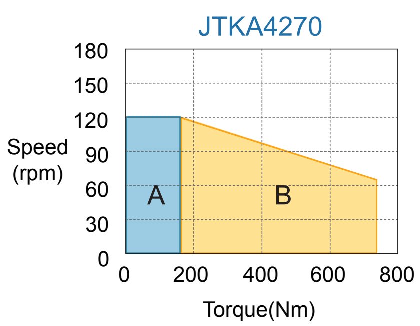
Specifications

A42

Performance Parameters	Symbol	Unit	Model: JTKA4235	Model: JTKA4270
Continuous Tangential Force	F_c	N	208	416
Peak Tangential Force	F_p	N	832	1664
Continuous Torque	T_c	Nm	88	176
Peak Torque	T_p	Nm	352	704
Continuous Current	I_c@T_{max}	A_{rms}	6	12
Peak Current	I_p	A_{rms}	24	48
Force Constant	K_f	N/A_{rms}	34.7	34.7
Torque Constant	K_t	Nm/A_{rms}	14.8	14.8
Electrical Time Constant	T_e	ms	1	1
Back EMF Constant (phase to phase)	K_e	V_{rms}/m/s	20	20
Resistance (phase to phase at 25°C)	R_s	Ω	1.7	0.9
Inductance (phase to phase)	L_s	mH	1.7	0.9
Motor Constant	K_M	$N/\sqrt{W}$	19.5	27.5
Coil Mass	M_C	kg	3.1	6.2
Working Radius	-	mm	427.8	427.8
Maximum Rotational Speed	V_{max}	rpm	120	120
Pole Pitch (N to S)	-	Deg	3.21	3.21
Continuous Power	P_c	W	1040	2080

A : Continuous Duty Zone
B : Intermittent Duty Zone





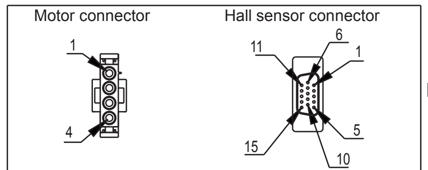
· Note : When supplied input voltage is three phase AC220V

Dimensions

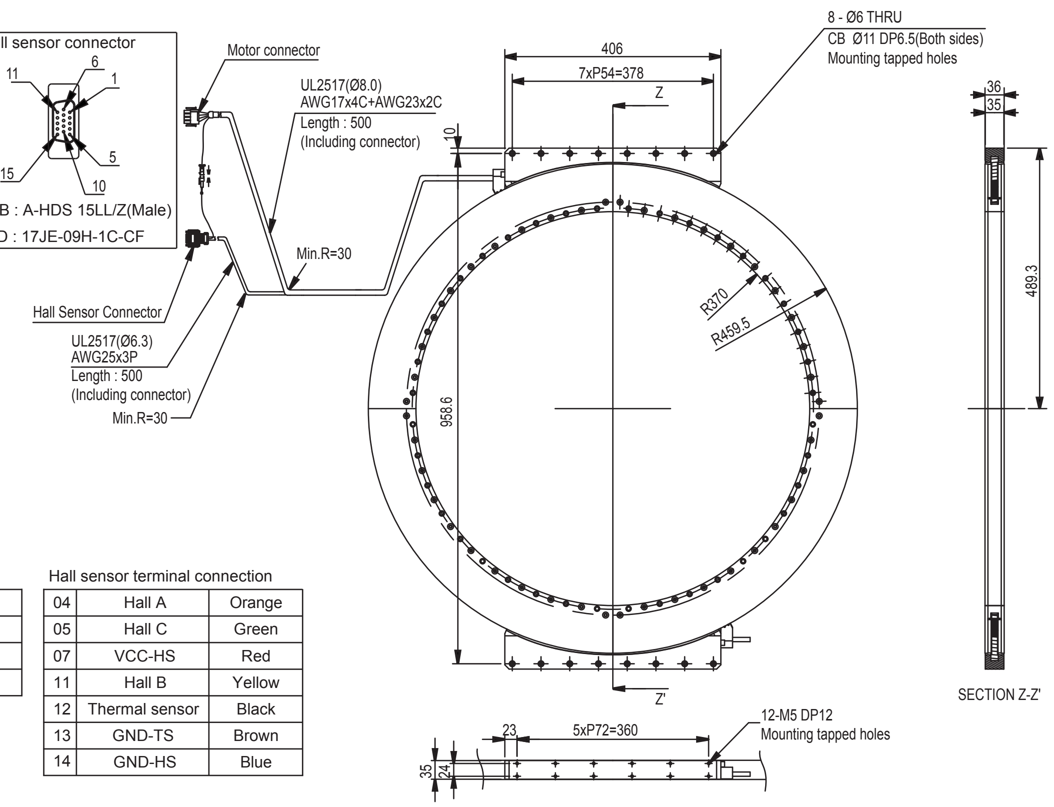
A42

Coil : JTKA-G42□□

Unit : mm



Plug : 350779-1(AMP)
Pin : 350552-1(AMP)
D-SUB : A-HDS 15LL/Z(Male)
HOOD : 17JE-09H-1C-CF



Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

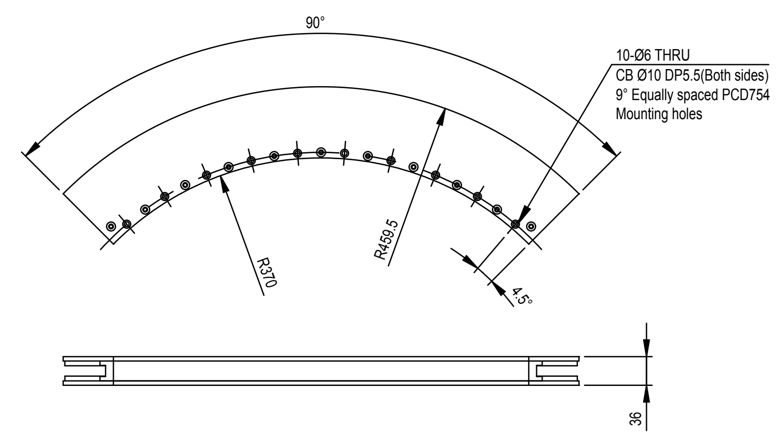
Mating
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

Mating
D-SUB : A-HDF 15LL/Z(Female)

Magnet Track : JTKA-M42A□□

Unit : mm

No.	Magnet assembly	Weight[kg]
1	JTKA-M42A90	10.3

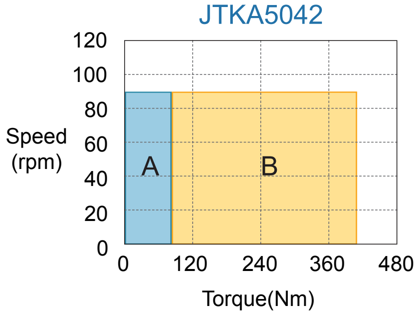


Specifications

A50

Performance Parameters	Symbol	Unit	Model JTKA5042
Continuous Tangential Force	F_C	N	208
Peak Tangential Force	F_P	N	832
Continuous Torque	T_C	Nm	104
Peak Torque	T_P	Nm	416
Continuous Current	I_C@T_{max}	A_{rms}	6
Peak Current	I_P	A_{rms}	24
Force Constant	K_f	N/A_{rms}	34.7
Torque Constant	K_t	Nm/A_{rms}	17.5
Electrical Time Constant	T_e	ms	1
Back EMF Constant (phase to phase)	K_e	V_{rms}/m/s	20
Resistance (phase to phase at 25°C)	R_S	Ω	1.7
Inductance (phase to phase)	L_S	mH	1.7
Motor Constant	K_M	N/√W	19.5
Coil Mass	M_C	kg	2.9
Working Radius	-	mm	504.2
Maximum Rotational Speed	V_{max}	rpm	90
Pole Pitch (N to S)	-	Deg	2.73
Continuous Power	P_C	W	1040

A : Continuous Duty Zone
B : Intermittent Duty Zone



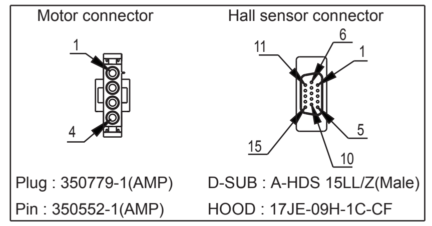
· Note : When supplied input voltage is three phase AC220V

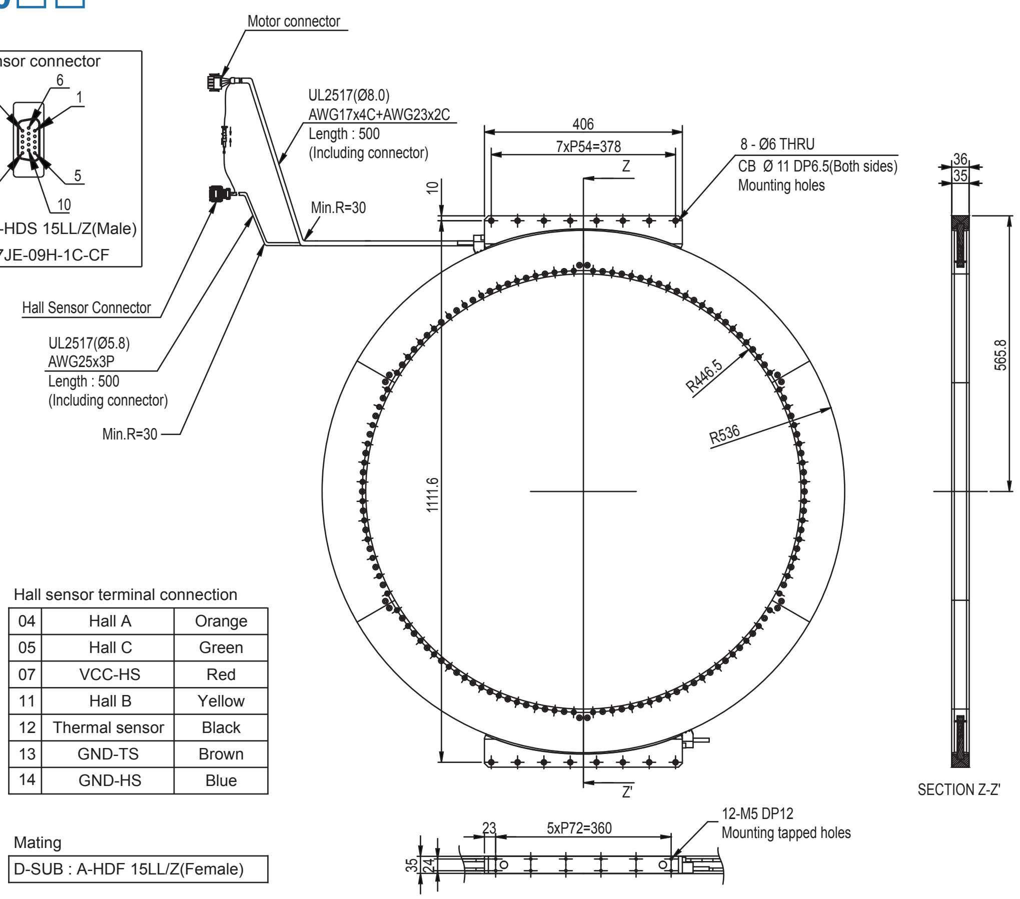
Dimensions

A50

Coil : JTKA-G50☐☐

Unit : mm





Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

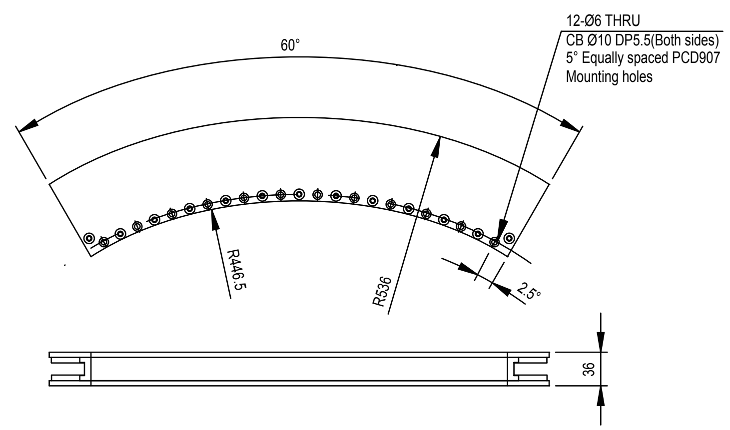
Mating

D-SUB : A-HDF 15LL/Z(Female)

Magnet Track : JTKA-M50A☐☐

Unit : mm

No.	Magnet assembly	Weight[kg]
1	JTKA-M50A60	8.0

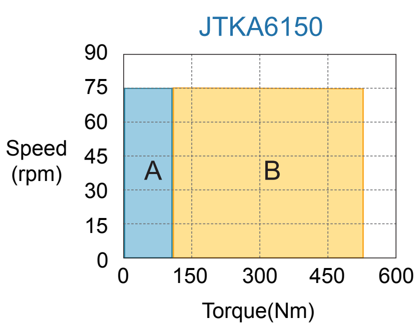


Specifications

A61

Performance Parameters	Symbol	Unit	Model JTKA6150
Continuous Tangential Force	F_C	N	208
Peak Tangential Force	F_P	N	832
Continuous Torque	T_c	Nm	127
Peak Torque	T_p	Nm	508
Continuous Current	I_c@T_{max}	A_{rms}	6
Peak Current	I_p	A_{rms}	24
Force Constant	K_f	N/A_{rms}	34.7
Torque Constant	K_t	Nm/A_{rms}	21.2
Electrical Time Constant	T_e	ms	1
Back EMF Constant (phase to phase)	K_e	V_{rms}/m/s	20
Resistance (phase to phase at 25°C)	R_s	Ω	1.7
Inductance (phase to phase)	L_s	mH	1.7
Motor Constant	K_M	N/$\sqrt{W}$	19.5
Coil Mass	M_C	kg	2.8
Working Radius	-	mm	611.1
Maximum Rotational Speed	V_{max}	rpm	75
Pole Pitch (N to S)	-	Deg	2.25
Continuous Power	P_C	W	1040

A : Continuous Duty Zone
B : Intermittent Duty Zone



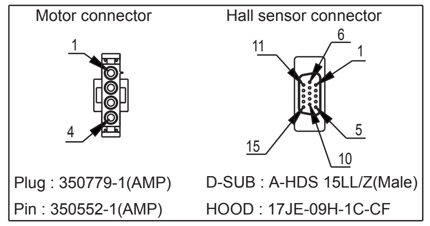
· Note : When supplied input voltage is three phase AC220V

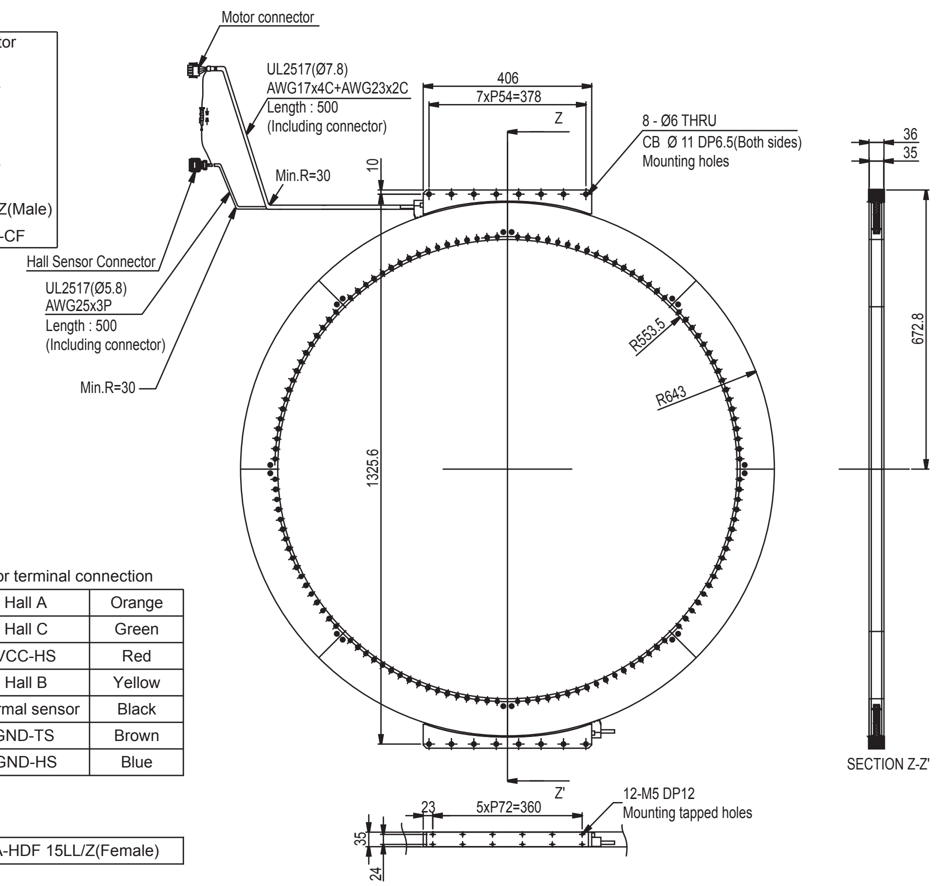
Dimensions

A61

Coil : JTKA-G61□□

Unit : mm





Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

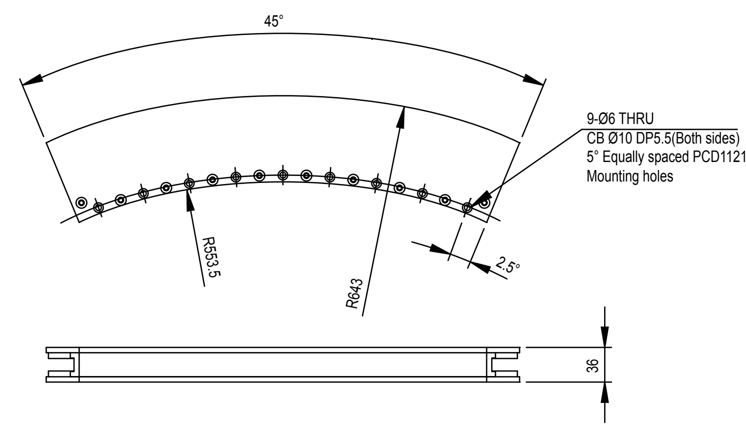
Mating

D-SUB : A-HDF 15LL/Z(Female)

Magnet Track : JTKA-M61A□□

Unit : mm

No.	Magnet assembly	Weight[kg]
1	JTKA-M61A45	7.4

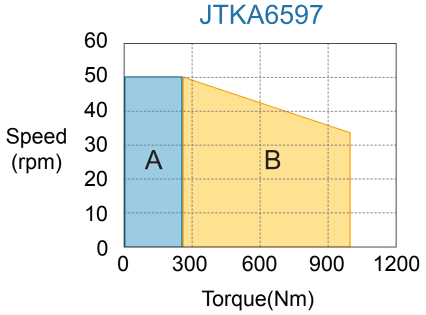


Specifications

Performance Parameters	Symbol	Unit	Model JTKA6597
Continuous Tangential Force	F_C	N	375
Peak Tangential Force	F_P	N	1500
Continuous Torque	T_C	Nm	244
Peak Torque	T_P	Nm	976
Continuous Current	I_C@T_{max}	A_{rms}	6
Peak Current	I_P	A_{rms}	24
Force Constant	K_f	N/A_{rms}	62.5
Torque Constant	K_t	Nm/A_{rms}	40.7
Electrical Time Constant	T_e	ms	1.8
Back EMF Constant (phase to phase)	K_e	V_{rms}/m/s	36.1
Resistance (phase to phase at 25°C)	R_s	Ω	2.3
Inductance (phase to phase)	L_s	mH	4.2
Motor Constant	K_M	N/√W	29.7
Coil Mass	M_C	kg	4.1
Working Radius	-	mm	651.3
Maximum Rotational Speed	V_{max}	rpm	50
Pole Pitch (N to S)	-	Deg	2.9
Continuous Power	P_C	W	1313

A : Continuous Duty Zone
B : Intermittent Duty Zone

JTKA6597

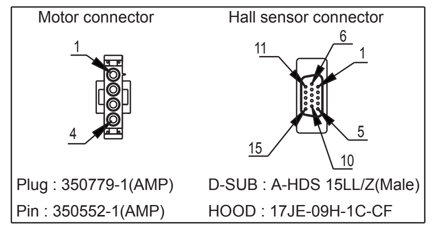


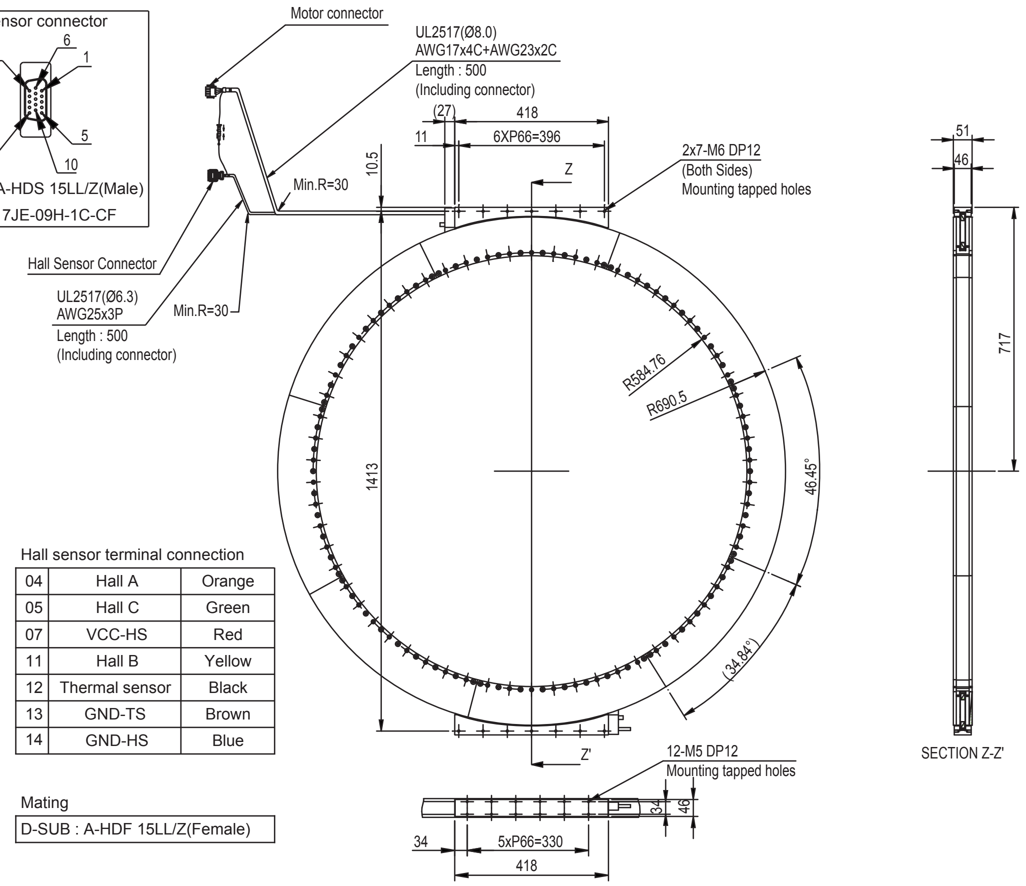
· Note : When supplied input voltage is three phase AC220V

Dimensions

Coil : JTKA-G65□□

Unit : mm





Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

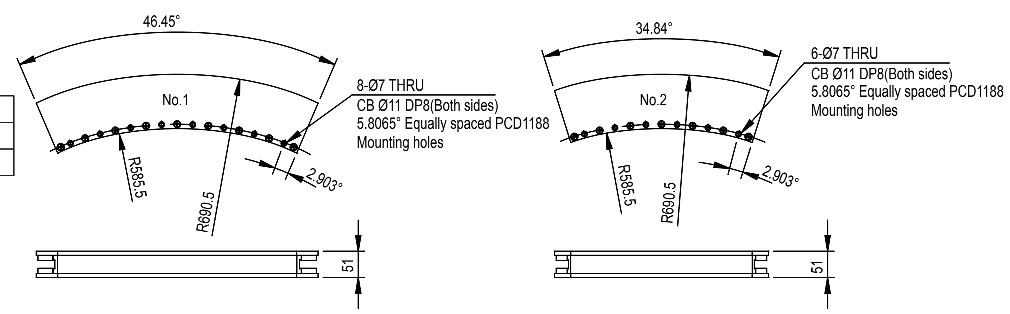
Mating
D-SUB : A-HDF 15LL/Z(Female)

Magnet Track : JTKA-M65A□□

Unit : mm

No.	Magnet assembly	Weight[kg]
1	JTKA-M65A46	14.1
2	JTKA-M65A35	10.6

No.1 * 7 sets + No.2 * 1 set = 360°



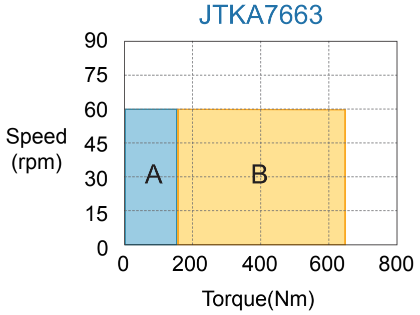
Specifications

A76

Performance Parameters	Symbol	Unit	Model JTKA7663
Continuous Tangential Force	F_C	N	208
Peak Tangential Force	F_P	N	832
Continuous Torque	T_C	Nm	158
Peak Torque	T_P	Nm	632
Continuous Current	$I_C@T_{max}$	A_{rms}	6
Peak Current	I_P	A_{rms}	24
Force Constant	K_f	N/A_{rms}	34.7
Torque Constant	K_t	Nm/A_{rms}	26.5
Electrical Time Constant	T_e	ms	1
Back EMF Constant (phase to phase)	K_e	$V_{rms}/m/s$	20
Resistance (phase to phase at 25°C)	R_s	Ω	1.7
Inductance (phase to phase)	L_s	mH	1.7
Motor Constant	K_M	$N/\sqrt{W}$	19.5
Coil Mass	M_C	kg	2.3
Working Radius	-	mm	763.9
Maximum Rotational Speed	V_{max}	rpm	60
Pole Pitch (N to S)	-	Deg	1.8
Continuous Power	P_C	W	1040

A : Continuous Duty Zone
B : Intermittent Duty Zone

JTKA7663



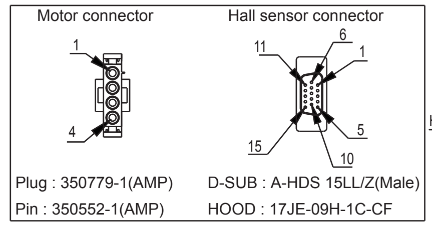
· Note : When supplied input voltage is three phase AC220V

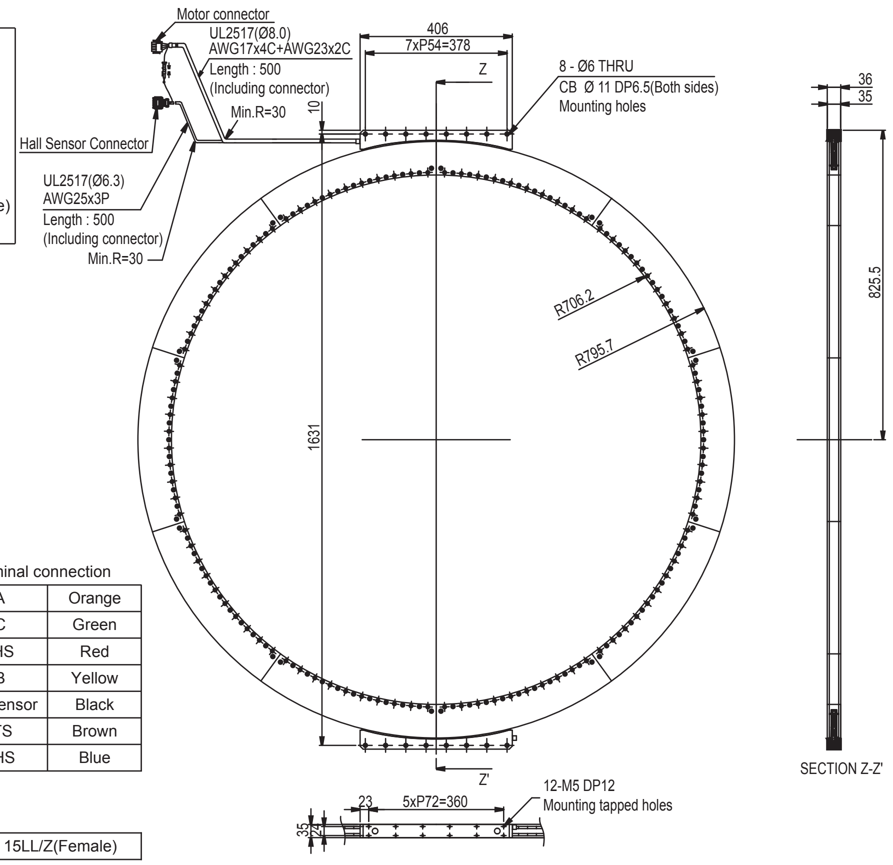
Dimensions

A76

Coil : JTKA-G76□□

Unit : mm





Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

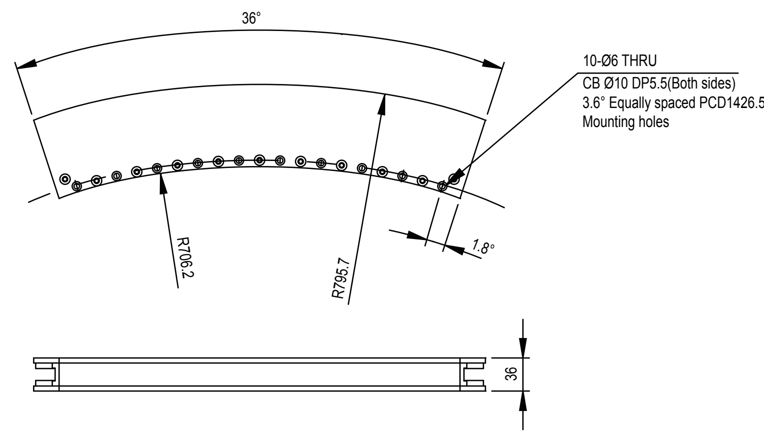
Mating

D-SUB : A-HDF 15LL/Z(Female)

Magnet Track : JTKA-M76A□□

Unit : mm

No.	Magnet assembly	Weight[kg]
1	JTKA-M76A36	7.4



April 2019

製品の改良のため予告なしに、あらゆる外観、仕様等変更することがあります。
本製品は医療、軍需など人命がかかわる分野には使用できません。

www.justek.com 日本語

ご使用上の注意事項

ご使用の前に必ず取扱説明書をよくお読みください。
注意事項を守らない場合、人、製品、システムに致命的な怪我や被害をもたらすおそれがあります。

設置
- 水、腐食性ガス、発火性ガス、又はその他の可燃性物質が近くにある環境で設置したり、又は作動させたりしないでください。

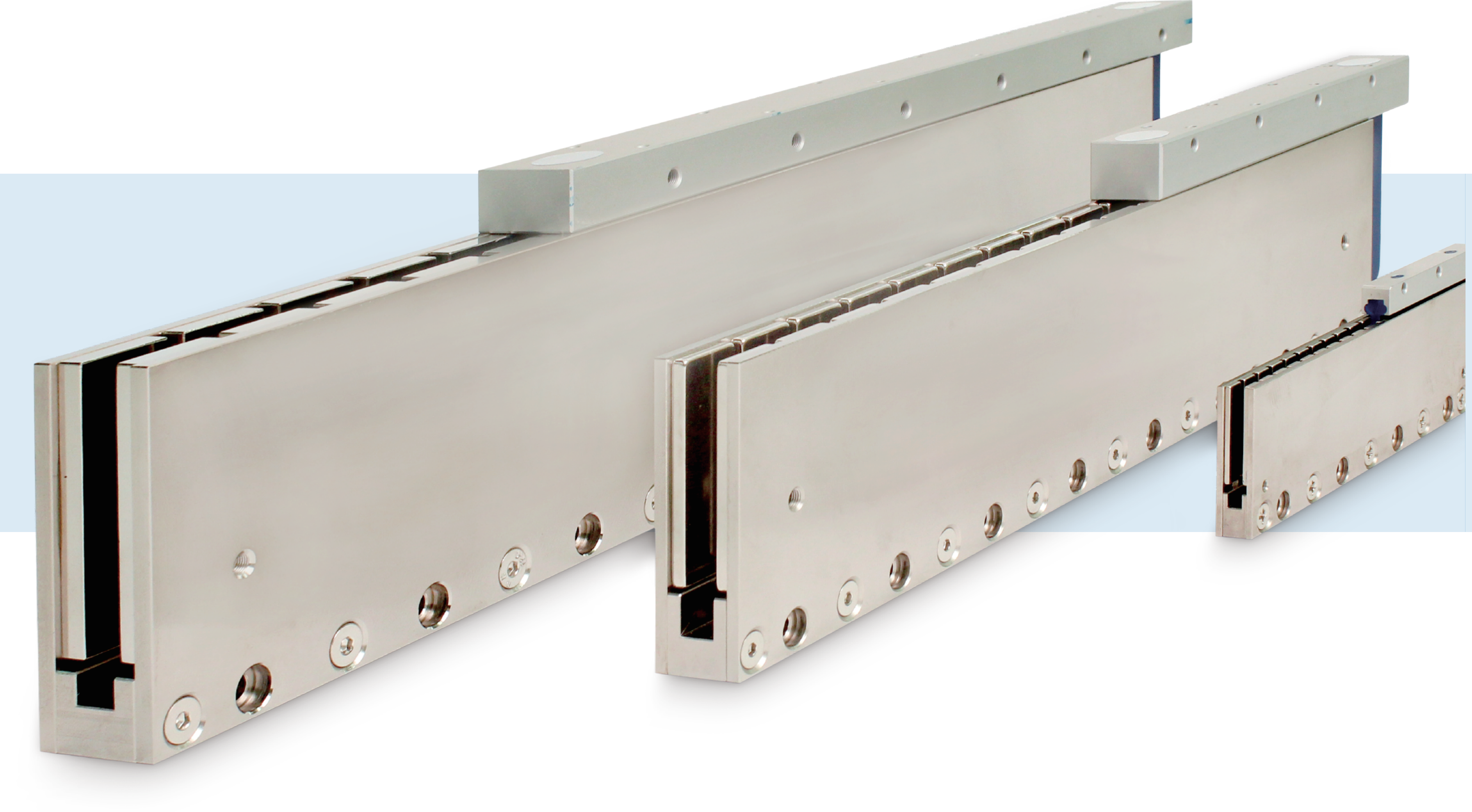
結線
- 接地(FG若しくはG)は、必ず実施してください。
- サーボドライバとモータの接続端子U,V,Wには商用電源を接続しないでください。

動作
- モータの駆動中には、モータの稼働部に絶対に手を触れないでください。
- モータをフレームやベースにしっかりと固定していない状態では,絶対にモータを駆動させないでください。
- モータに負荷や付着物を積載する前に,モータ単独で動かし,正常に駆動するか確認してください。
- モータに負荷や付着物を積載した後には, 制御整数を適切にして,再設定してください。
- モータを動かす前に,非常装置の機能が正常に作動するか必ず確認してから,モータを動かしてください。

補修及び検査
- 電源が供給された状態で、モータやサーボドライバのカバーを開けないでください。
- サーボドライバの電源を遮断してから5分以内に、電源端子に触れないでください。
- サーボドライバの内部には絶対に手を触れないでください。
- モータを分解しないでください。
- サーボドライバ、多軸制御ソリュシヨン、モーションの各部品を分解しないでください。
- 電源が印加された状態でコネクタや電線の連結を変えないでください。

リニアモータコンポーネント

JUSTEK, Inc.
〒17711 大韓民國 京畿道 平澤市 振威面 南部大路 630-46
(旧住所：京畿道 平澤市 振威面 東泉里 613-9)
電話. +82-31-647-5500
ファックス. +82-31-647-5555
電子メール. info@justek.com
ホームページ. www.justek.com



型番構成

コイルの型番構成

JTKC-G3006A

JTK シリーズ

モータ型式
C：コア付き形
L：コアレス形
W：両側形
A：アーク形

G：コイル

シリーズ
コア付き形：30, 56, A0 シリーズ
コアレス形：15, 24, 36, 51 シリーズ
両側形：45, 74 シリーズ
アーク形：30, 42, 50, 61, 65, 76 シリーズ

巻線方式
無記号：標準型
A,B,S：巻線方法表記

コイルの長さ (x10mm)

＊ 空冷モータまたは水冷モータについては,JUSTEKにお問い合わせください。

マグネットプレートの型番構成

JTKC-M30180

JTK シリーズ

モータ型式
C：コア付き形
L：コアレス形
W：両側形
A：アーク形

M：マグネットプレート

Series
コア付き形：30, 56, A0 シリーズ
コアレス形：15, 24, 36, 51 シリーズ
両側形：45, 74 シリーズ
アーク形：30, 42, 50, 61, 65, 76 シリーズ

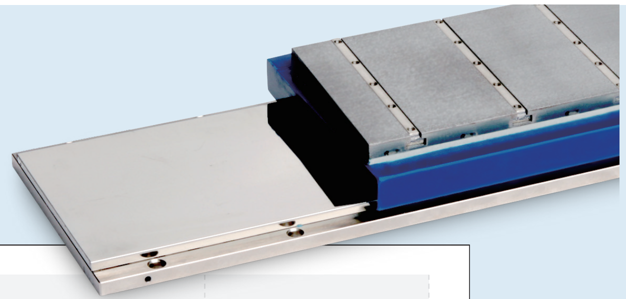
マグネットプレートの長さ (mm)
：□□□

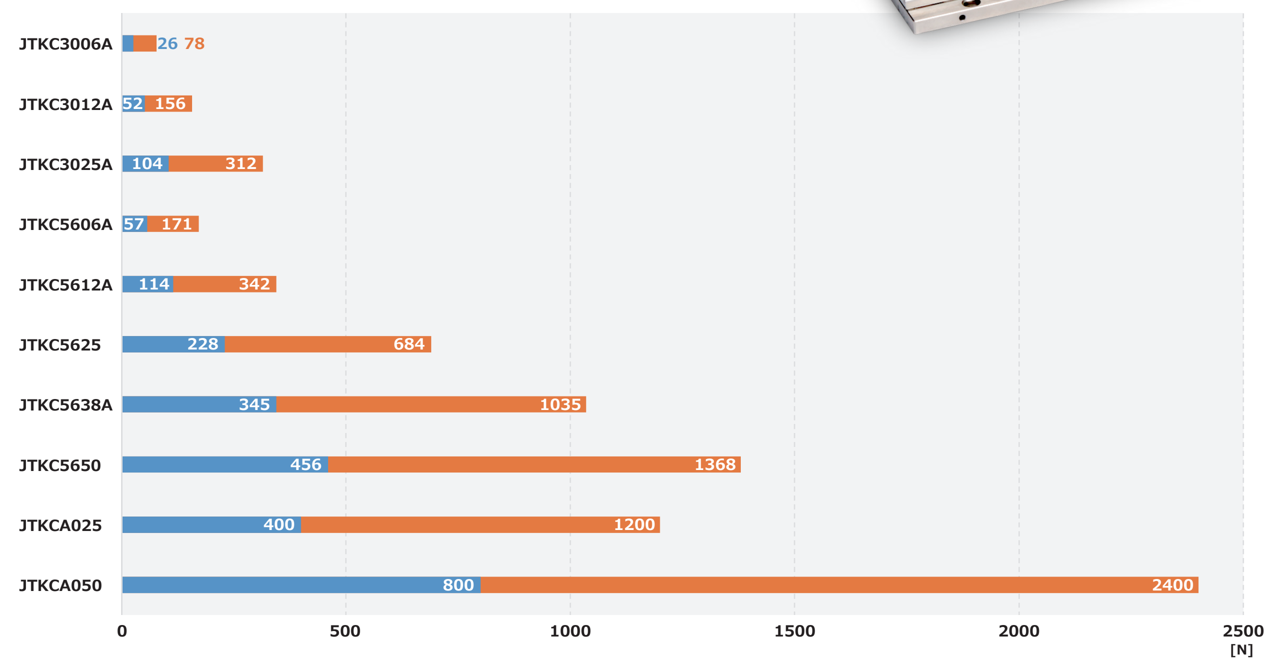
マグネットプレート角度 (deg)
：A□□

目次

JTKC シリーズ

コア付き形リニアモータ

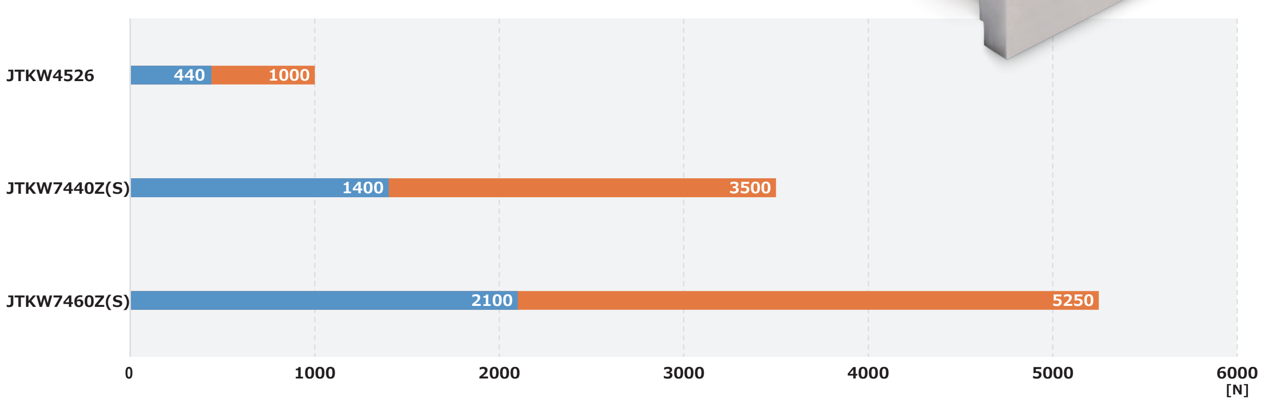




	JTKC3006A	JTKC3012A	JTKC3025A	JTKC5606A	JTKC5612A	JTKC5625	JTKC5638A	JTKC5650	JTKCA025	JTKCA050
■ 最大推力	78	156	312	171	342	684	1035	1368	1200	2400
■ 連続推力	26	52	104	57	114	228	345	456	400	800

JTKW シリーズ

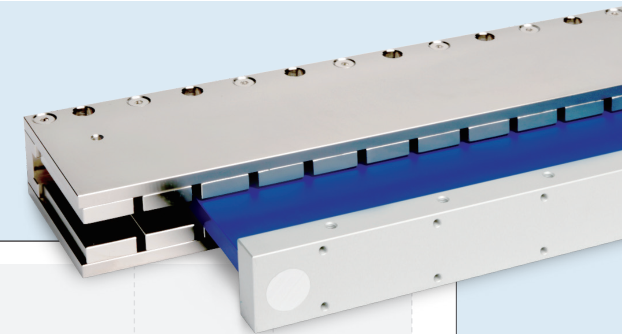
両側形リニアモータ

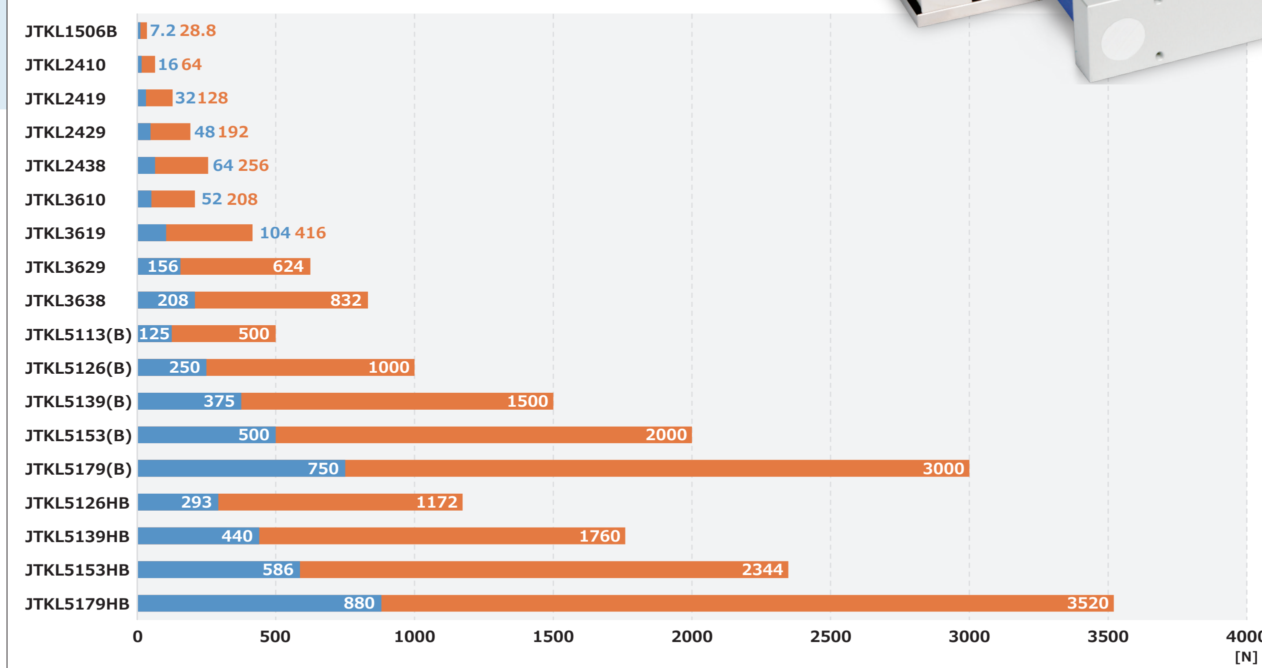


	JTKW4526	JTKW7440Z(S)	JTKW7460Z(S)
■ 最大推力	1000	3500	5250
■ 連続推力	440	1400	2100

JTKL シリーズ

コアレス形リニアモータ

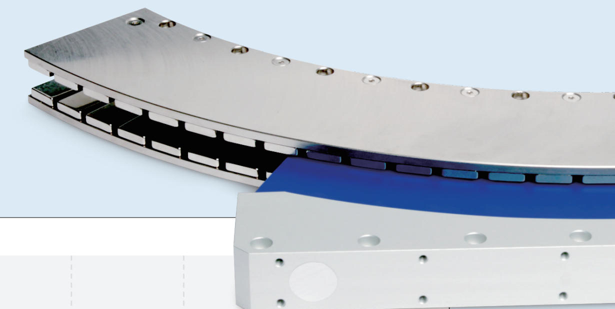


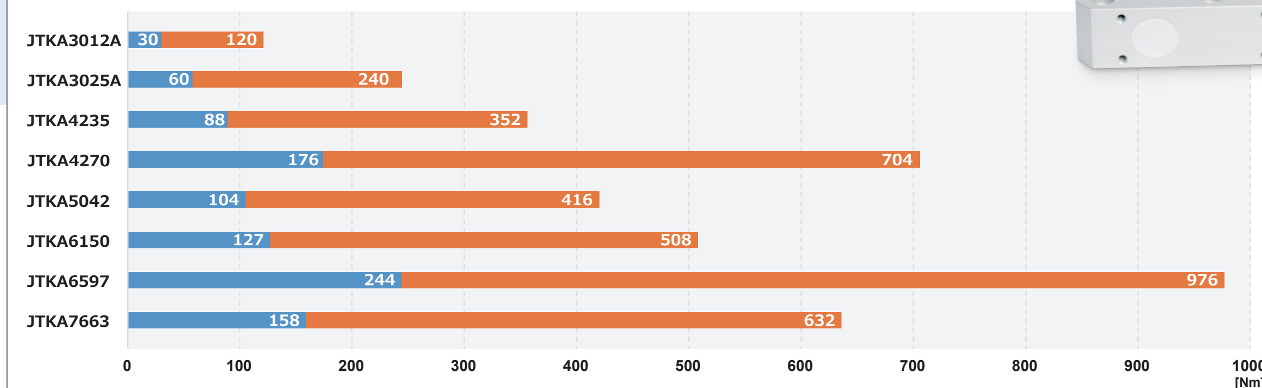


	JTKL1506B	JTKL2410	JTKL2419	JTKL2429	JTKL2438	JTKL3610	JTKL3619	JTKL3629	JTKL3638
■ 最大推力	28.8	64	128	192	256	208	416	624	832
■ 連続推力	7.2	16	32	48	64	52	104	156	208
	JTKL5113(B)	JTKL5126(B)	JTKL5139(B)	JTKL5153(B)	JTKL5179(B)	JTKL5126HB	JTKL5139HB	JTKL5153HB	JTKL5179HB
	500	1000	1500	2000	3000	1172	1760	2344	3520
	125	250	375	500	750	293	440	586	880

JTKA シリーズ

アーク形リニアモータ

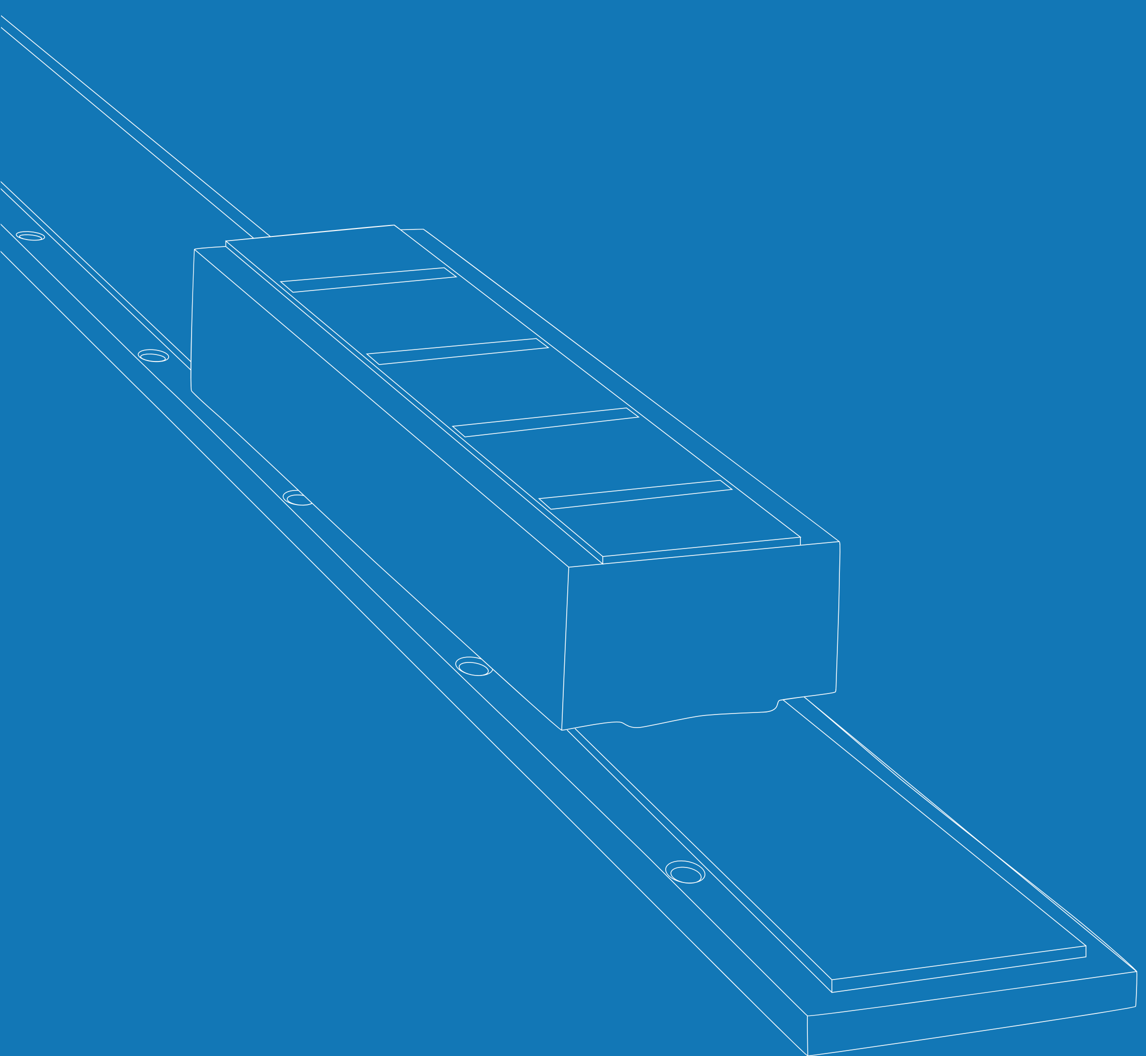




	JTKA3012A	JTKA3025A	JTKA4235	JTKA4270	JTKA5042	JTKA6150	JTKA6597	JTKA7663
■ 最大トルク	120	240	352	704	416	508	976	632
■ 連続トルク	30	60	88	176	104	127	244	158

コア付き形

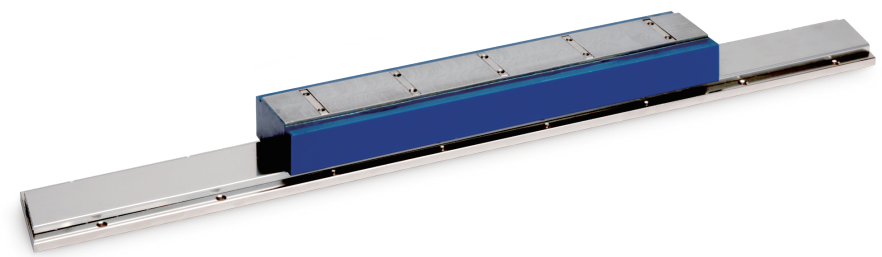
JUSTEK Linear Motors



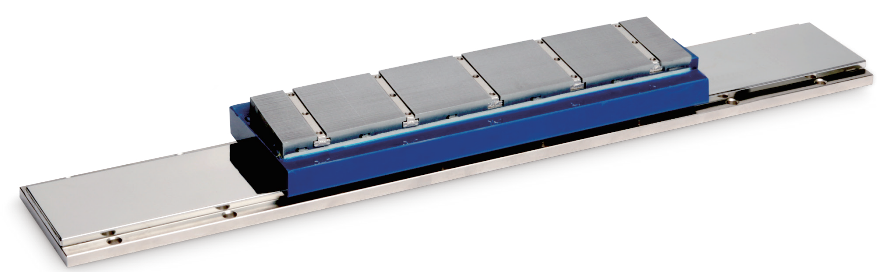
共通仕様

絶縁抵抗	10MΩ以上
耐電圧	AC1500V, 15mA, 1分間
動作湿度	20-80% RH (結露や霜がないこと)
動作温度	0 ~ 40℃

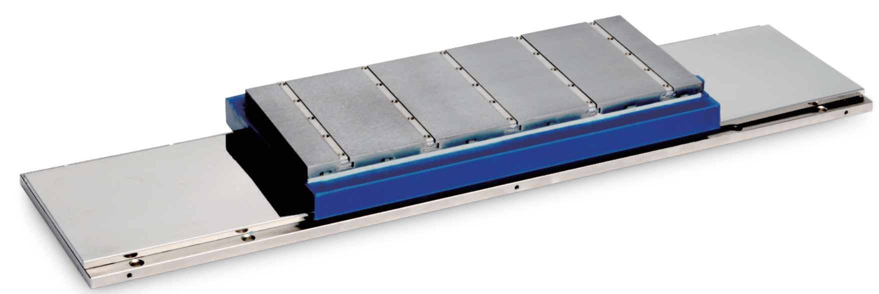
JTKC30A シリーズ



JTKC56(A) シリーズ



JTKCA0 シリーズ



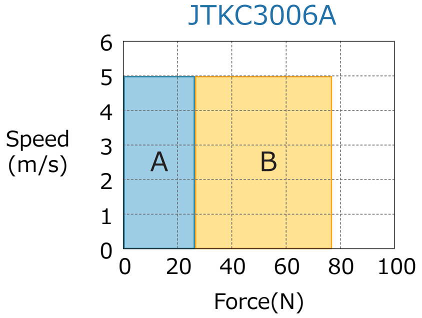
製品仕様

C30A

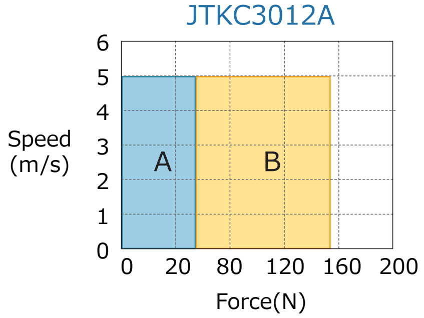
仕様項目	記号	単位	型番		
			JTKC3006A	JTKC3012A	JTKC3025A
連続推力	F_c	N	26	52	104
最大推力	F_p	N	78	156	312
連続電流	I_c@T_{max}	A_{rms}	1	2	4
最大電流	I_p	A_{rms}	3	6	12
推力定数	K_f	N/A_{rms}	26.3	26.3	26.3
電気的時定数	T_e	ms	4.1	4.1	3.8
誘起電圧定数	K_e	V_{rms}/m/s	15.2	15.2	15.2
相間抵抗(25℃)	R_s	Ω	5.9	3.0	1.6
相間インダクタンス	L_s	mH	24.4	12.2	6.1
モータ定数	K_M	N/$\sqrt{W}$	7.8	11.0	15.0
コイル質量	M_C	kg	0.4	0.8	1.6
最大速度	V_{max}	m/s	5	5	5
ポールピッチ (N to S)	-	mm	15	15	15
定格出力	P_C	W	132	263	526

A：連続領域
B：反復領域

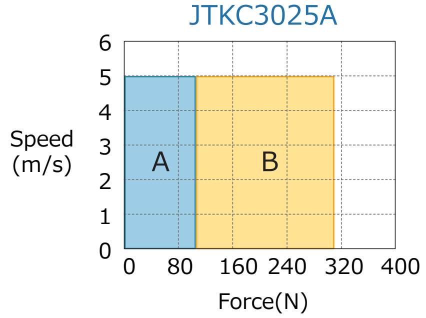
JTKC3006A



JTKC3012A



JTKC3025A



*注意：入力電圧が三相AC220Vの場合です。

外形図

C30A

コイル：JTKC-G30□□A

Unit : mm

Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Mating

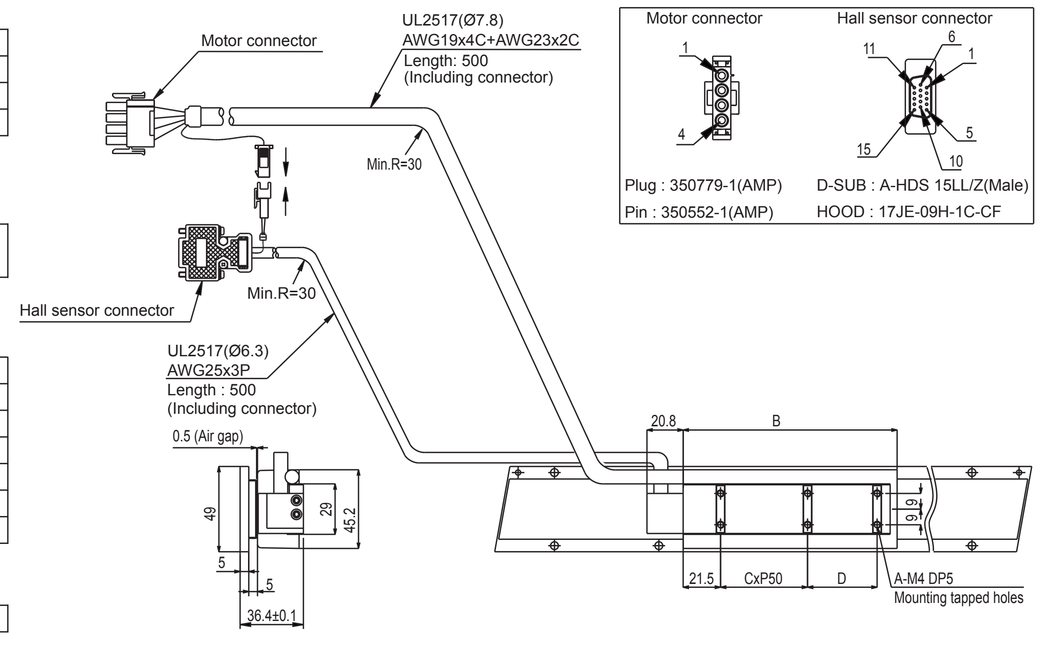
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

Hall sensor terminal connection

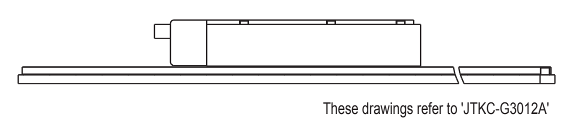
04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

D-SUB : A-HDF 15LL/Z(Female)



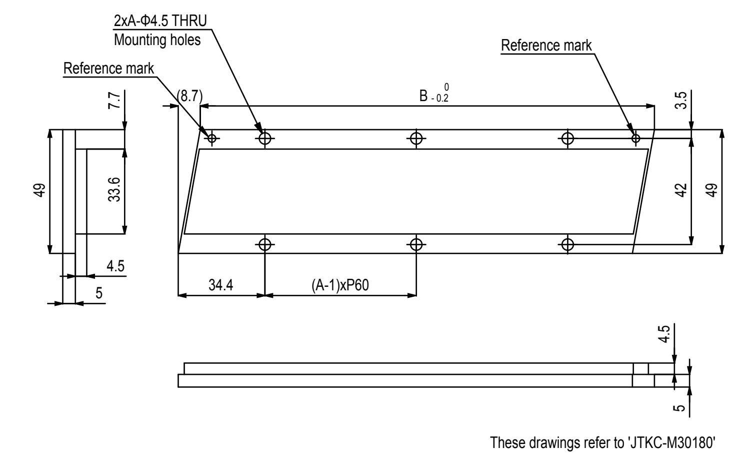
No.	Coil assembly	A	B	C	D	Weight[kg]
1	JTKC-G3006A	4	63	0	30	0.4
2	JTKC-G3012A	6	123	1	40	0.8
3	JTKC-G3025A	10	244.5	4	0	1.6



マグネットプレート：JTKC-M30□□□

Unit : mm

No.	Magnet assembly	A	B	Weight[kg]
1	JTKC-M30180	3	180	0.55
2	JTKC-M30240	4	240	0.73
3	JTKC-M30300	5	300	0.91
4	JTKC-M30480	8	480	1.46



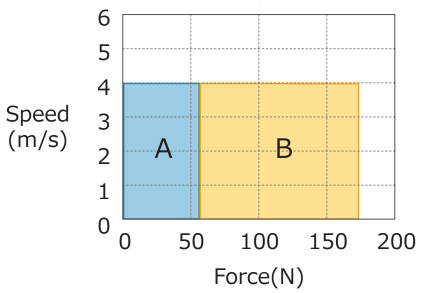
C56(A)

製品仕様

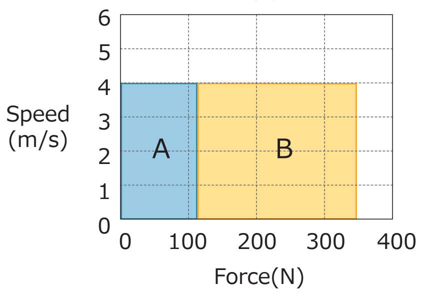
仕様項目	記号	単位	型番 JTKC5606A	JTKC5612A	JTKC5625	JTKC5638A	JTKC5650
連続推力	F_c	N	57	114	228	345	456
最大推力	F_p	N	171	342	684	1035	1368
連続電流	$I_c@T_{max}$	A_{rms}	1.2	2.4	3.6	7.2	7.2
最大電流	I_p	A_{rms}	3.6	7.2	10.8	21.6	21.6
推力定数	K_f	N/A_{rms}	47.9	47.9	63.9	47.9	63.9
電気的時定数	T_e	ms	4.6	4.3	4.3	4.1	4.3
誘起電圧定数	K_e	$V_{rms}/m/s$	27.7	27.7	36.9	27.7	36.9
相間抵抗(25℃)	R_s	Ω	9.0	4.7	4.5	1.7	2.3
相間インダクタンス	L_s	mH	41.7	20.1	19.3	6.8	9.7
モータ定数	K_M	$N/\sqrt{W}$	11.5	16.0	21.8	27.0	30.8
コイル質量	M_c	kg	0.7	1.4	2.5	3.8	5.0
最大速度	V_{max}	m/s	4	4	3	4	3
ポールピッチ (N to S)	-	mm	15	15	15	15	15
定格出力	P_c	W	230	460	690	1380	1380

A：連続領域
B：反復領域

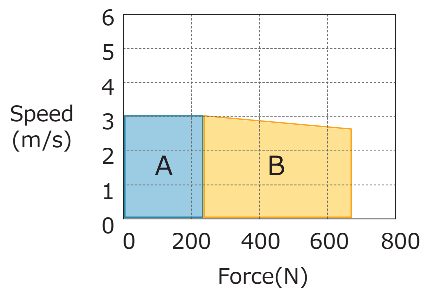
JTKC5606A



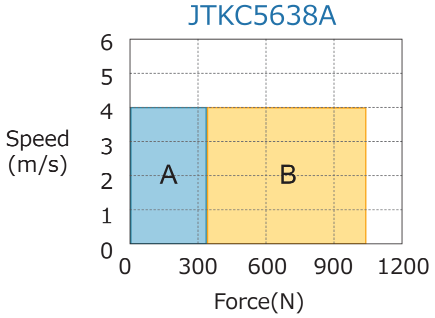
JTKC5612A



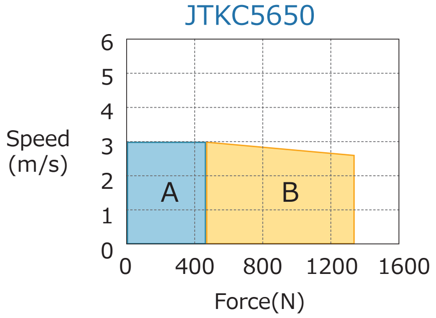
JTKC5625



JTKC5638A



JTKC5650



*注意：入力電圧が三相AC220Vの場合です。

C56(A)

外形図

コイル：JTKC-G56□□(A)

Unit : mm

Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Mating

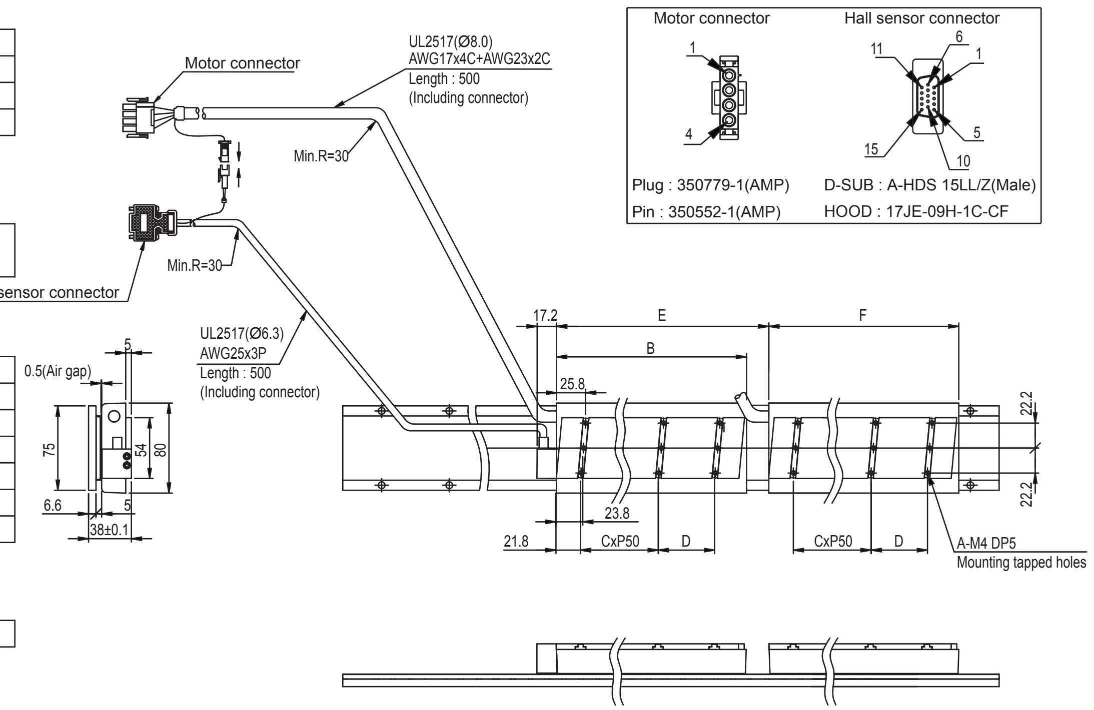
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

D-SUB : A-HDF 15LL/Z(Female)



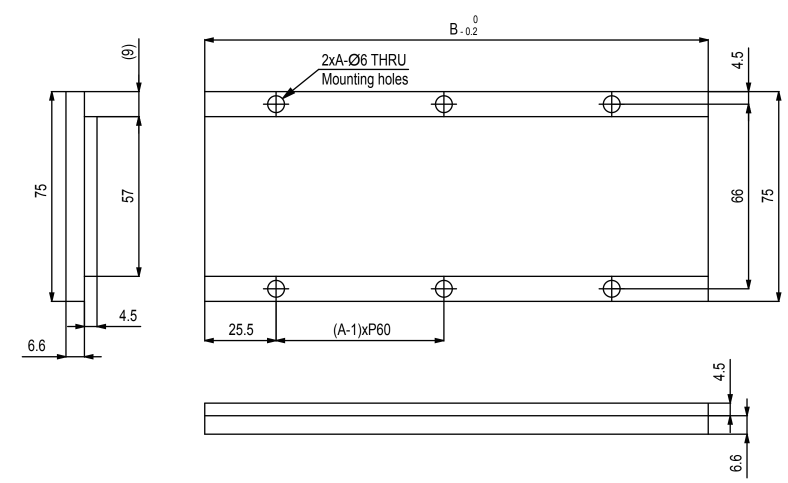
These drawings refer to 'JTKC-G5650'

No.	Coil assembly	A	B	C	D	E	F	Weight[kg]	Cable
1	JTKC-G5606A	6	65.5	0	29.5	N/A	N/A	0.7	UL2517(Ø7.8) AWG19x4C
2	JTKC-G5612A	9	128	1	40	N/A	N/A	1.4	UL2517(Ø7.8) AWG19x4C
3	JTKC-G5625	15	250	4	N/A	N/A	N/A	2.5	UL2517(Ø7.8) AWG19x4C
4	JTKC-G5638A	24	190	3	N/A	210	=B	3.8	UL2517(Ø8.0) AWG17x4C
5	JTKC-G5650	30	250	4	N/A	270	=B	5.0	UL2517(Ø8.0) AWG17x4C

マグネットプレート：JTKC-M56□□□

Unit : mm

No.	Magnet assembly	A	B	Weight[kg]
1	JTKC-M56180	3	180	0.93
2	JTKC-M56240	4	240	1.24
3	JTKC-M56300	5	300	1.55
4	JTKC-M56480	8	480	2.48



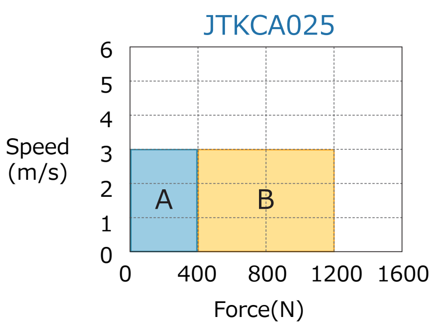
These drawings refer to 'JTKC-M56180'

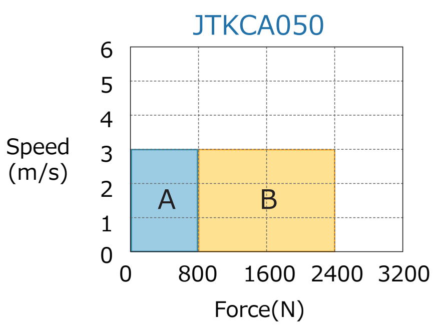
CA0

製品仕様

仕様項目	記号	単位	型番	
			JTKCA025	JTKCA050
連続推力	F_c	N	400	800
最大推力	F_p	N	1200	2400
連続電流	$I_c@T_{max}$	A_{rms}	6	12
最大電流	I_p	A_{rms}	18	36
推力定数	K_f	N/A_{rms}	66.7	66.7
電気的時定数	T_e	ms	4.3	4.5
誘起電圧定数	K_e	$V_{rms}/m/s$	38.5	38.5
相間抵抗(25℃)	R_s	Ω	1.9	0.9
相間インダクタンス	L_s	mH	8.1	4.1
モータ定数	K_M	$N/\sqrt{W}$	35.0	50.8
コイル質量	M_C	kg	4.3	8.6
最大速度	V_{max}	m/s	3	3
ポールピッチ (N to S)	-	mm	15	15
定格出力	P_c	W	1200	2400

A：連続領域
B：反復領域





*注意：入力電圧が三相AC220Vの場合です。

CA0

外形図

コイル：JTKC-GA0□□

Unit : mm

Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Mating

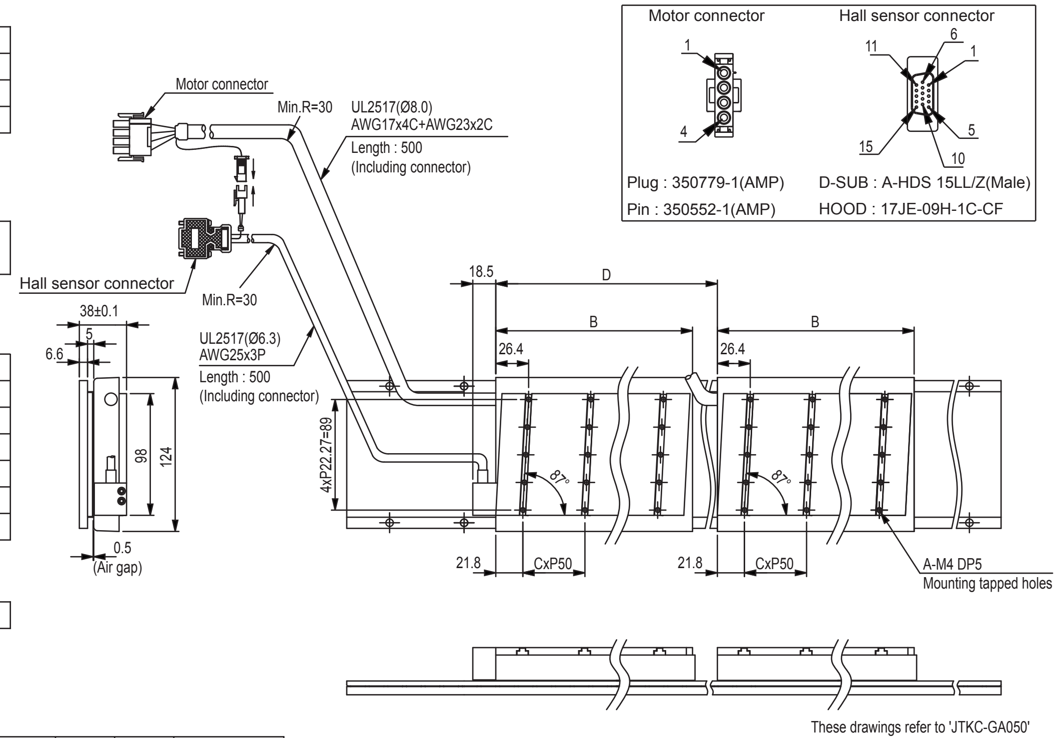
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

D-SUB : A-HDF 15LL/Z(Female)



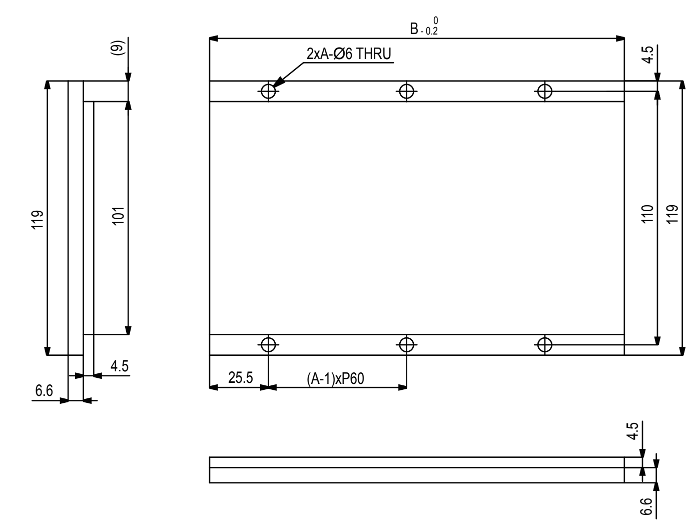
These drawings refer to 'JTKC-GA050'

No.	Coil assembly	A	B	C	D	Weight[kg]
1	JTKC-GA025	25	250	4	N/A	4.3
2	JTKC-GA050	50	250	4	300	8.6

マグネットプレート：JTKC-MA0□□□

Unit : mm

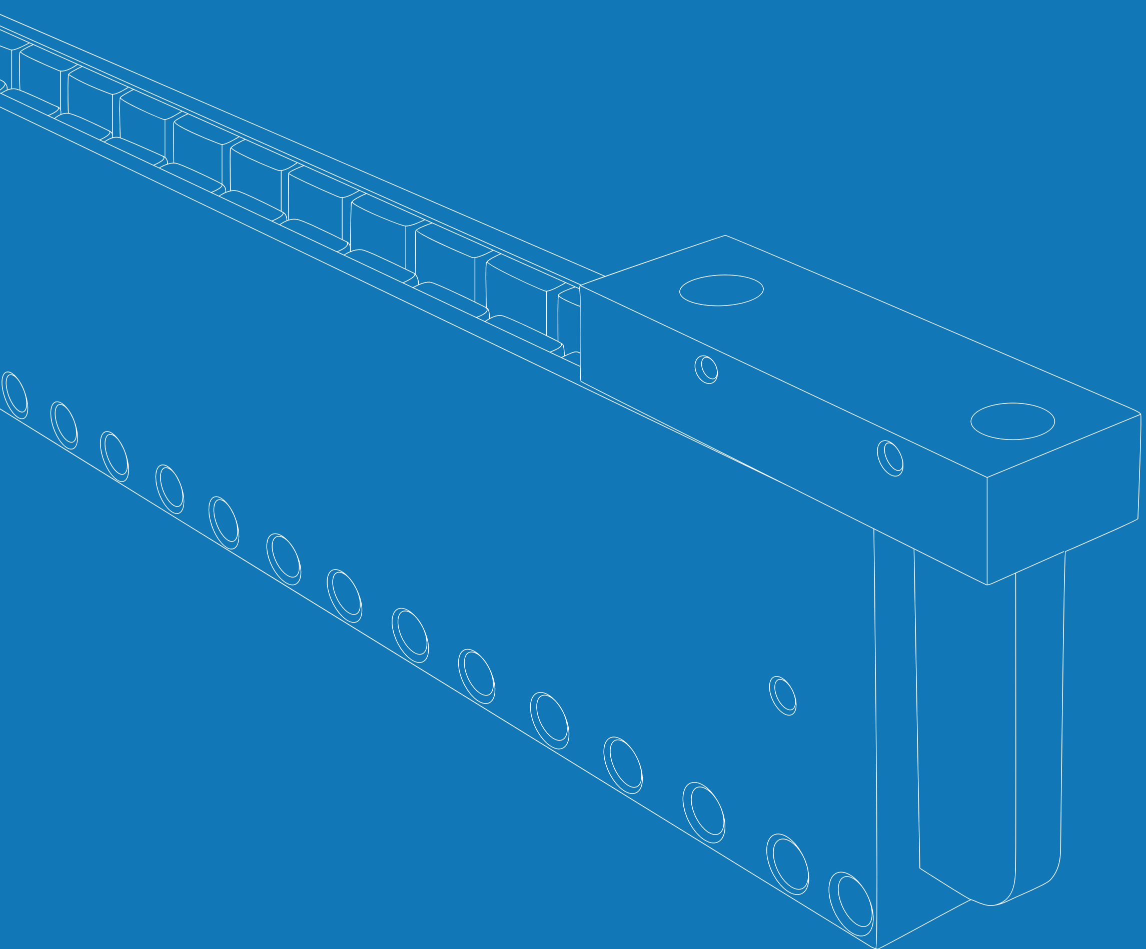
No.	Magnet assembly	A	B	Weight[kg]
1	JTKC-MA0180	3	180	1.5
2	JTKC-MA0240	4	240	2.0
3	JTKC-MA0300	5	300	2.5
4	JTKC-MA0480	8	480	4.1



These drawings refer to 'JTKC-MA0180'

コアレス形

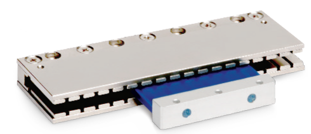
JUSTEK Linear Motors



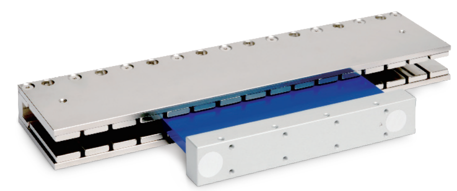
共通仕様

絶縁抵抗	10MΩ以上
耐電圧	AC1500V, 15mA, 1分間
動作湿度	20-80% RH (結露や霜がないこと)
動作温度	0 ~ 40℃

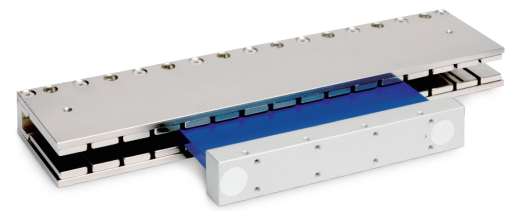
JTKL15B シリーズ



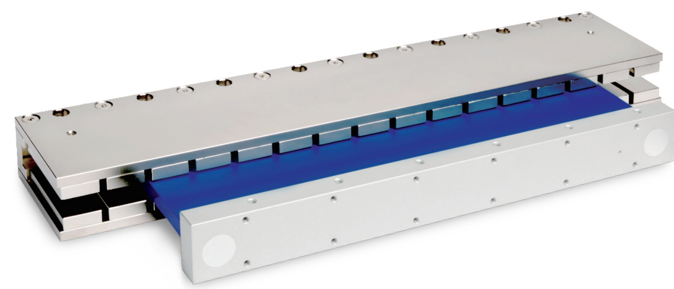
JTKL24 シリーズ



JTKL36 シリーズ



JTKL51(B),HB シリーズ

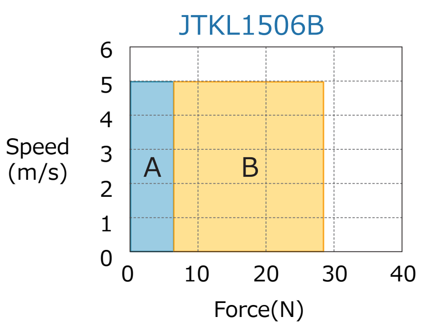


L15B

製品仕様

仕様項目	記号	単位	型番
			JTKL1506B
連続推力	F_c	N	7.2
最大推力	F_p	N	28.8
連続電流	$I_c@T_{max}$	A_{rms}	0.8
最大電流	I_p	A_{rms}	3.2
推力定数	K_f	N/A_{rms}	9
電気的時定数	T_e	ms	0.2
誘起電圧定数	K_e	$V_{rms}/m/s$	5.2
相間抵抗(25℃)	R_s	Ω	4
相間インダクタンス	L_s	mH	0.62
モータ定数	K_M	$N/\sqrt{W}$	3.2
コイル質量	M_C	g	92
最大速度	V_{max}	m/s	5
ポールピッチ (N to S)	-	mm	8.4
定格出力	P_C	W	36

A：連続領域
B：反復領域



*注意：入力電圧が三相AC220Vの場合です。

L15B

外形図

コイル：JTKL-G15□□B

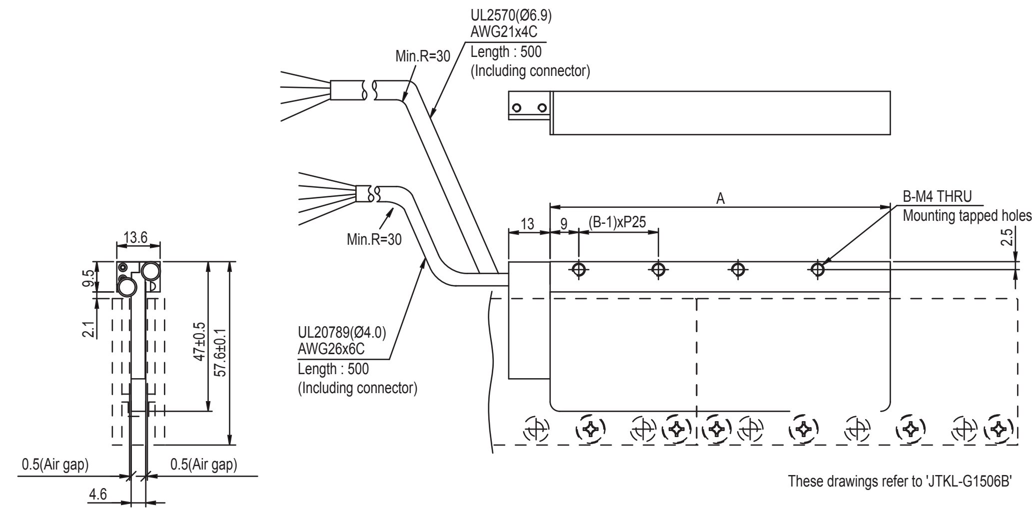
Unit : mm

Motor terminal connection

Phase U	Black
Phase V	White
Phase W	Red
Frame ground	Green

Hall sensor terminal connection

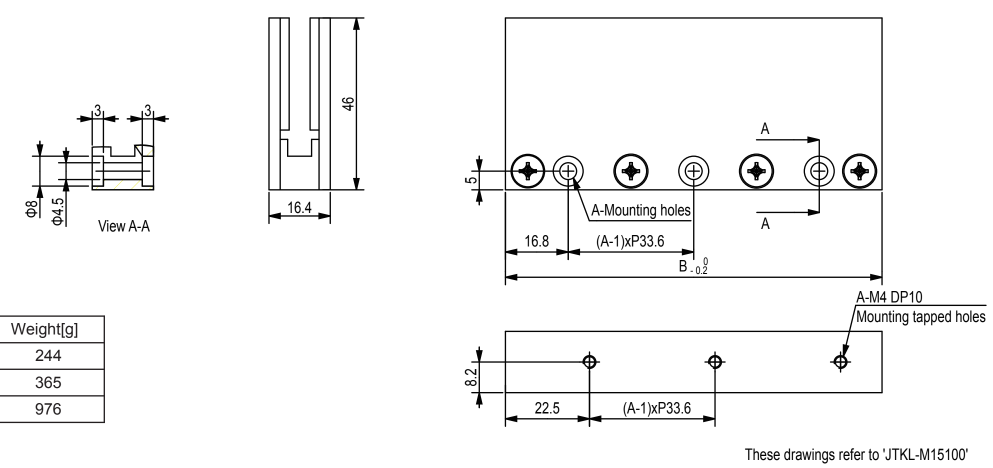
VCC	Red
GND	Black
Hall A	Green
Hall B	Yellow
Hall C	Brown



No.	Coil assembly	A	B	Weight[g]
1	JTKL-G1506B	69.2	3	91.4

マグネットプレート：JTKL-M15□□□

Unit : mm



No.	Magnet assembly	A	B	Weight[g]
1	JTKL-M15067	2	67.2	244
2	JTKL-M15100	3	100.8	365
3	JTKL-M15269	8	268.8	976

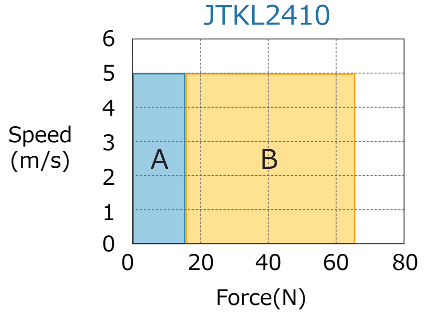
製品仕様

L24

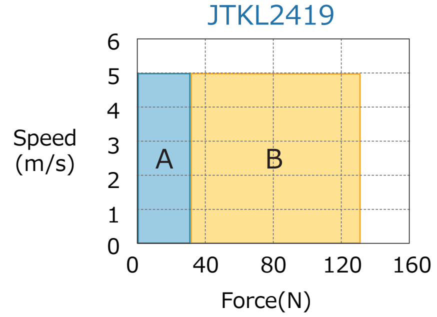
仕様項目	記号	単位	型番			
			JTKL2410	JTKL2419	JTKL2429	JTKL2438
連続推力	F_c	N	16	32	48	64
最大推力	F_p	N	64	128	192	256
連続電流	I_c@T_{max}	A_{rms}	1.1	2.1	3.2	4.2
最大電流	I_p	A_{rms}	4.2	8.4	12.6	16.8
推力定数	K_f	N/A_{rms}	15.2	15.2	15.2	15.2
電気的時定数	T_e	ms	0.7	0.7	0.7	0.7
誘起電圧定数	K_e	V_{rms}/m/s	8.8	8.8	8.8	8.8
相間抵抗(25℃)	R_s	Ω	5.0	2.5	1.7	1.3
相間インダクタンス	L_s	mH	3.6	1.8	1.2	0.9
モータ定数	K_M	$N/\sqrt{W}$	4.9	7.0	8.5	9.9
コイル質量	M_c	kg	0.3	0.6	0.9	1.2
最大速度	V_{max}	m/s	5	5	5	5
ポールピッチ (N to S)	-	mm	24	24	24	24
定格出力	P_c	W	80	160	240	320

A：連続領域
B：反復領域

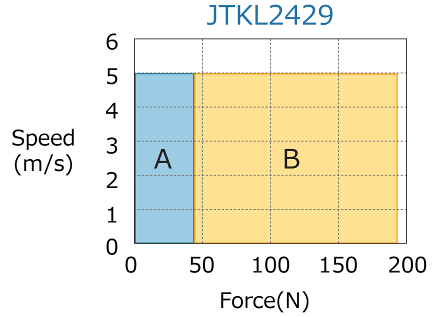
JTKL2410



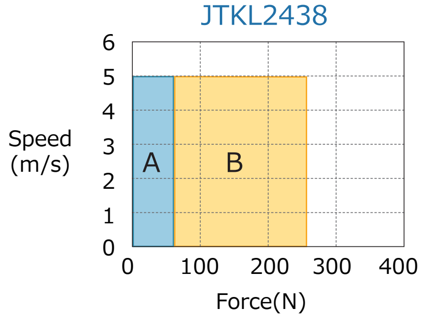
JTKL2419



JTKL2429



JTKL2438



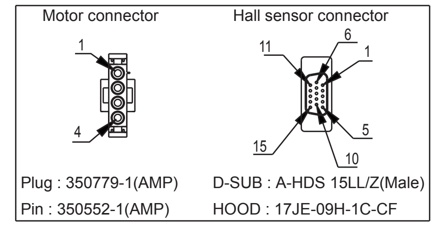
*注意：入力電圧が三相AC220Vの場合です。

外形図

L24

コイル：JTKL-G24□□

Unit : mm



Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Mating

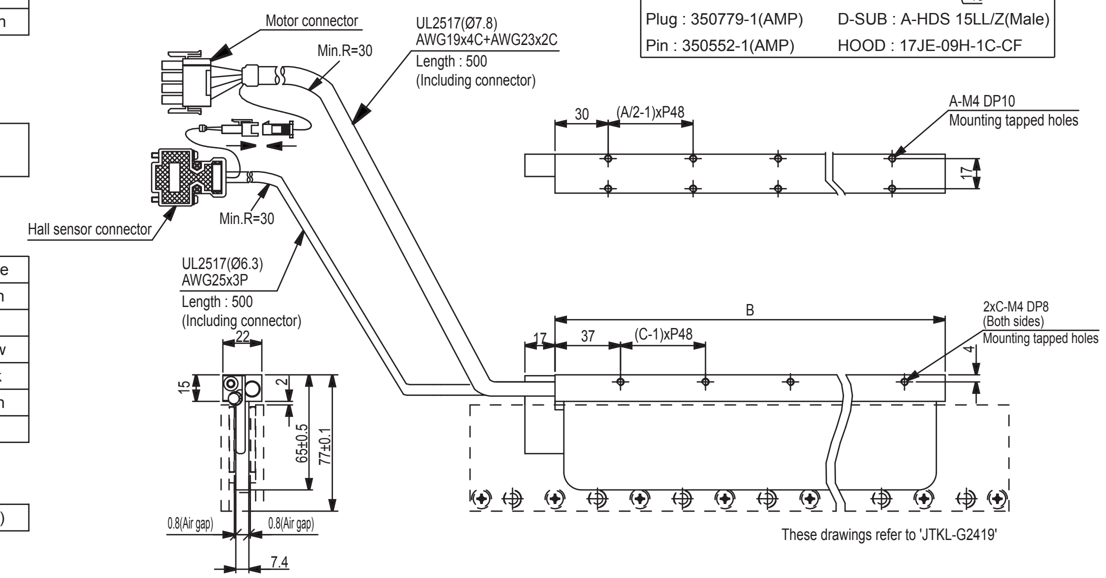
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

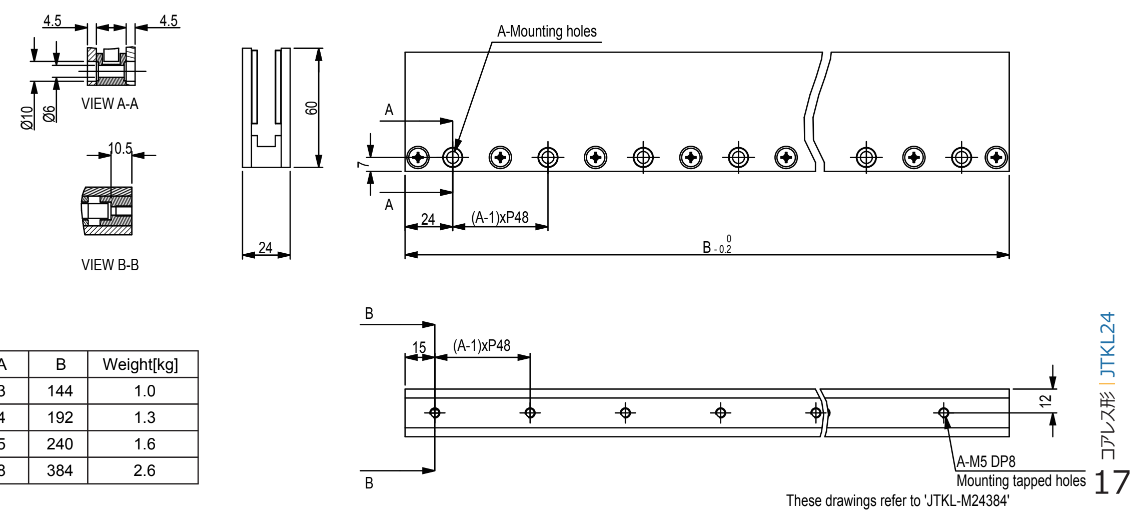
D-SUB : A-HDF 15LL/Z(Female)



No.	Coil assembly	A	B	C	Weight[kg]
1	JTKL-G2410	4	108	2	0.3
2	JTKL-G2419	8	204	4	0.6
3	JTKL-G2429	12	300	6	0.9
4	JTKL-G2438	16	396	8	1.2

マグネットプレート：JTKL-M24□□□

Unit : mm



No.	Magnet assembly	A	B	Weight[kg]
1	JTKL-M24144	3	144	1.0
2	JTKL-M24192	4	192	1.3
3	JTKL-M24240	5	240	1.6
4	JTKL-M24384	8	384	2.6

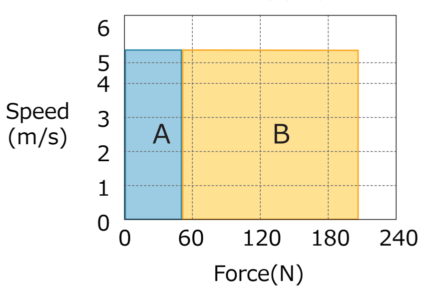
製品仕様

L36

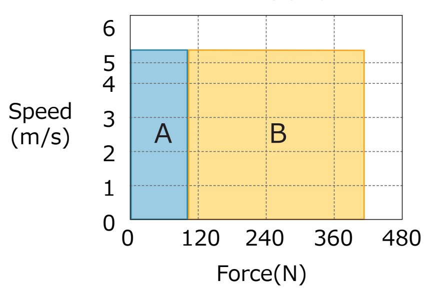
仕様項目	記号	単位	型番			
			JTKL3610	JTKL3619	JTKL3629	JTKL3638
連続推力	F_c	N	52	104	156	208
最大推力	F_p	N	208	416	624	832
連続電流	I_c@T_{max}	A_{rms}	1.5	3.0	4.5	6.0
最大電流	I_p	A_{rms}	6	12	18	24
推力定数	K_f	N/A_{rms}	34.7	34.7	34.7	34.7
電気的時定数	T_e	ms	1.2	1.1	1.1	1.0
誘起電圧定数	K_e	V_{rms}/m/s	20	20	20	20
相間抵抗(25℃)	R_s	Ω	5.9	3.0	2.1	1.7
相間インダクタンス	L_s	mH	6.9	3.5	2.3	1.8
モータ定数	K_M	N/$\sqrt{W}$	10.3	14.4	17.3	19.5
コイル質量	M_c	kg	0.6	1.2	1.8	2.4
最大速度	V_{max}	m/s	5	5	5	5
ポールピッチ (N to S)	-	mm	24	24	24	24
定格出力	P_c	W	260	520	780	1040

A：連続領域
B：反復領域

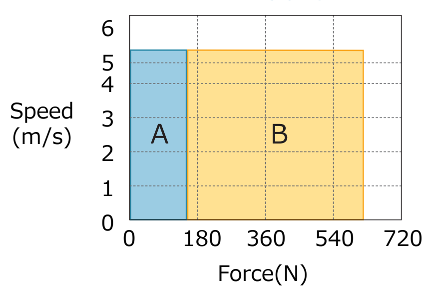
JTKL3610



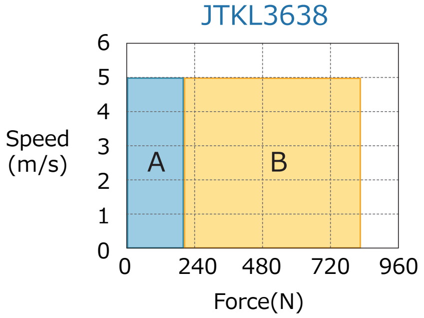
JTKL3619



JTKL3629



JTKL3638



*注意：入力電圧が三相AC220Vの場合です。

外形図

L36

コイル：JTKL-G36□□

Unit : mm

Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Mating

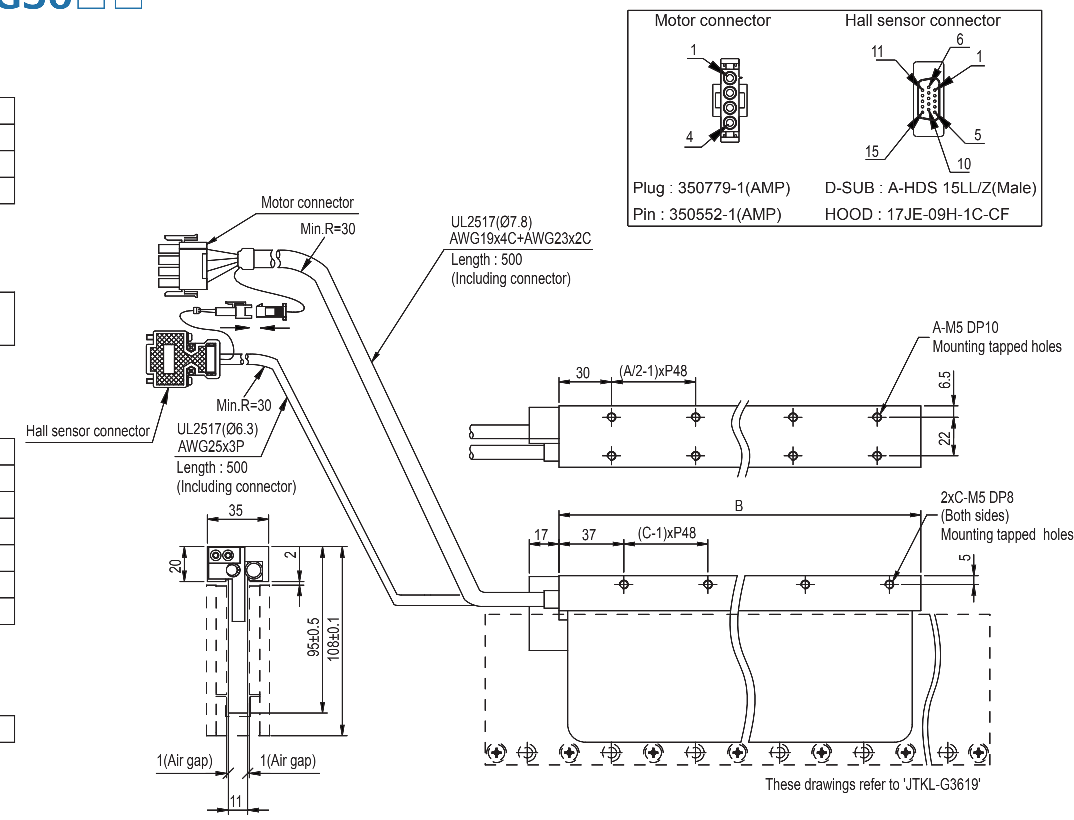
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

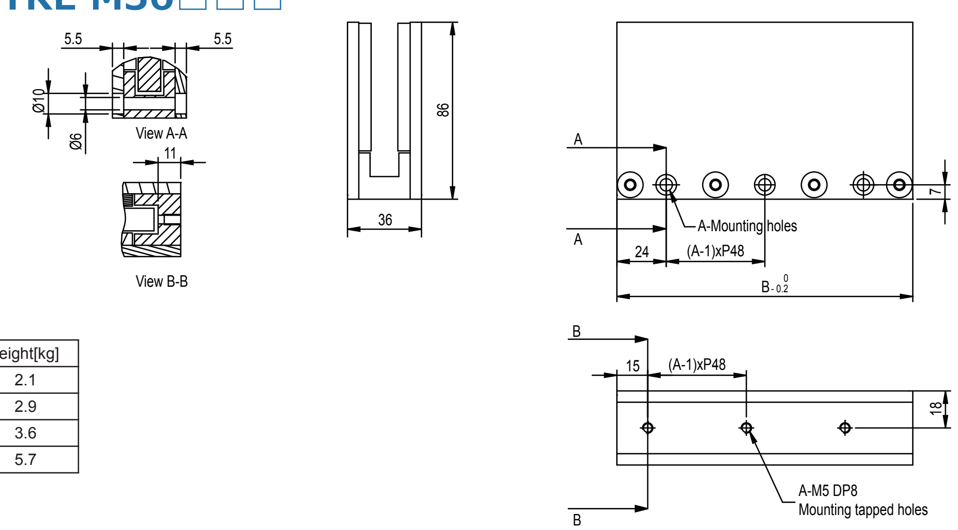
D-SUB : A-HDF 15LL/Z(Female)



No.	Coil assembly	A	B	C	Weight[kg]	Cable
1	JTKL-G3610	4	108	2	0.6	UL2517(Ø7.8) AWG19x4C
2	JTKL-G3619	8	204	4	1.2	UL2517(Ø7.8) AWG19x4C
3	JTKL-G3629	12	300	6	1.8	UL2517(Ø7.8) AWG19x4C
4	JTKL-G3638	16	396	8	2.4	UL2517(Ø8.0) AWG17x4C

マグネットプレート：JTKL-M36□□□

Unit : mm



No.	Magnet assembly	A	B	Weight[kg]
1	JTKL-M36144	3	144	2.1
2	JTKL-M36192	4	192	2.9
3	JTKL-M36240	5	240	3.6
4	JTKL-M36384	8	384	5.7

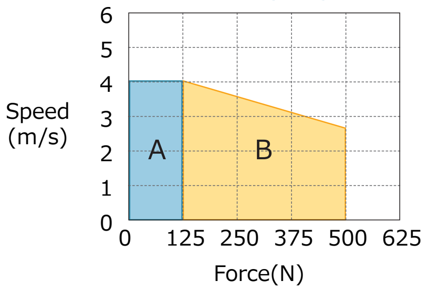
L51

製品仕様

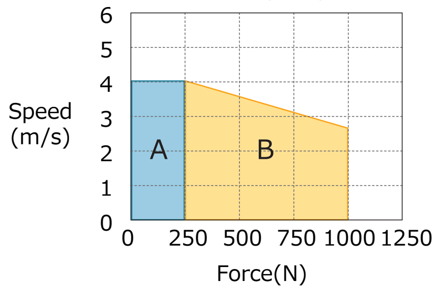
仕様項目	記号	単位	型番				
			JTKL5113	JTKL5126	JTKL5139	JTKL5153	JTKL5179
連続推力	F_c	N	125	250	375	500	750
最大推力	F_p	N	500	1000	1500	2000	3000
連続電流	$I_c@T_{max}$	A_{rms}	2	4	6	8	12
最大電流	I_p	A_{rms}	8	16	24	32	48
推力定数	K_f	N/A_{rms}	62.5	62.5	62.5	62.5	62.5
電気的時定数	T_e	ms	2.0	2.0	1.9	1.8	1.8
誘起電圧定数	K_e	$V_{rms}/m/s$	36.1	36.1	36.1	36.1	36.1
相間抵抗(25℃)	R_s	Ω	6.3	3.2	2.2	1.8	1.2
相間インダクタンス	L_s	mH	12.6	6.3	4.2	3.2	2.2
モータ定数	K_M	$N/\sqrt{W}$	18.0	25.2	30.4	34.1	41.6
コイル質量	M_c	kg	1.0	2.1	3.1	4.2	6.3
最大速度	V_{max}	m/s	4	4	4	4	4
ポールピッチ (N to S)	-	mm	33	33	33	33	33
定格出力	P_c	W	500	1000	1500	2000	3000

A：連続領域
B：反復領域

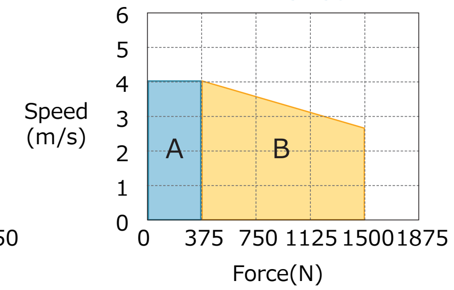
JTKL5113



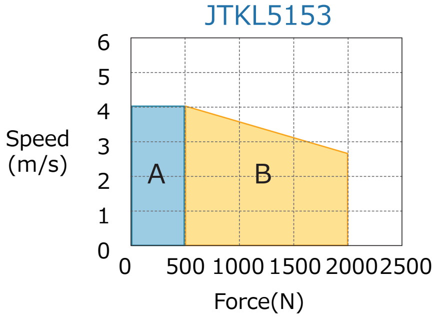
JTKL5126



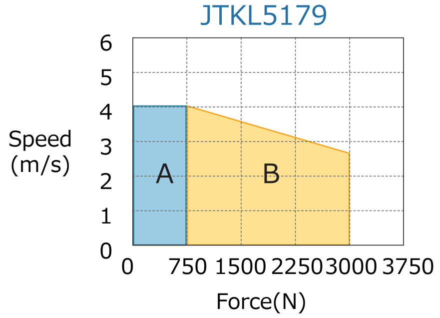
JTKL5139



JTKL5153



JTKL5179



*注意：入力電圧が三相AC220Vの場合です。

L51

外形図

コイル：JTKL-G51□□

Unit : mm

Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Mating

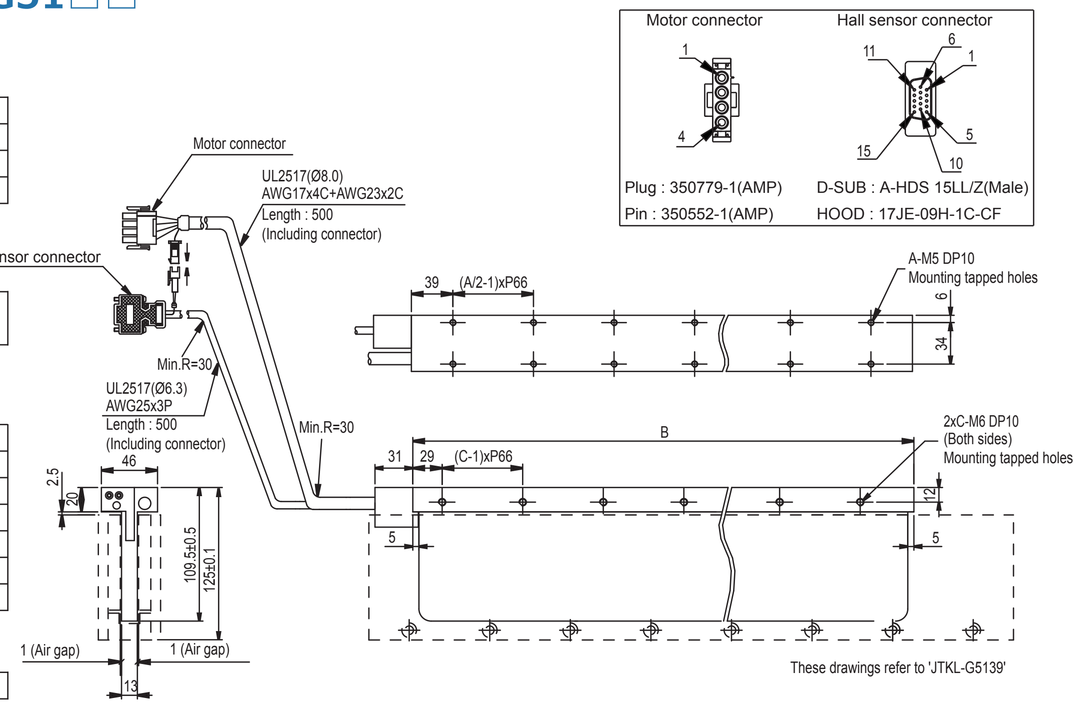
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

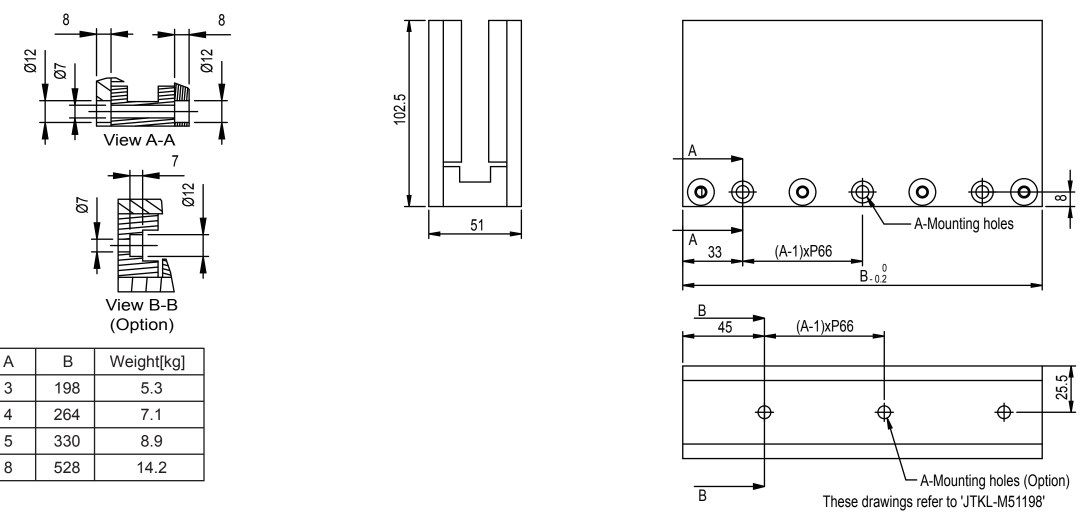
D-SUB : A-HDF 15LL/Z(Female)



No.	Coil assembly	A	B	C	Weight[kg]	Cable
1	JTKL-G5113	4	144	2	1.0	UL2517(Ø7.8) AWG19X4C
2	JTKL-G5126	8	276	4	2.1	UL2517(Ø7.8) AWG19X4C
3	JTKL-G5139	12	408	6	3.1	UL2517(Ø8.0) AWG17X4C
4	JTKL-G5153	16	540	8	4.2	UL2517(Ø8.0) AWG17X4C
5	JTKL-G5179	24	804	12	6.3	UL2517(Ø8.0) AWG17X4C

マグネットプレート：JTKL-M51□□□

Unit : mm



No.	Magnet assembly	A	B	Weight[kg]
1	JTKL-M51198	3	198	5.3
2	JTKL-M51264	4	264	7.1
3	JTKL-M51330	5	330	8.9
4	JTKL-M51528	8	528	14.2

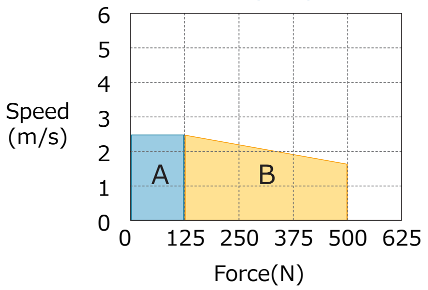
製品仕様

L51B

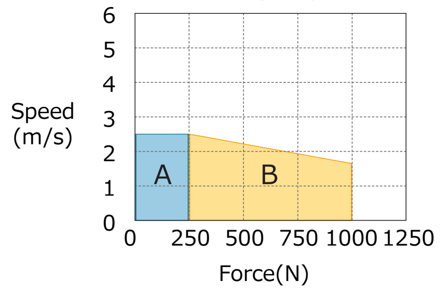
仕様項目	記号	単位	型番				
			JTKL5113B	JTKL5126B	JTKL5139B	JTKL5153B	JTKL5179B
連続推力	F_c	N	125	250	375	500	750
最大推力	F_p	N	500	1000	1500	2000	3000
連続電流	$I_c@T_{max}$	A_{rms}	1.4	2.8	4.1	5.5	8.3
最大電流	I_p	A_{rms}	5.5	11.0	16.5	22.0	33.0
推力定数	K_f	N/A_{rms}	90.9	90.9	90.9	90.9	90.9
電気的時定数	T_e	ms	2.1	2.1	2.1	2.1	2.1
誘起電圧定数	K_e	$V_{rms}/m/s$	52.5	52.5	52.5	52.5	52.5
相間抵抗(25℃)	R_s	Ω	13.1	6.6	4.4	3.3	2.2
相間インダクタンス	L_s	mH	26.9	13.5	9.0	6.8	4.6
モータ定数	K_M	$N/\sqrt{W}$	18.1	25.6	31.4	36.2	44.3
コイル質量	M_c	kg	1.0	2.1	3.1	4.2	6.3
最大速度	V_{max}	m/s	2.5	2.5	2.5	2.5	2.5
ポールピッチ (N to S)	-	mm	33	33	33	33	33
定格出力	P_c	W	312	625	937	1250	1875

A：連続領域
B：反復領域

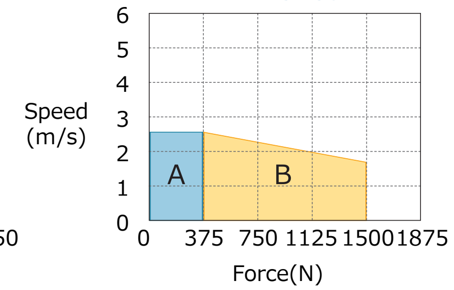
JTKL5113B



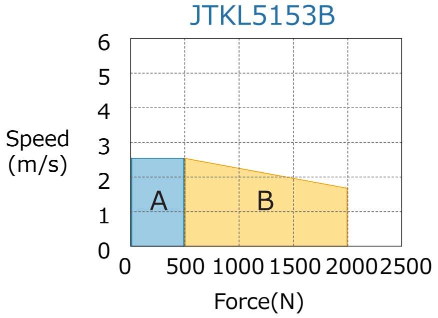
JTKL5126B



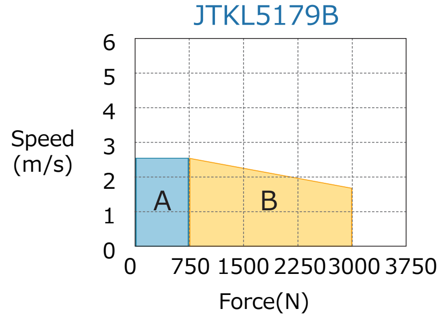
JTKL5139B



JTKL5153B



JTKL5179B



*注意：入力電圧が三相AC220Vの場合です。

外形図

L51B

コイル：JTKL-G51□□B

Unit : mm

Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Mating

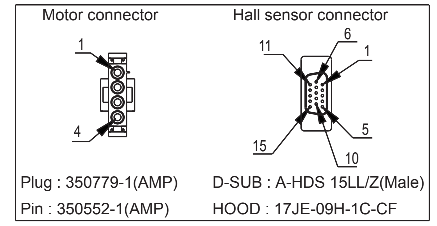
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

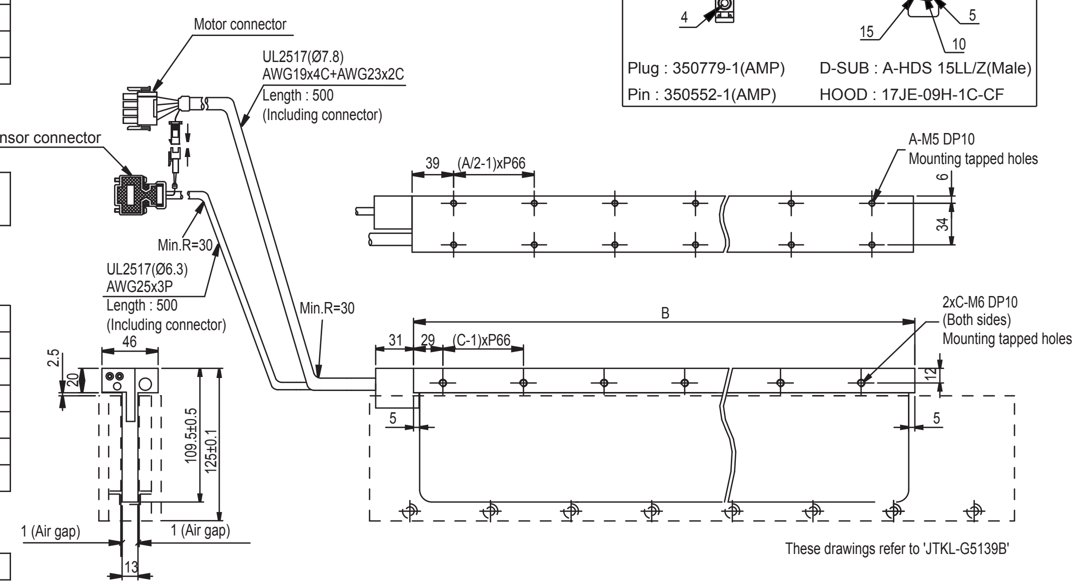
Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

D-SUB : A-HDF 15LL/Z(Female)

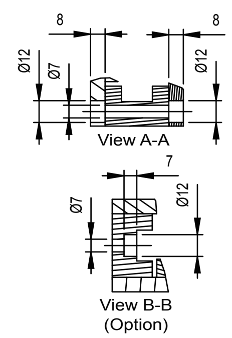


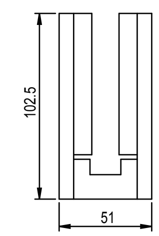


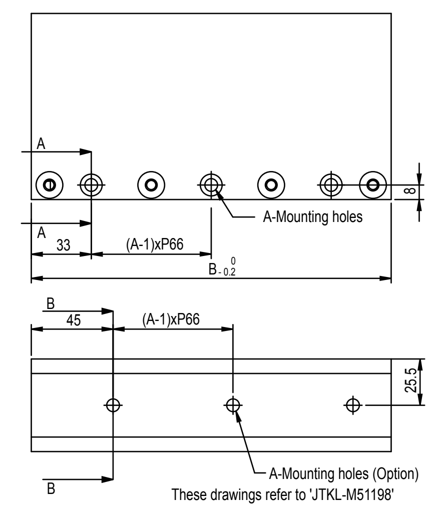
No.	Coil assembly	A	B	C	Weight[kg]	Cable
1	JTKL-G5113B	4	144	2	1.0	UL2517(Ø7.8) AWG19x4C
2	JTKL-G5126B	8	276	4	2.1	UL2517(Ø7.8) AWG19x4C
3	JTKL-G5139B	12	408	6	3.1	UL2517(Ø7.8) AWG19x4C
4	JTKL-G5153B	16	540	8	4.2	UL2517(Ø7.8) AWG19x4C
5	JTKL-G5179B	24	804	12	6.3	UL2517(Ø8.0) AWG17x4C

マグネットプレート：JTKL-M51□□□

Unit : mm







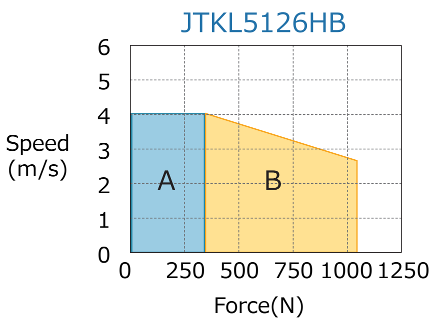
No.	Magnet assembly	A	B	Weight[kg]
1	JTKL-M51198	3	198	5.3
2	JTKL-M51264	4	264	7.1
3	JTKL-M51330	5	330	8.9
4	JTKL-M51528	8	528	14.2

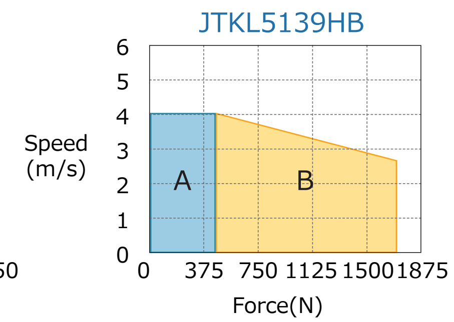
製品仕様

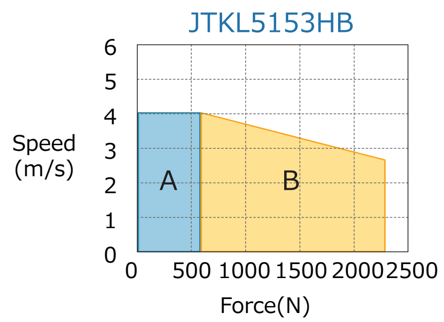
L51HB

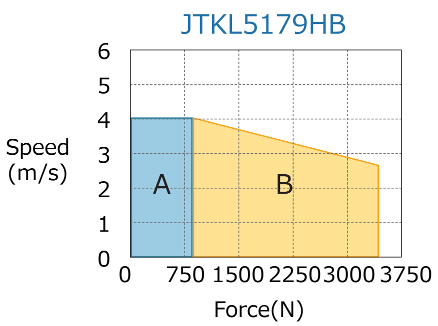
仕様項目	記号	単位	型番			
			JTKL5126HB	JTKL5139HB	JTKL5153HB	JTKL5179HB
連続推力	F_c	N	293	440	586	880
最大推力	F_p	N	1172	1760	2344	3520
連続電流	I_c@T_{max}	A_{rms}	6	9	12	18
最大電流	I_p	A_{rms}	24	36	48	72
推力定数	K_f	N/A_{rms}	49	49	49	49
電気的時定数	T_e	ms	1.8	1.8	1.9	1.9
誘起電圧定数	K_e	V_{rms}/m/s	28.2	28.2	28.2	28.2
相間抵抗(25℃)	R_s	Ω	1.9	1.3	0.9	0.6
相間インダクタンス	L_s	mH	3.4	2.3	1.7	1.2
モータ定数	K_M	N/$\sqrt{W}$	26.1	32.0	37.1	45.8
コイル質量	M_c	kg	2.1	3.2	4.3	6.4
最大速度	V_{max}	m/s	4	4	4	4
ポールピッチ (N to S)	-	mm	33	33	33	33
定格出力	P_c	W	1172	1760	2347	3520

A：連続領域
B：反復領域









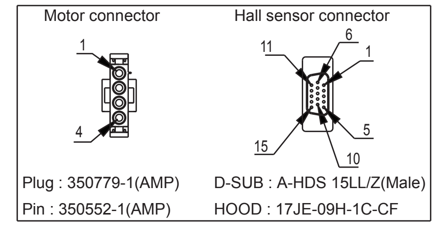
*注意：入力電圧が三相AC220Vの場合です。

外形図

L51HB

コイル：JTKL-G51□□HB

Unit : mm



Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Mating

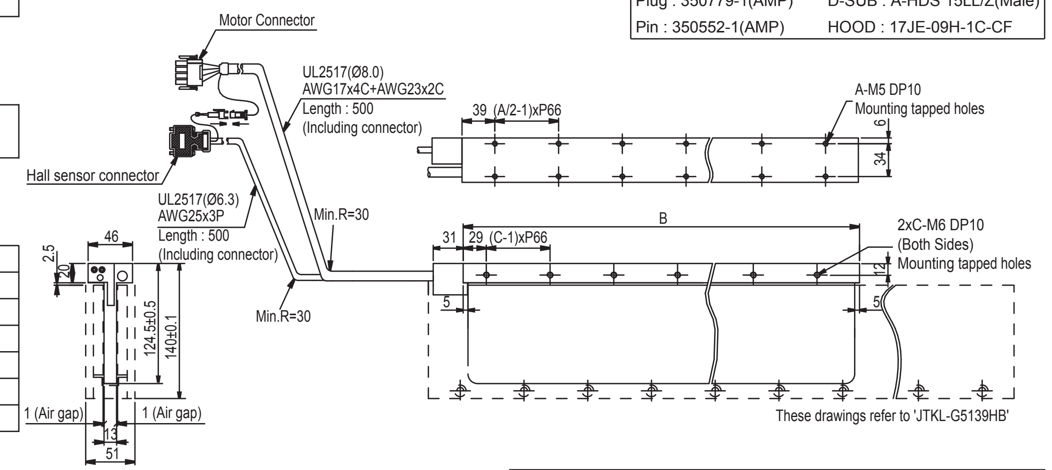
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

Hall sensor terminal connection

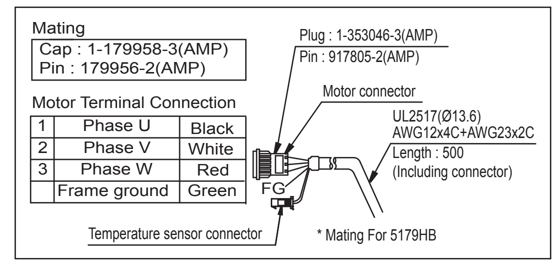
04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

D-SUB : A-HDF 15LL/Z(Female)

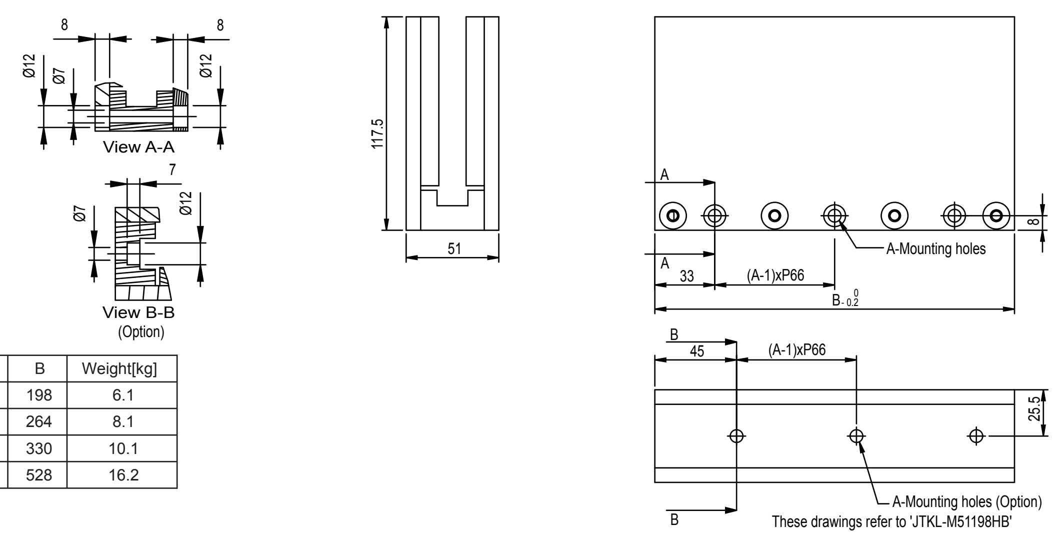


No.	Coil assembly	A	B	C	Weight[kg]	Cable
1	JTKL-G5126HB	8	276	4	2.1	UL2517(Ø8.0) AWG17x4C
2	JTKL-G5139HB	12	408	6	3.2	UL2517(Ø8.0) AWG17x4C
3	JTKL-G5153HB	16	540	8	4.3	UL2517(Ø8.0) AWG17X4C
4	JTKL-G5179HB	24	804	12	6.4	UL2517(Ø13.6) AWG12X4C



マグネットプレート：JTKL-M51□□□HB

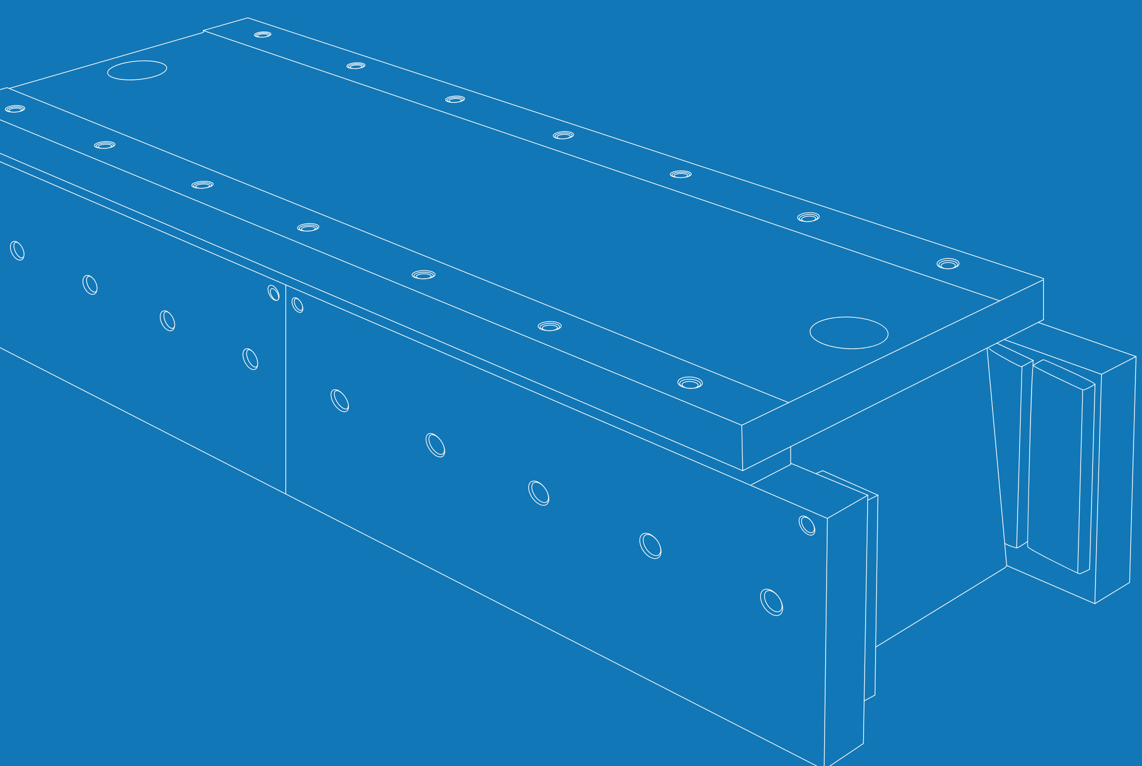
Unit : mm



No.	Magnet assembly	A	B	Weight[kg]
1	JTKL-M51198HB	3	198	6.1
2	JTKL-M51264HB	4	264	8.1
3	JTKL-M51330HB	5	330	10.1
4	JTKL-M51528HB	8	528	16.2

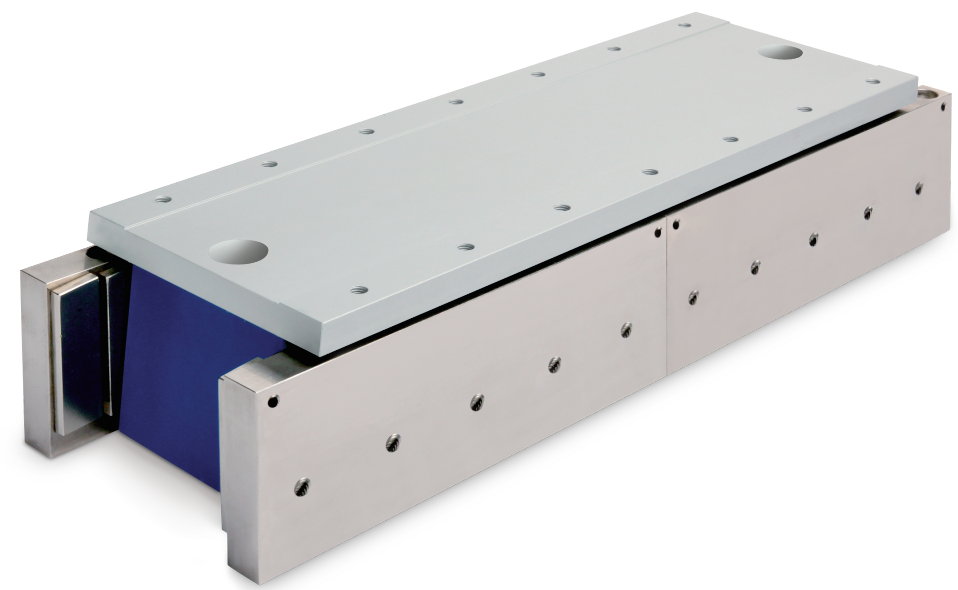
両側形

JUSTEK Linear Motors



共通仕様

絶縁抵抗	10MΩ以上
耐電圧	AC1500V, 15mA, 1分間
動作湿度	20-80% RH (結露や霜がないこと)
動作温度	0 ~ 40℃



JTKW45 シリーズ

JTKW74Z(S) シリーズ

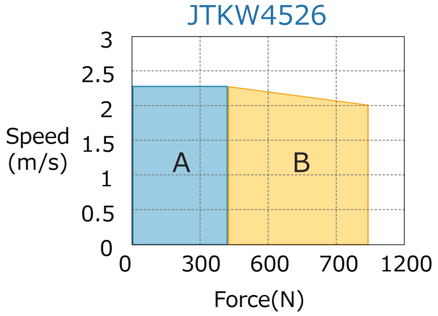
W45

製品仕様

仕様項目	記号	単位	型番 JTKW4526
連続推力	F_c	N	440
最大推力	F_p	N	1000
連続電流	$I_c@T_{max}$	A_{rms}	5.8
最大電流	I_p	A_{rms}	14.2
推力定数	K_f	N/A_{rms}	76
電気的時定数	T_e	ms	7.4
誘起電圧定数	K_e	$V_{rms}/m/s$	43.8
相間抵抗(25℃)	R_s	Ω	2.3
相間インダクタンス	L_s	mH	17
モータ定数	K_M	$N/\sqrt{W}$	36
コイル質量	M_c	kg	5.0
最大速度	V_{max}	m/s	2.3
ポールピッチ (N to S)	-	mm	16
定格出力	P_c	W	1012

A：連続領域
B：反復領域

JTKW4526



*注意：入力電圧が三相AC220Vの場合です。

W45

外形図

コイル：JTKW-G45□□

Unit : mm

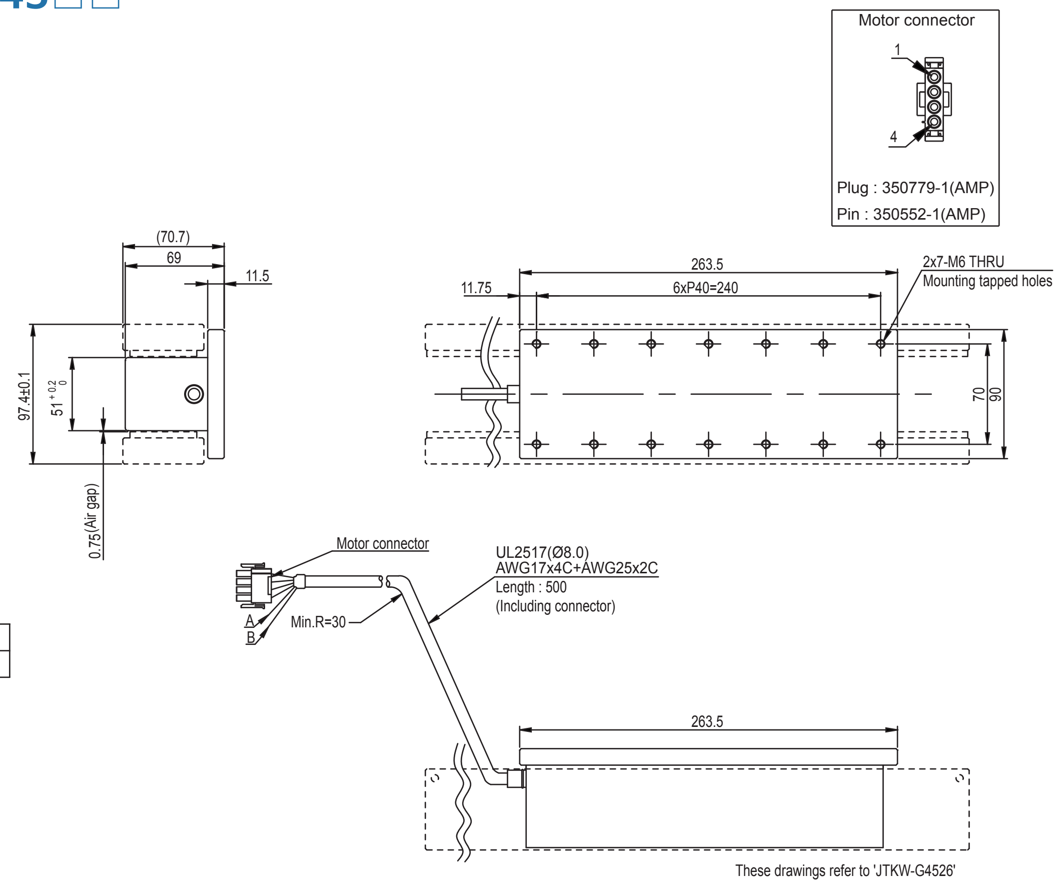
Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green
A	Thermal sensor	Yellow
B	Thermal sensor	Brown

Mating

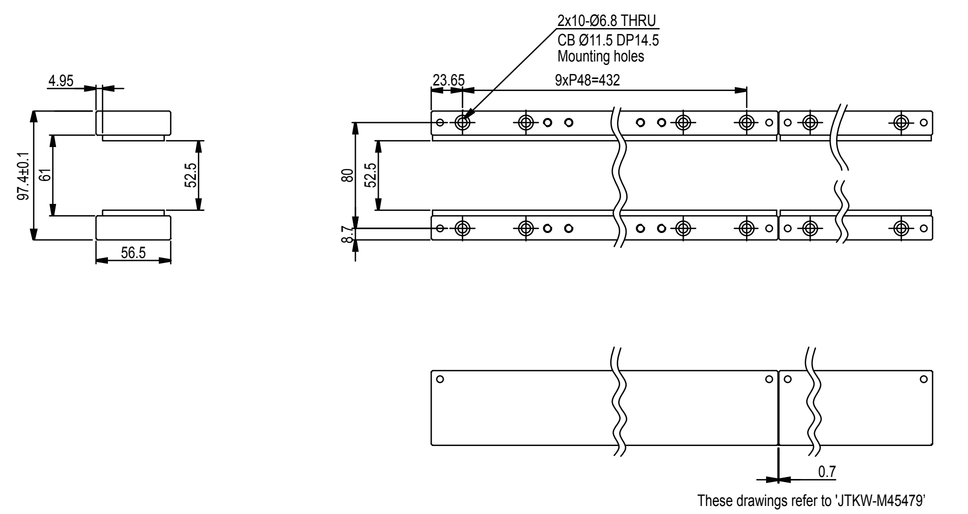
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

No.	Coil assembly	Weight[kg]
1	JTKW-G4526	5.0



マグネットプレート：JTKW-M45□□□

Unit : mm



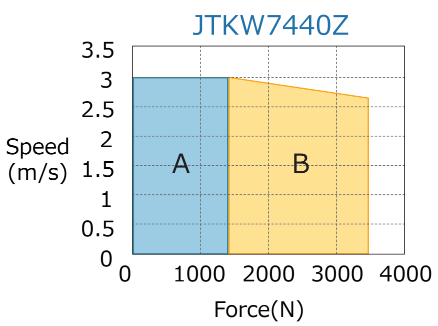
No.	Magnet assembly	Weight[kg]
1	JTKW-M45479	8.3

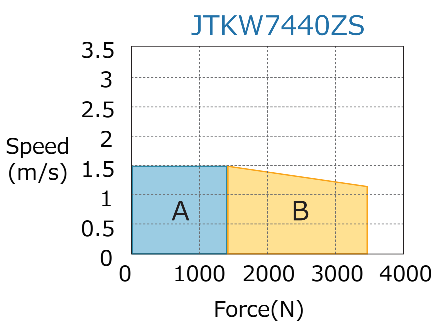
W74Z(S)

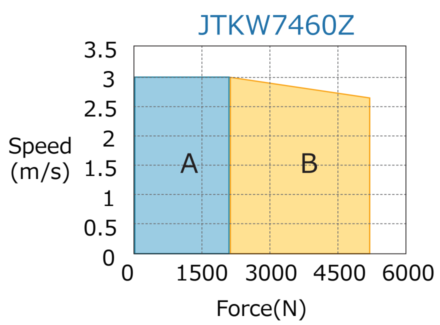
製品仕様

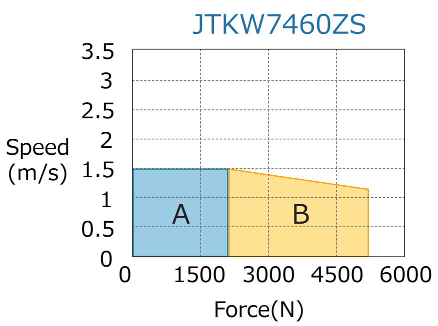
仕様項目	記号	単位	型番			
			JTKW7440Z	JTKW7440ZS	JTKW7460Z	JTKW7460ZS
連続推力	F_c	N	1400	1400	2100	2100
最大推力	F_p	N	3500	3500	5250	5250
連続電流	I_c@T_{max}	A_{rms}	17.6	8.8	26.4	13.2
最大電流	I_p	A_{rms}	44.0	22.0	66.0	33.0
推力定数	K_f	N/A_{rms}	80	161	80	161
電気的時定数	T_e	ms	28.9	28.9	28.9	28.9
誘起電圧定数	K_e	V_{rms}/m/s	46.5	92.9	46.5	92.9
相間抵抗(25℃)	R_s	Ω	0.3	2.3	0.4	1.6
相間インダクタンス	L_s	mH	16.5	66.0	11.0	44.0
モータ定数	K_M	$N/\sqrt{W}$	76.6	76.6	93.9	93.9
コイル質量	M_c	kg	24.4	24.4	36.0	36.0
最大速度	V_{max}	m/s	3.0	1.5	3.0	1.5
ポールピッチ (N to S)	-	mm	24	24	24	24
定格出力	P_c	W	4200	2100	6300	3150

A：連続領域
B：反復領域









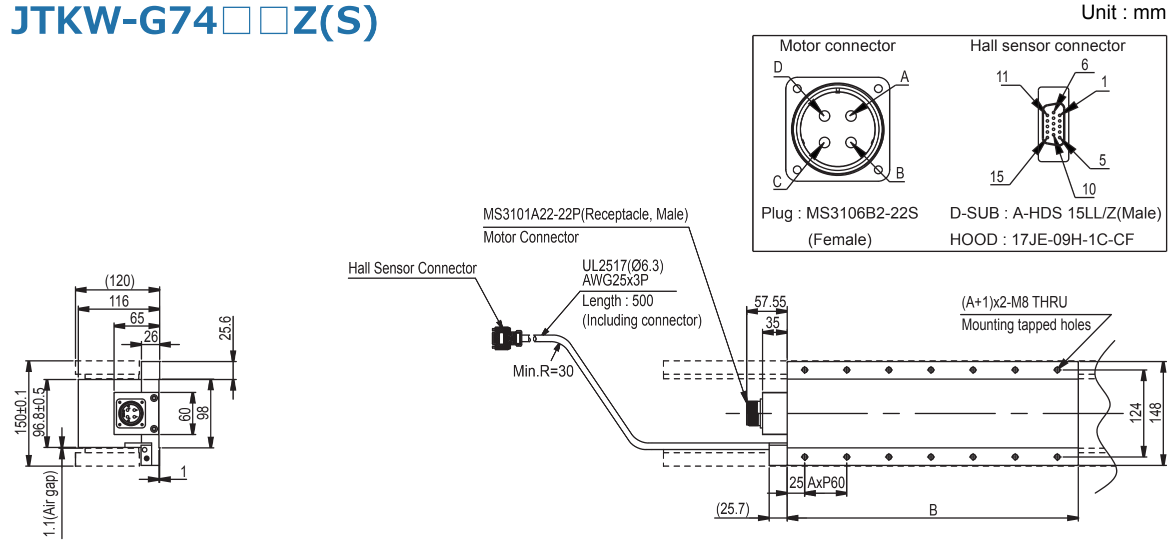
*注意：入力電圧が三相AC220Vの場合です。

W74Z(S)

外形図

コイル：JTKW-G74□□Z(S)

Unit : mm



Motor terminal connection

A	Phase U	Black
B	Phase V	White
C	Phase W	Red
D	Frame ground	Green

Mating

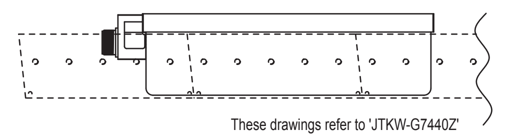
L-Type plug : MS3108B22-22S(Female)
Straight plug : MS3106B22-22S(Female)
Cable clamp : MS3057-12A

Hall sensor terminal connection

01	VCC-HS	Red
02	Hall A	Orange
03	Hall B	Yellow
04	Hall C	Green
05	GND-HS	Blue

Mating

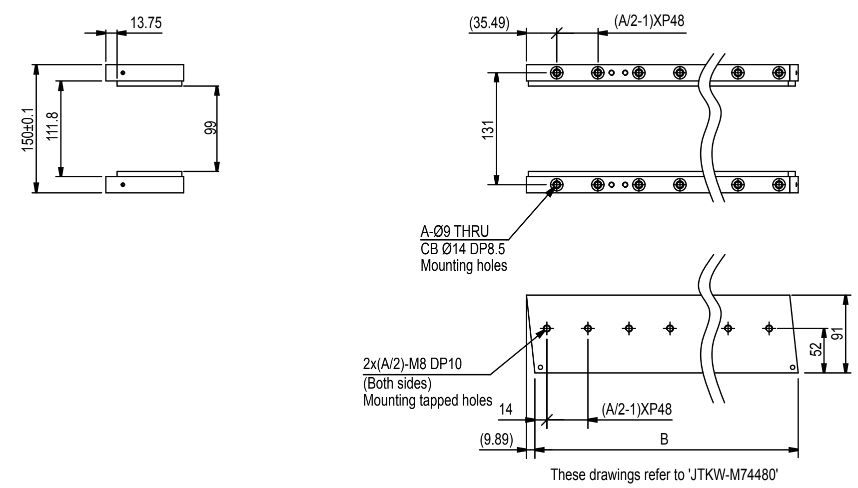
Socket connector : 17JE-13090-02(D8C)(Female)
Stud : 17L-002C or 17L-002C1



No.	Coil assembly	A	B	Weight[kg]
1	JTKW-G7440Z(S)	6	415	24.4
2	JTKW-G7460Z(S)	9	607	36.0

マグネットプレート：JTKW-M74□□□

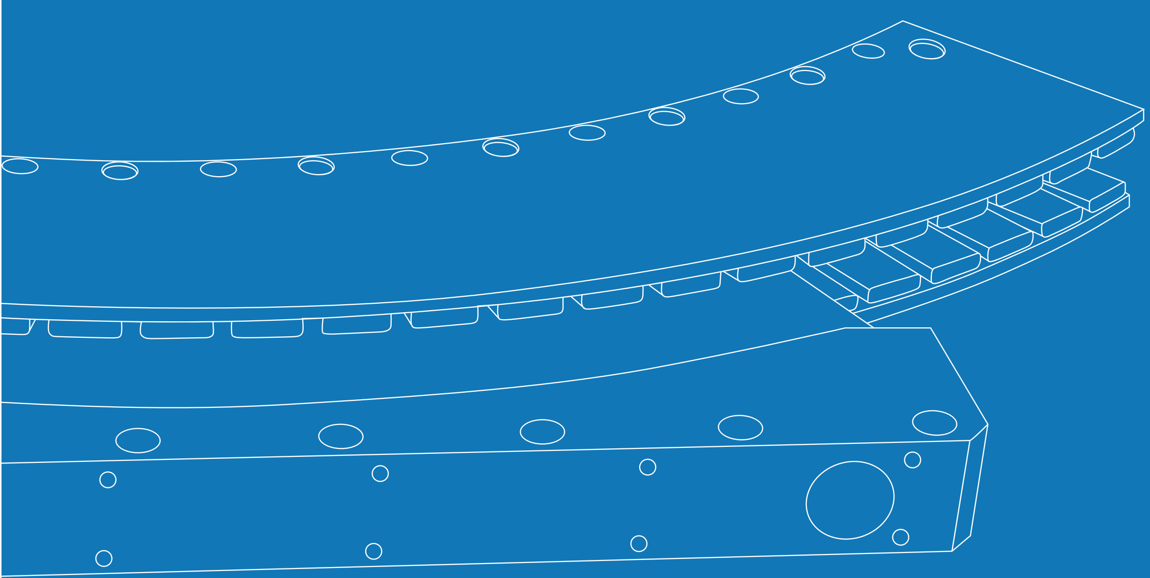
Unit : mm



No.	Magnet assembly	A	B	Weight[kg]
1	JTKW-M74240	10	240	14.2
2	JTKW-M74480	20	480	28.4

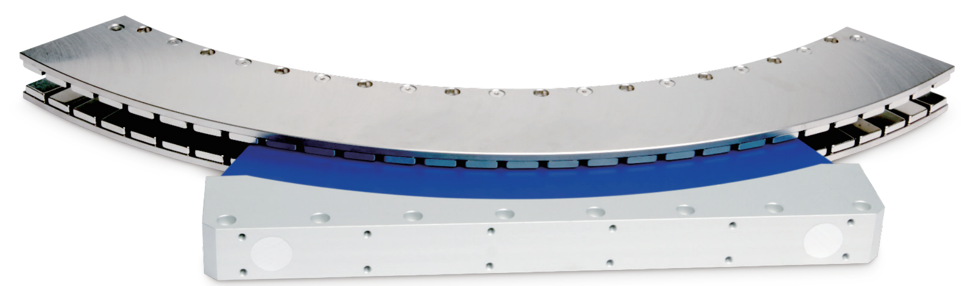
アーク形

JUSTEK Linear Motors



共通仕様

絶縁抵抗	10MΩ以上
耐電圧	AC1500V, 15mA, 1分間
動作湿度	20-80% RH (結露や霜がないこと)
動作温度	0 ~ 40℃



JTKA30A シリーズ

JTKA42 シリーズ

JTKA50 シリーズ

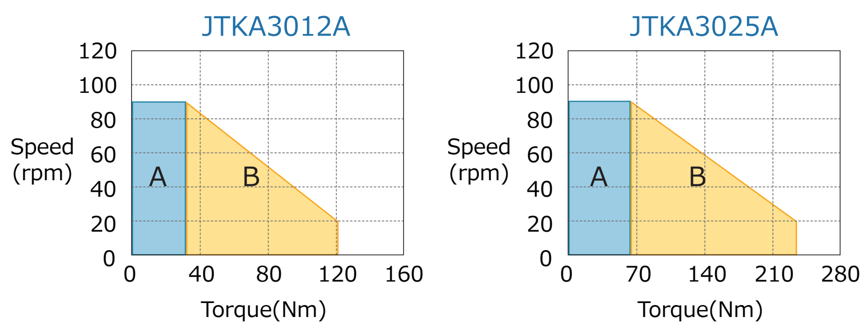
JTKA61 シリーズ

JTKA65 シリーズ

JTKA76 シリーズ

仕様項目	記号	単位	型番 JTKA3012A	型番 JTKA3025A
連続接線推力	F_C	N	98.8	197.6
最大接線推力	F_p	N	395.2	790.4
連続トルク	T_c	Nm	30	60
最大トルク	T_p	Nm	120	240
連続電流	I_c@T_{max}	A_{rms}	1.5	3.0
最大電流	I_p	A_{rms}	6	12
推力定数	K_f	N/A_{rms}	65.9	65.9
トルク定数	K_t	Nm/A_{rms}	20.1	20.1
電気的時定数	T_e	ms	1.1	1.1
誘起電圧定数	K_e	V_{rms}/m/s	38.1	38.1
相間抵抗(25℃)	R_s	Ω	11.0	5.5
相間インダクタンス	L_s	mH	12.2	6.1
モータ定数	K_M	N/$\sqrt{W}$	14.3	20.3
コイル質量	M_C	kg	1.4	2.8
作業半径	-	mm	305.6	305.6
最大回転速度	V_{max}	rpm	90	90
ポールピッチ (N to S)	-	Deg	4.5	4.5
定格出力	P_C	W	297	593

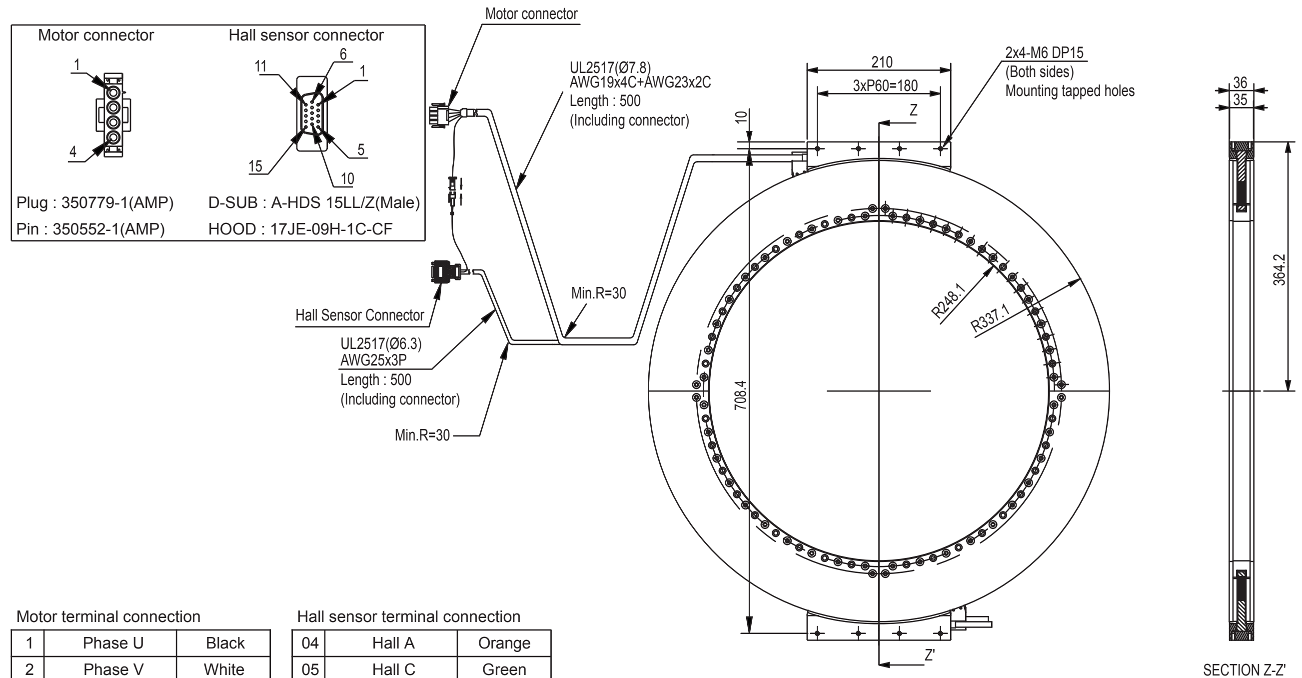
A：連続領域
B：反復領域



*注意：入力電圧が三相AC220Vの場合です。

コイル：JTKA-G30□□A

Unit : mm

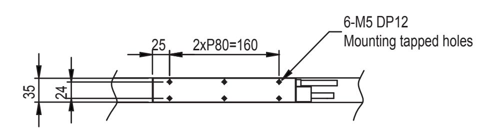


Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue



Mating

Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

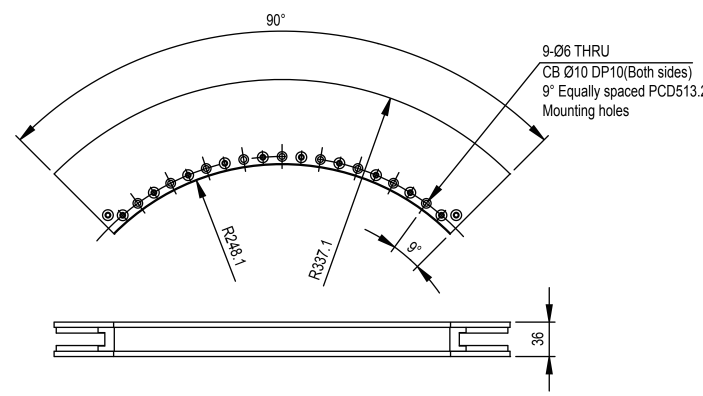
Mating

D-SUB : A-HDF 15LL/Z(Female)

マグネットプレート：JTKA-M30A□□

Unit : mm

No.	Magnet assembly	Weight[kg]
1	JTKA-M30A90	7.1

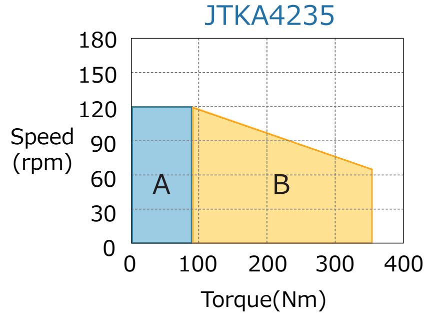


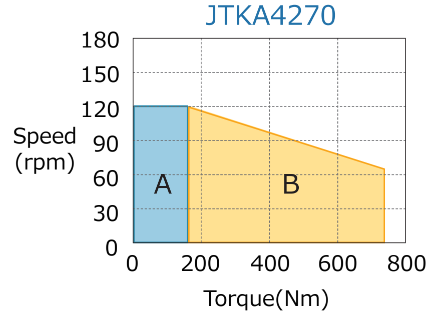
A42

製品仕様

仕様項目	記号	単位	型番 JTKA4235	型番 JTKA4270
連続接線推力	F_c	N	208	416
最大接線推力	F_p	N	832	1664
連続トルク	T_c	Nm	88	176
最大トルク	T_p	Nm	352	704
連続電流	$I_c@T_{max}$	A_{rms}	6	12
最大電流	I_p	A_{rms}	24	48
推力定数	K_f	N/A_{rms}	34.7	34.7
トルク定数	K_t	Nm/A_{rms}	14.8	14.8
電気的時定数	T_e	ms	1	1
誘起電圧定数	K_e	$V_{rms}/m/s$	20	20
相間抵抗(25℃)	R_s	Ω	1.7	0.9
相間インダクタンス	L_s	mH	1.7	0.9
モータ定数	K_M	$N/\sqrt{W}$	19.5	27.5
コイル質量	M_C	kg	3.1	6.2
作業半径	-	mm	427.8	427.8
最大回転速度	V_{max}	rpm	120	120
ポールピッチ (N to S)	-	Deg	3.21	3.21
定格出力	P_c	W	1040	2080

A：連続領域
B：反復領域





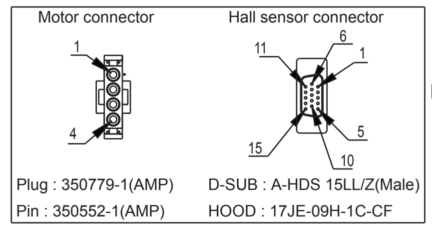
*注意：入力電圧が三相AC220Vの場合です。

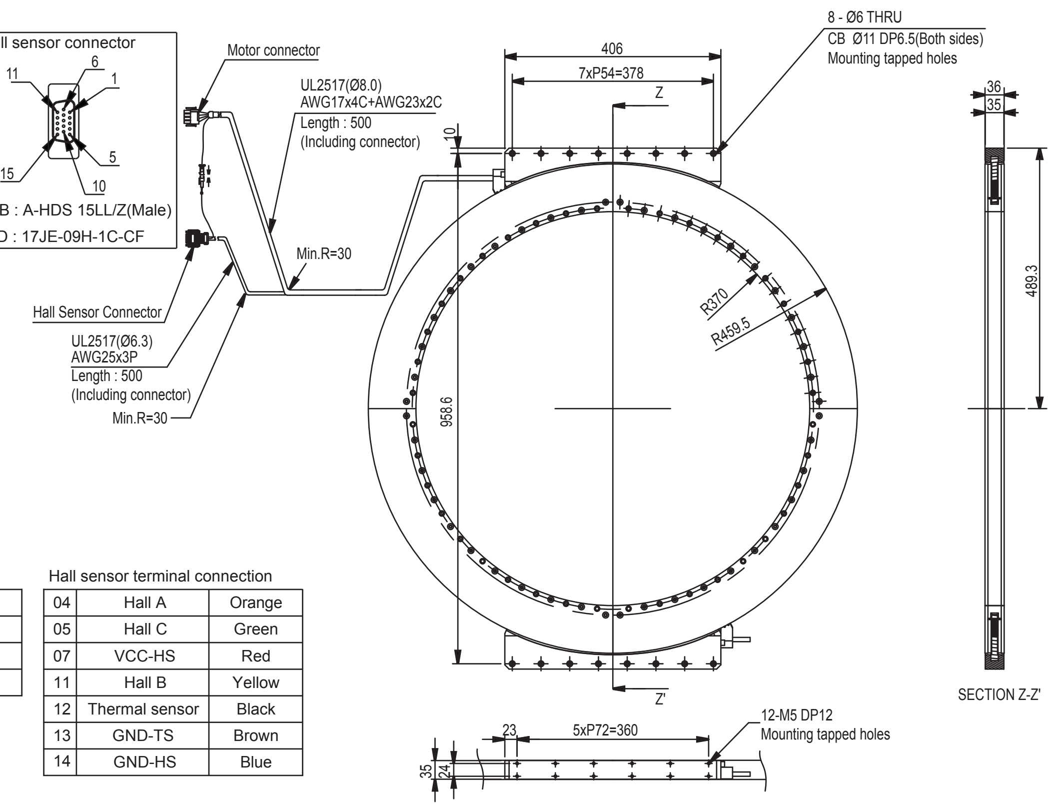
A42

外形図

コイル：JTKA-G42□□

Unit : mm





Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

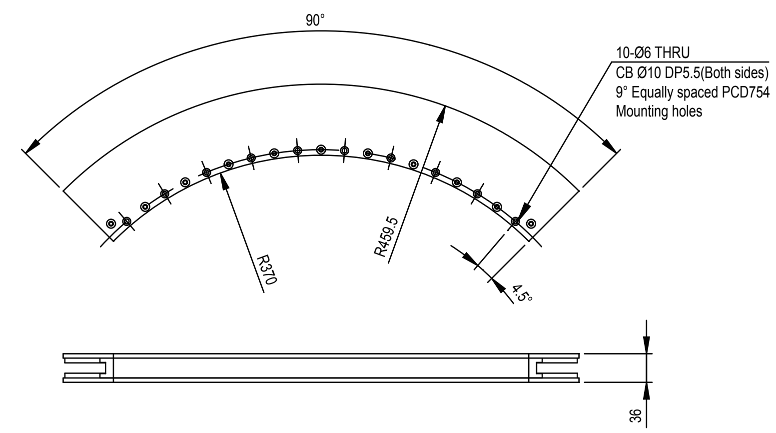
Mating

D-SUB : A-HDF 15LL/Z(Female)

マグネットプレート：JTKA-M42A□□

Unit : mm

No.	Magnet assembly	Weight[kg]
1	JTKA-M42A90	10.3

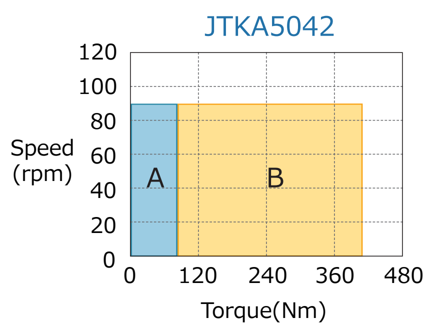


製品仕様

A50

仕様項目	記号	単位	型番 JTKA5042
連続接線推力	Fc	N	208
最大接線推力	Fp	N	832
連続トルク	Tc	Nm	104
最大トルク	Tp	Nm	416
連続電流	Ic@Tmax	Arms	6
最大電流	Ip	Arms	24
推力定数	Kf	N/Arms	34.7
トルク定数	Kt	Nm/Arms	17.5
電気的時定数	Te	ms	1
誘起電圧定数	Ke	Vrms/m/s	20
相間抵抗(25℃)	Rs	Ω	1.7
相間インダクタンス	Ls	mH	1.7
モータ定数	KM	N/√W	19.5
コイル質量	Mc	kg	2.9
作業半径	-	mm	504.2
最大回転速度	Vmax	rpm	90
ポールピッチ (N to S)	-	Deg	2.73
定格出力	Pc	W	1040

A：連続領域
B：反復領域



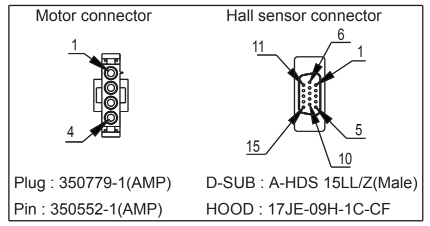
*注意：入力電圧が三相AC220Vの場合です。

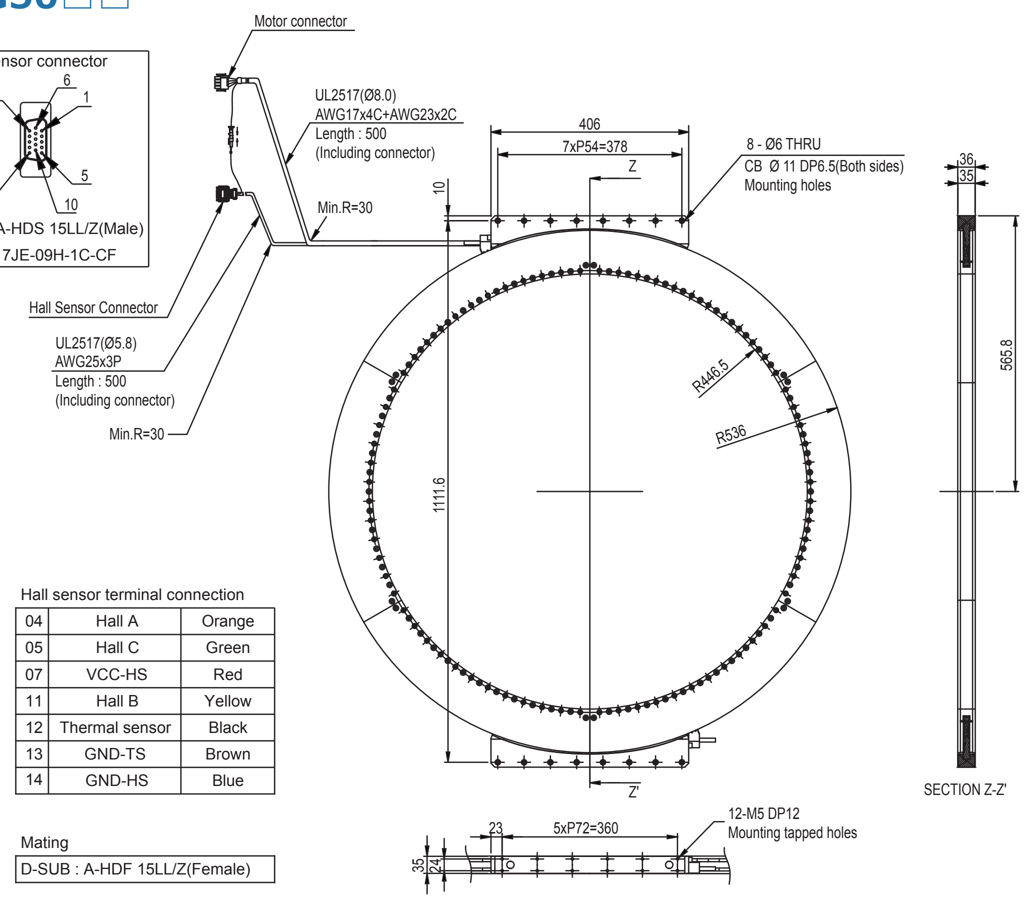
外形図

A50

コイル：JTKA-G50□□

Unit : mm





Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

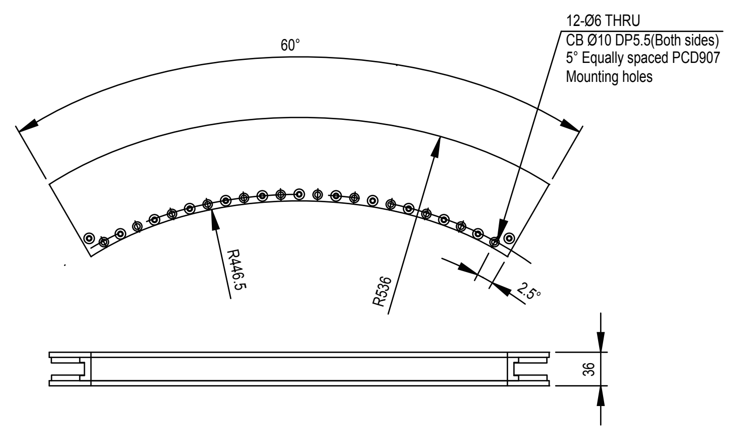
Mating

D-SUB : A-HDF 15LL/Z(Female)

マグネットプレート：JTKA-M50A□□

Unit : mm

No.	Magnet assembly	Weight[kg]
1	JTKA-M50A60	8.0

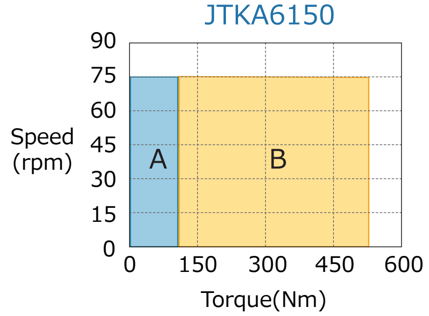


製品仕様

A61

仕様項目	記号	単位	型番 JTKA6150
連続接線推力	F_c	N	208
最大接線推力	F_p	N	832
連続トルク	T_c	Nm	127
最大トルク	T_p	Nm	508
連続電流	I_c@T_{max}	A_{rms}	6
最大電流	I_p	A_{rms}	24
推力定数	K_f	N/A_{rms}	34.7
トルク定数	K_t	Nm/A_{rms}	21.2
電気的時定数	T_e	ms	1
誘起電圧定数	K_e	V_{rms}/m/s	20
相間抵抗(25℃)	R_s	Ω	1.7
相間インダクタンス	L_s	mH	1.7
モータ定数	K_M	$N/\sqrt{W}$	19.5
コイル質量	M_C	kg	2.8
作業半径	-	mm	611.1
最大回転速度	V_{max}	rpm	75
ポールピッチ (N to S)	-	Deg	2.25
定格出力	P_c	W	1040

A：連続領域
B：反復領域



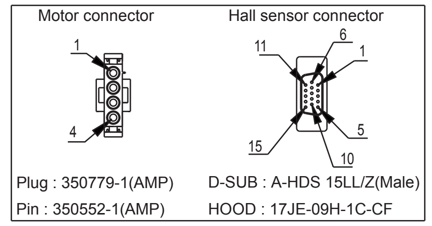
*注意：入力電圧が三相AC220Vの場合です。

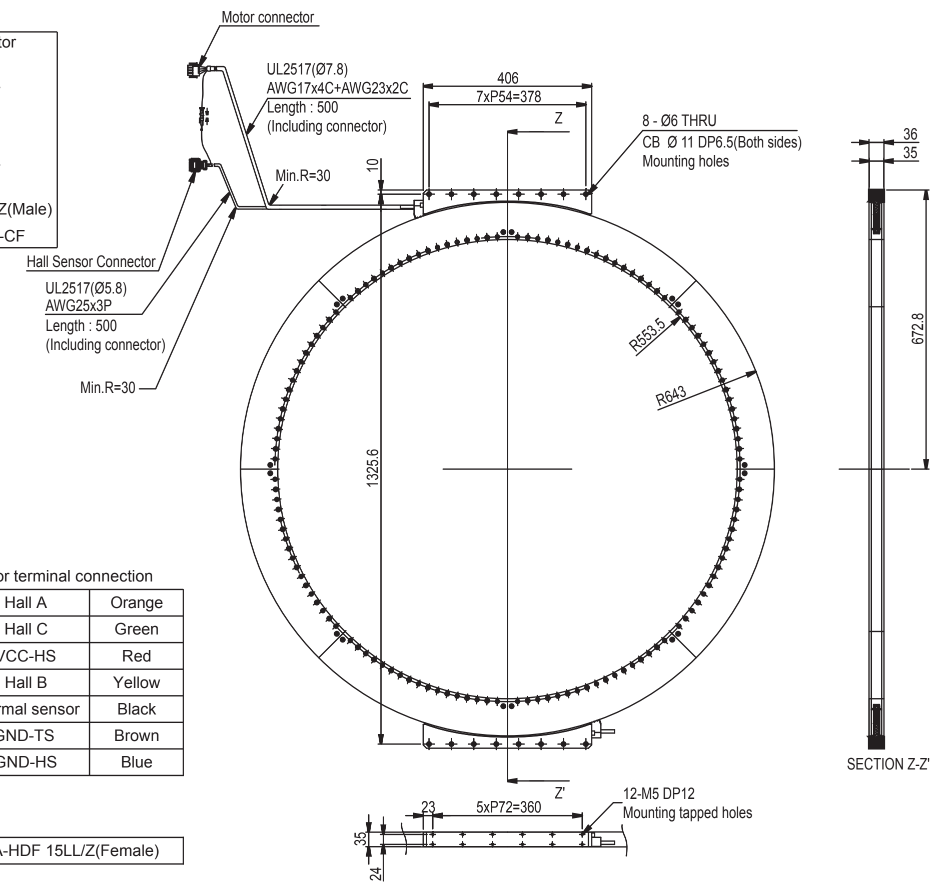
外形図

A61

コイル：JTKA-G61□□

Unit : mm





Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating

Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

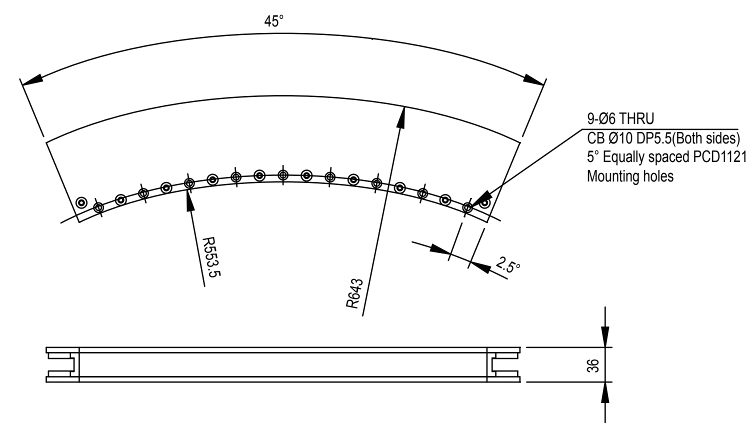
Mating

D-SUB : A-HDF 15LL/Z(Female)

マグネットプレート：JTKA-M61A□□

Unit : mm

No.	Magnet assembly	Weight[kg]
1	JTKA-M61A45	7.4

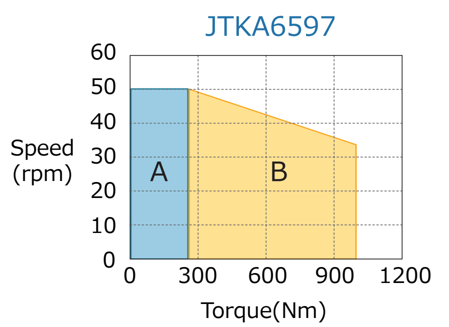


製品仕様

A65

仕様項目	記号	単位	型番 JTKA6597
連続接線推力	F_c	N	375
最大接線推力	F_p	N	1500
連続トルク	T_c	Nm	244
最大トルク	T_p	Nm	976
連続電流	I_c@T_{max}	A_{rms}	6
最大電流	I_p	A_{rms}	24
推力定数	K_f	N/A_{rms}	62.5
トルク定数	K_t	Nm/A_{rms}	40.7
電気的時定数	T_e	ms	1.8
誘起電圧定数	K_e	V_{rms}/m/s	36.1
相間抵抗(25℃)	R_s	Ω	2.3
相間インダクタンス	L_s	mH	4.2
モータ定数	K_M	N/$\sqrt{W}$	29.7
コイル質量	M_c	kg	4.1
作業半径	-	mm	651.3
最大回転速度	V_{max}	rpm	50
ポールピッチ (N to S)	-	Deg	2.9
定格出力	P_c	W	1313

A：連続領域
B：反復領域



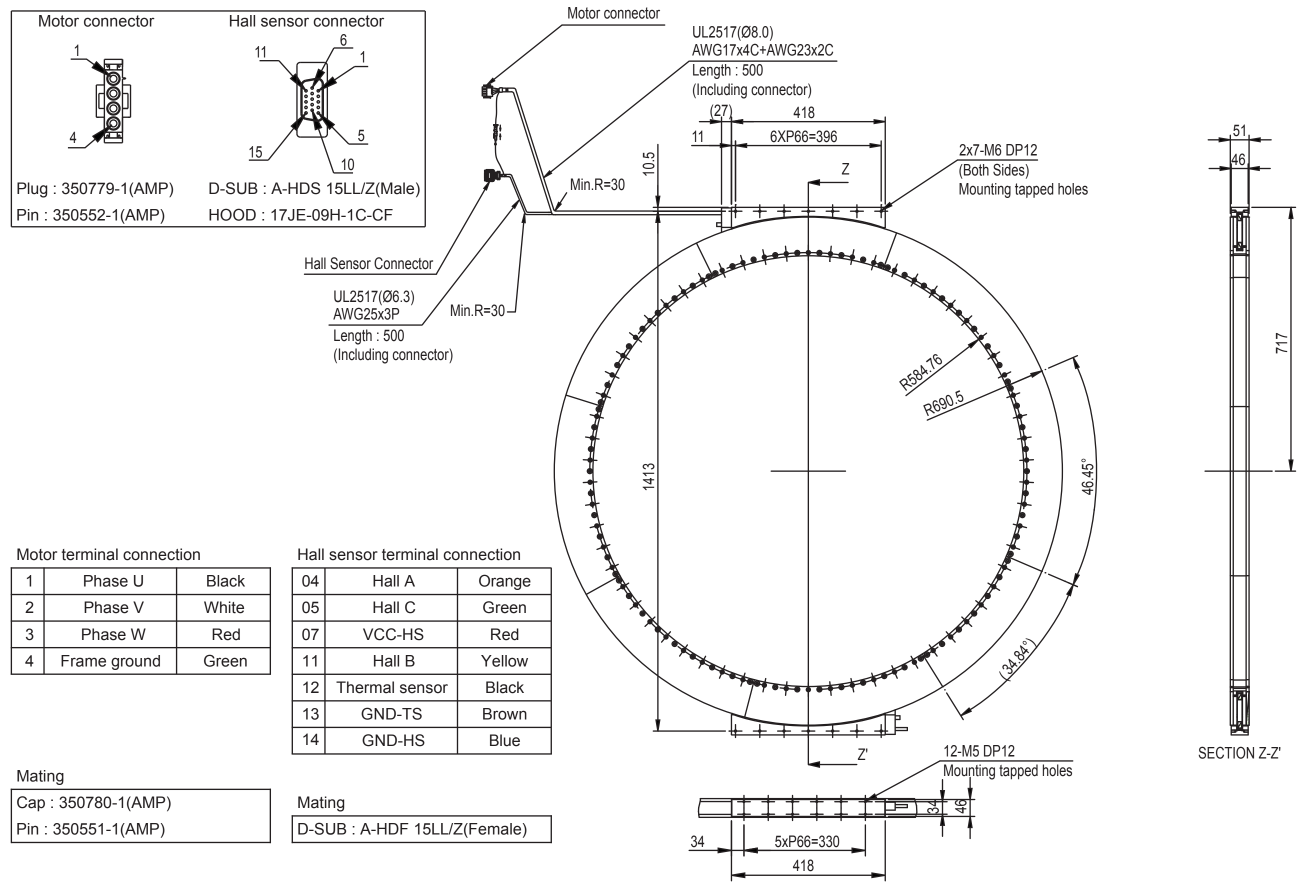
*注意：入力電圧が三相AC220Vの場合です。

外形図

A65

コイル：JTKA-G65□□

Unit : mm



Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

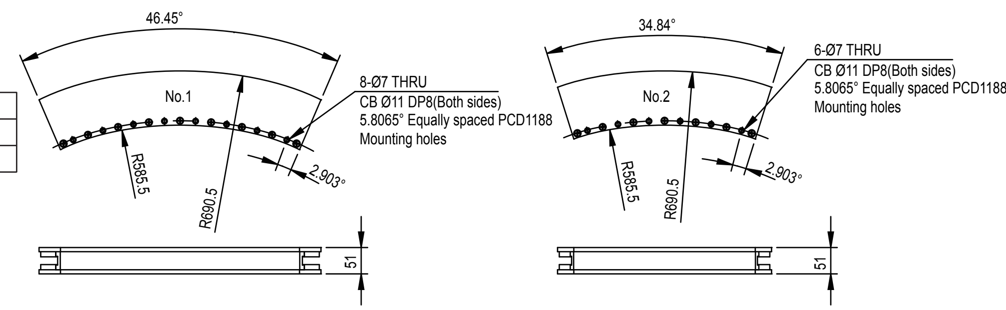
Mating
D-SUB : A-HDF 15LL/Z(Female)

マグネットプレート：JTKA-M65A□□

Unit : mm

No.	Magnet assembly	Weight[kg]
1	JTKA-M65A46	14.1
2	JTKA-M65A35	10.6

No.1 * 7 sets + No.2 * 1 set = 360°

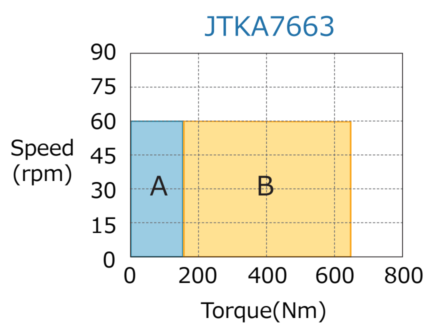


製品仕様

A76

仕様項目	記号	単位	型番 JTKA7663
連続接線推力	F_c	N	208
最大接線推力	F_p	N	832
連続トルク	T_c	Nm	158
最大トルク	T_p	Nm	632
連続電流	I_c@T_{max}	A_{rms}	6
最大電流	I_p	A_{rms}	24
推力定数	K_f	N/A_{rms}	34.7
トルク定数	K_t	Nm/A_{rms}	26.5
電気的時定数	T_e	ms	1
誘起電圧定数	K_e	V_{rms}/m/s	20
相間抵抗(25℃)	R_s	Ω	1.7
相間インダクタンス	L_s	mH	1.7
モータ定数	K_M	N/$\sqrt{W}$	19.5
コイル質量	M_C	kg	2.3
作業半径	-	mm	763.9
最大回転速度	V_{max}	rpm	60
ポールピッチ (N to S)	-	Deg	1.8
定格出力	P_c	W	1040

A：連続領域
B：反復領域



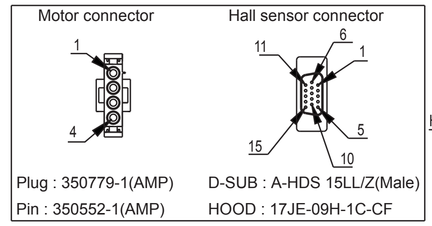
*注意：入力電圧が三相AC220Vの場合です。

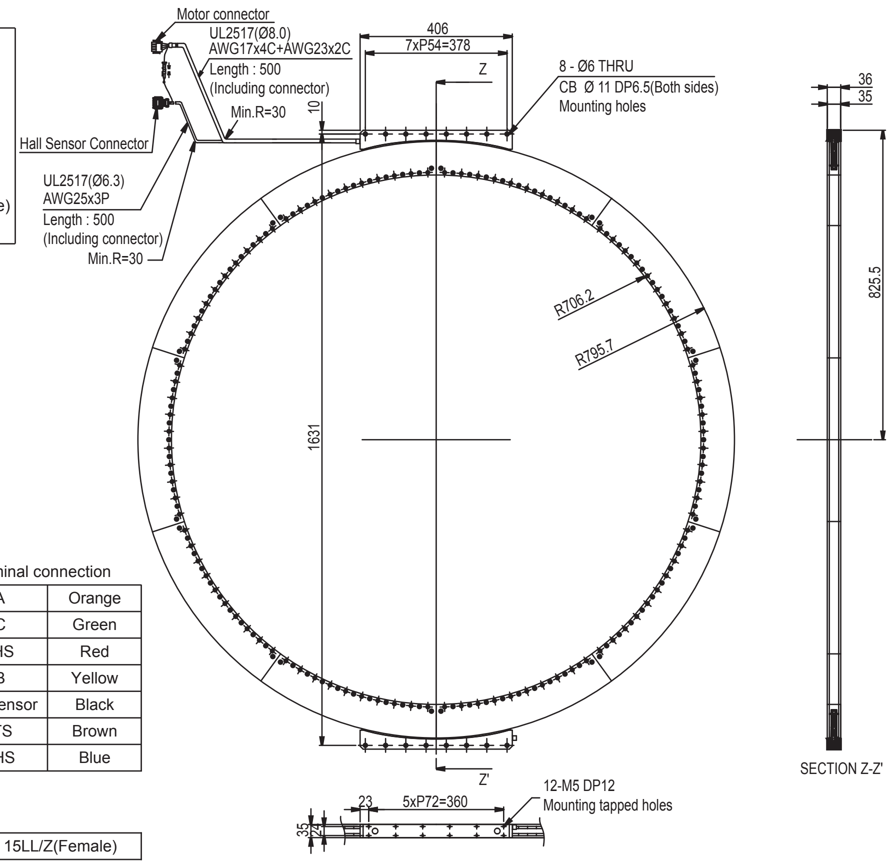
外形図

A76

コイル：JTKA-G76□□

Unit : mm





Motor terminal connection

1	Phase U	Black
2	Phase V	White
3	Phase W	Red
4	Frame ground	Green

Hall sensor terminal connection

04	Hall A	Orange
05	Hall C	Green
07	VCC-HS	Red
11	Hall B	Yellow
12	Thermal sensor	Black
13	GND-TS	Brown
14	GND-HS	Blue

Mating
Cap : 350780-1(AMP)
Pin : 350551-1(AMP)

Mating
D-SUB : A-HDF 15LL/Z(Female)

マグネットプレート：JTKA-M76A□□

Unit : mm

No.	Magnet assembly	Weight[kg]
1	JTKA-M76A36	7.4