

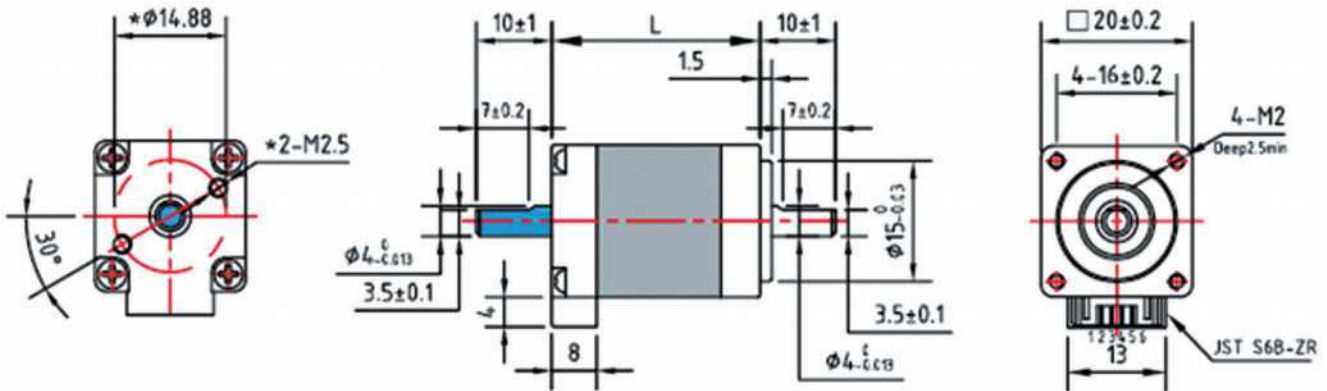
2-Phase Stepping Motor Bi-Polar Type (NEMA 8 20mm · 1.8°)



MOTOR SPECIFICATIONS

Model	Current	Resistance	Inductance	Holding torque		Inertia	Length	Weight	
	A	$\Omega \pm 10\%$	mH $\pm 20\%$	N.m	OZ.in	g/cm ²	mm Max	Kg	Lbs
SD20H228-0604	0.6	6.5	2.2	0.02	2.83	1.6	28	0.04	0.09
SD20H240-0604	0.6	10.6	4.3	0.036	5.1	2.9	40	0.06	0.13
SD20H240-0804	0.8	6.5	2.5	0.036	5.1	2.9	40	0.06	0.13

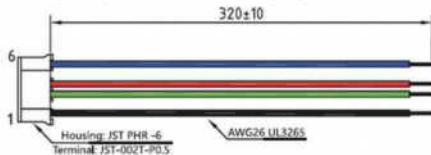
DIMENSIONS (UNIT:MM)



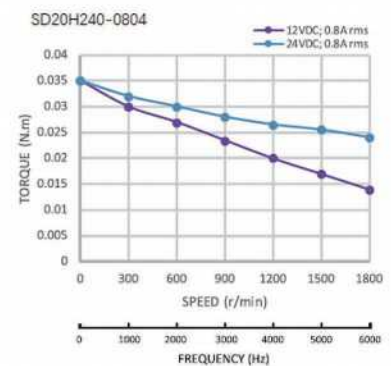
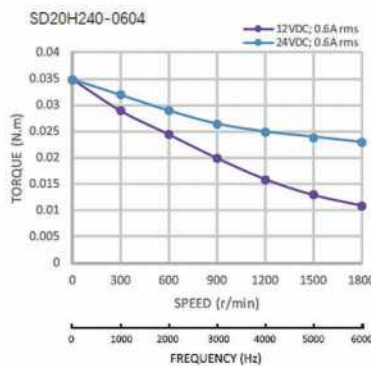
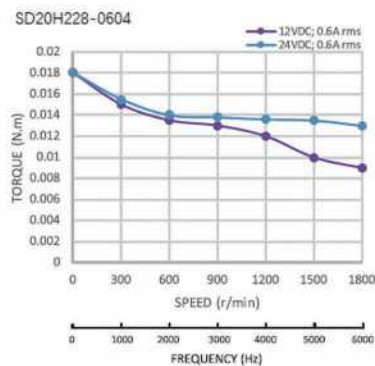
This outline shows a dual shaft motor.

The single-shaft motor does not have the blue part shaft and * mark hole dimensions

Connector with leads



TORQUE-FREQUENCY CURVE



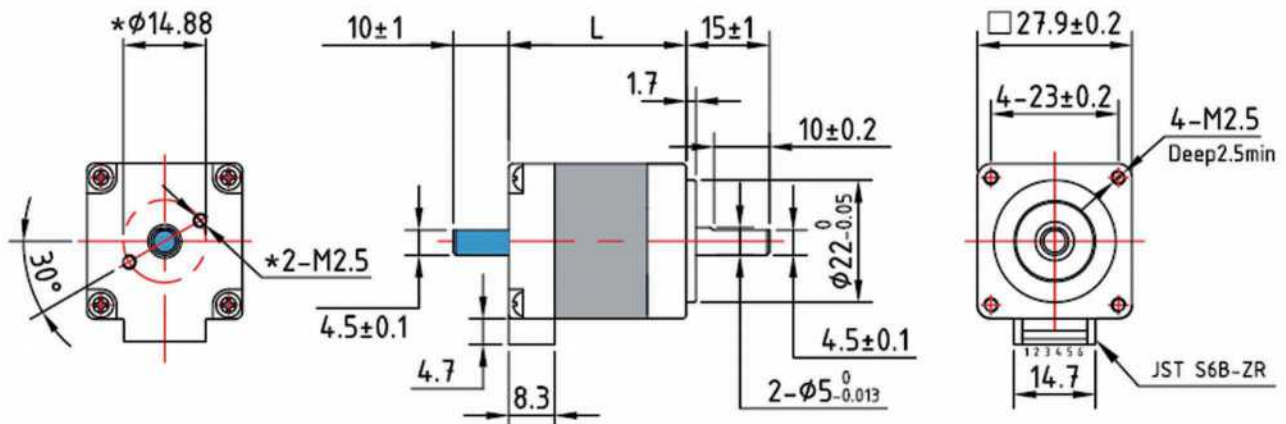
2-Phase Stepping Motor Bi-Polar Type (NEMA 11 28mm · 1.8°)



MOTOR SPECIFICATIONS

Model	Current	Resistance	Inductance	Holding torque		Inertia	Length	Weight	
	A	$\Omega \pm 10\%$	mH $\pm 20\%$	N.m	OZ.in	g/cm ²	mm Max	Kg	Lbs
SD28H232-0504	0.5	20	14	0.08	5.1	9	32	0.1	0.22
SD28H232-1004	1	5.7	3.5	0.08	5.1	9	32	0.1	0.22
SD28H245-1004	1	8.5	6.5	0.12	16.99	12	45	0.15	0.22
SD28H245-1504	1.5	3	3	0.12	16.99	12	45	0.15	0.33
SD28H251-1004	1	9.9	6.7	0.14	19.83	18	51	0.2	0.44
SD28H251-1504	1.5	3.5	3.1	0.14	19.83	18	51	0.2	0.44

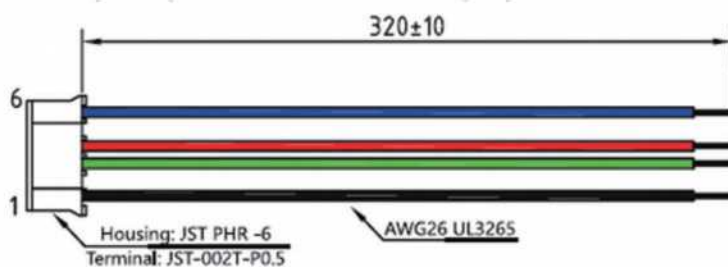
DIMENSION (UNIT:MM)



This outline shows a dual shaft motor.

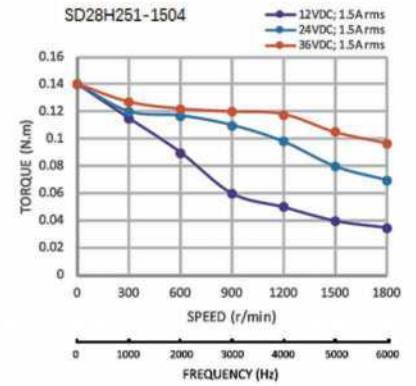
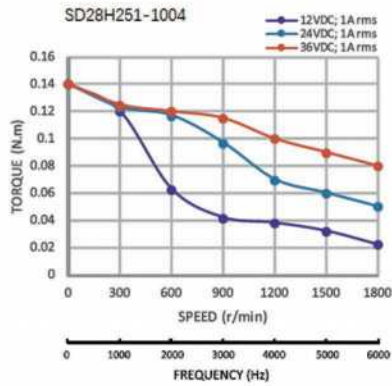
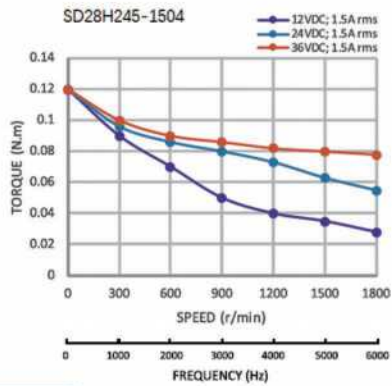
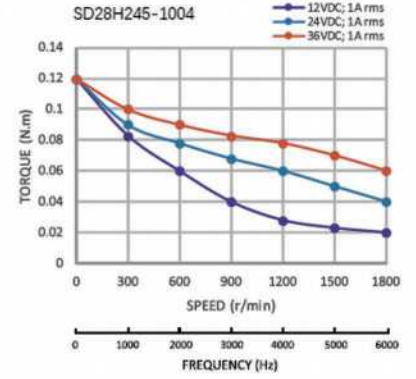
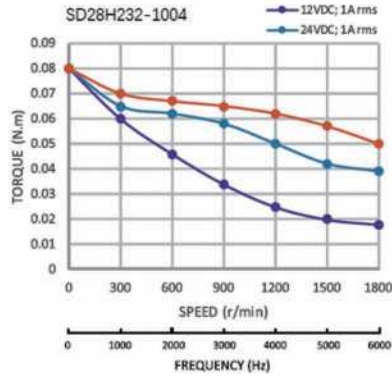
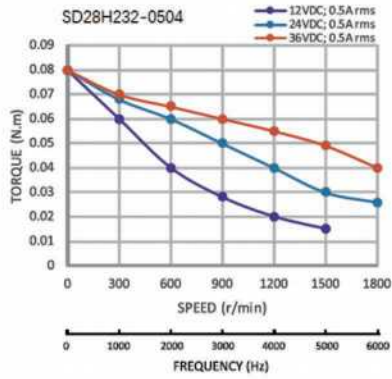
The single-shaft motor does not have the blue part shaft and * mark hole dimensions

Connector with leads



2-Phase Stepping Motor Bi-Polar Type (NEMA 11 28mm · 1.8°)

TORQUE-FREQUENCY CURVE



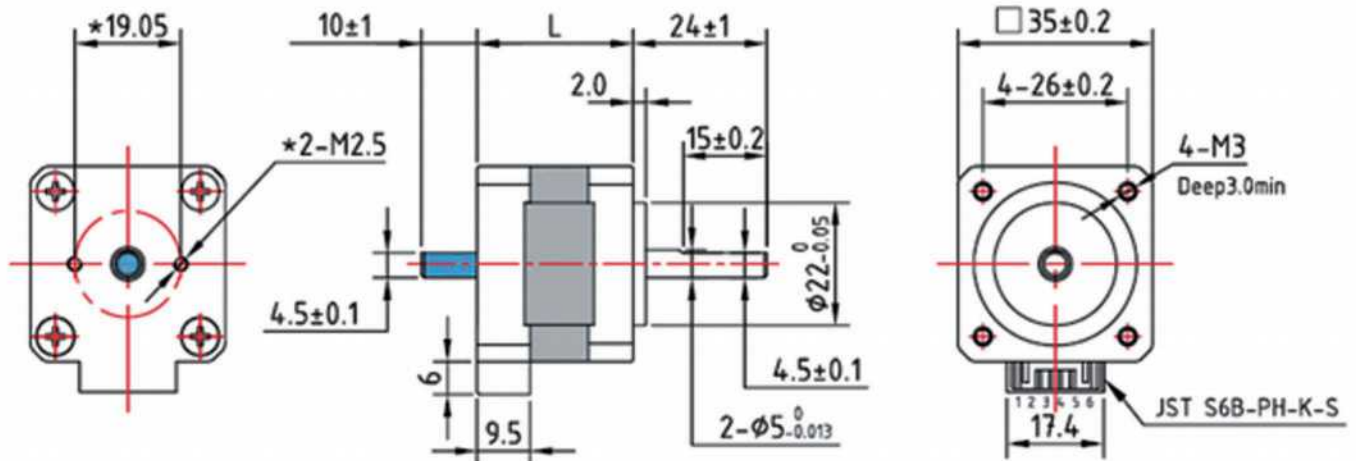
2-Phase Stepping Motor Bi-Polar Type (NEMA 14 35mm · 1.8°)



MOTOR SPECIFICATIONS

Model	Current	Resistance	Inductance	Holding torque		Inertia	Length	Weight	
	A	$\Omega \pm 10\%$	mH $\pm 20\%$	N.m	OZ.in	g/cm ²	mm Max	Kg	Lbs
SD35H226-1004	1	3.1	2.2	0.07	9.91	12	26	0.15	0.33
SD35H226-1504	1.5	1.4	0.9	0.07	9.91	12	26	0.15	0.33
SD35H236-1004	1	4.6	5	0.18	25.49	20	36.5	0.21	0.46
SD35H236-1504	1.5	2.1	2.1	0.18	25.49	20	36.5	0.21	0.46
SD35H253-1504	1.5	3.25	4.1	0.31	43.9	35	53	0.24	0.53
SD35H253-2004	2	1.65	2.5	0.31	43.9	35	53	0.24	0.53

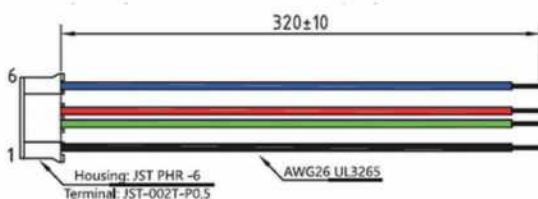
DIMENSION (UNIT:MM)



This outline shows a dual shaft motor.

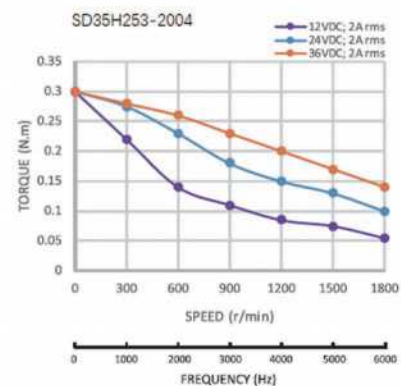
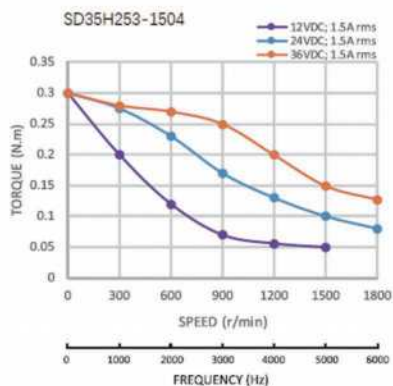
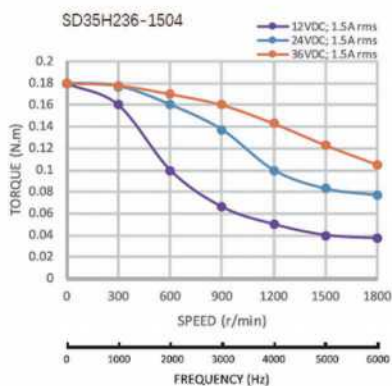
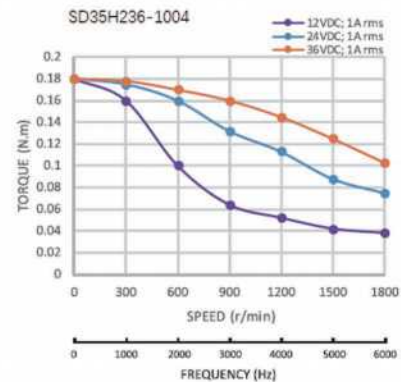
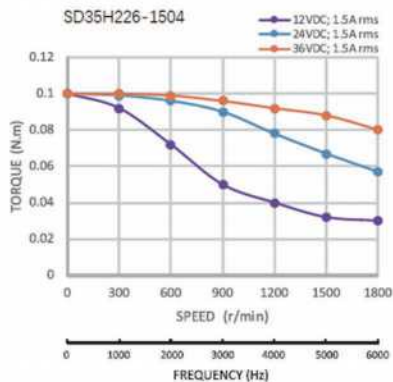
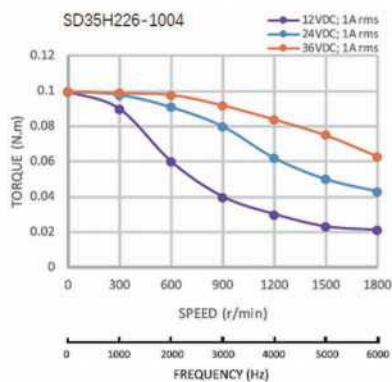
The single-shaft motor does not have the blue part shaft and * mark hole dimensions

Connector with leads



2-Phase Stepping Motor Uni-Polar Type (NEMA 14 35mm · 1.8°)

TORQUE-FREQUENCY CURVE



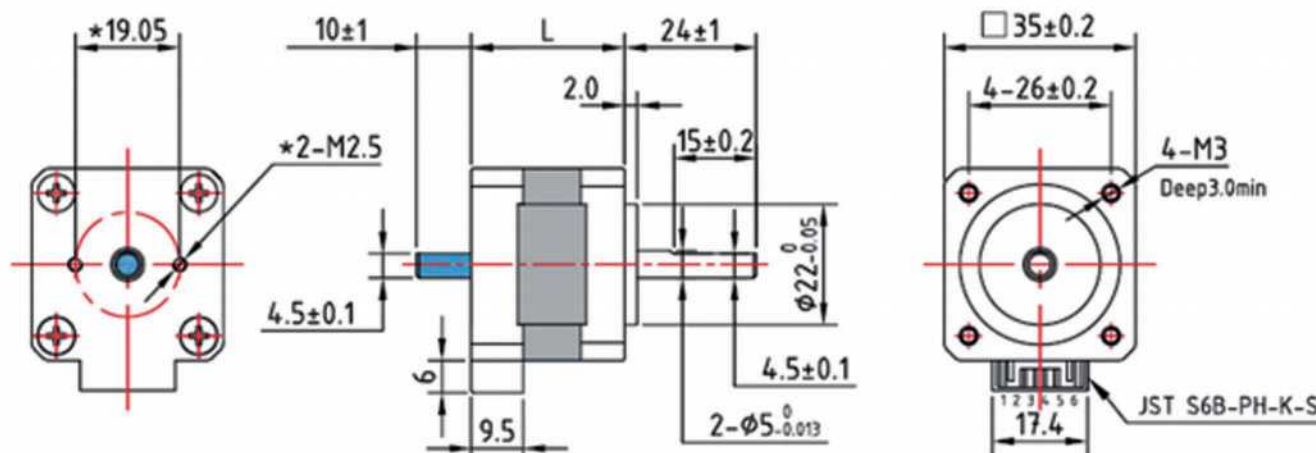
2-Phase Stepping Motor Uni-Polar Type (NEMA 14 35mm · 1.8°)



MOTOR SPECIFICATIONS

Model	Current	Resistance	Inductance	Holding torque		Inertia	Length	Weight	
	A	$\Omega \pm 10\%$	mH $\pm 20\%$	N.m	OZ.in	g/cm ²	mm Max	Kg	Lbs
SD35H226-1206	1.2	3.5	1.2	0.07	9.91	12	26	0.15	0.33
SD35H236-1206	1.2	3.1	1.6	0.12	16.99	20	36.5	0.21	0.46
SD35H253-1206	1.2	4.8	3.2	0.25	35.4	35	53	0.24	0.53

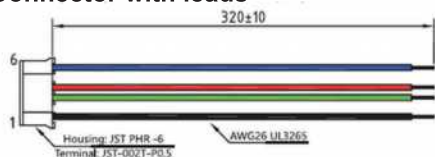
DIMENSION (UNIT:MM)



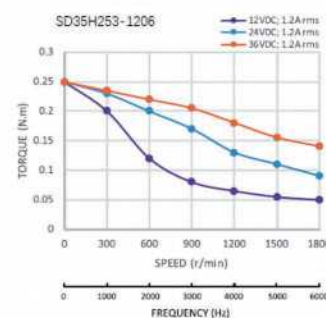
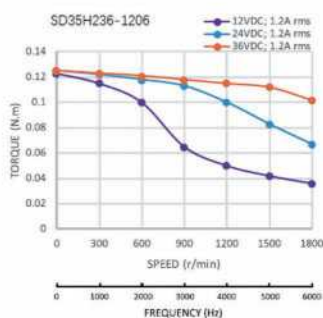
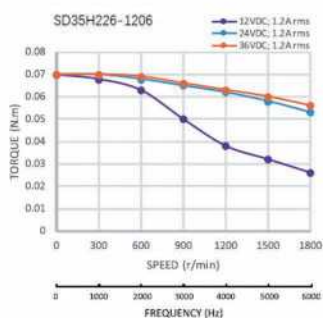
This outline shows a dual shaft motor.

The single-shaft motor does not have the blue part shaft and * mark hole dimensions

Connector with leads



TORQUE-FREQUENCY CURVE



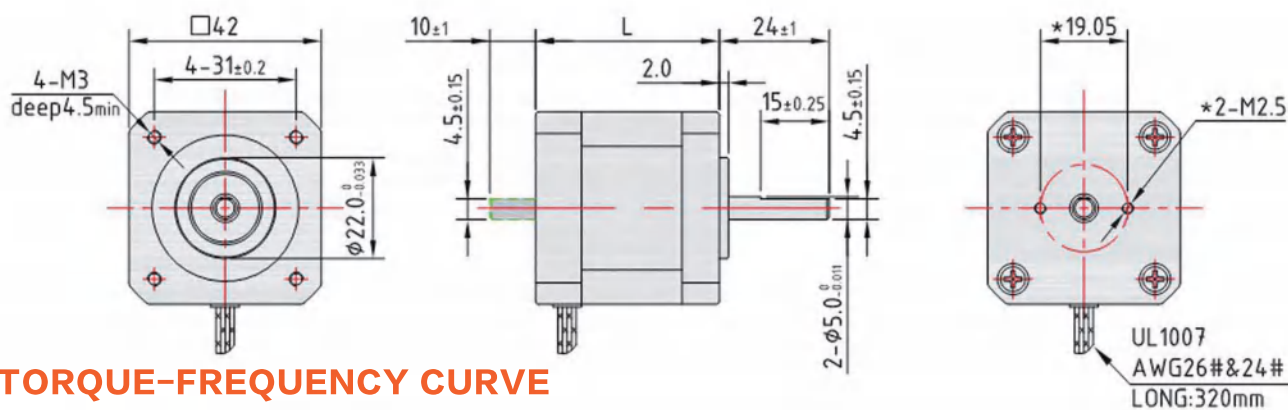
2-Phase High Precision Stepping Motor Bi-polar Type (NEMA 17 42mm · 0.9°)



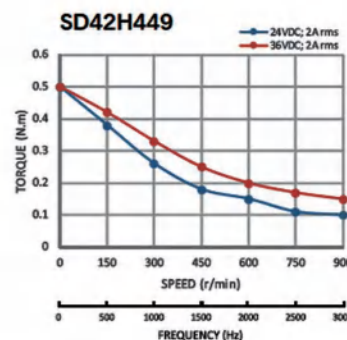
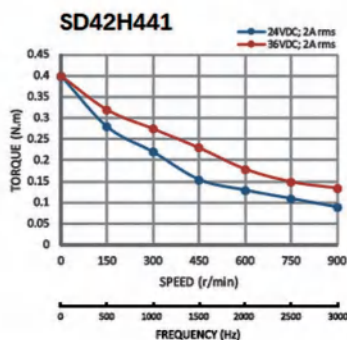
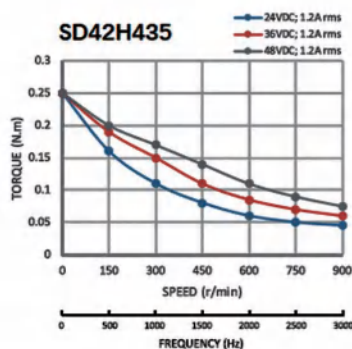
MOTOR SPECIFICATIONS

Model	Current	Resistance	Inductance	Holding torque		Inertia	Length	Weight	
	A	$\Omega \pm 10\%$	mH $\pm 20\%$	N.m	OZ.in	g/cm ²	mm Max	Kg	Lbs
SD42H431-0604	0.6	6.7	12.0	0.12	17.0	23	31	0.20	0.4
SD42H431-1204	1.2	1.8	3.1	0.12	17.0	23	31	0.20	0.4
SD42H435-0604	0.6	8.0	20.0	0.22	31.2	35	35	0.24	0.5
SD42H435-1204	1.2	2.1	5.0	0.22	31.2	35	35	0.24	0.5
SD42H441-0604	0.6	9.7	27.0	0.32	45.3	54	41	0.30	0.7
SD42H441-1204	1.2	2.5	7.0	0.32	45.3	54	41	0.30	0.7
SD42H449-0604	0.6	12.2	37.0	0.40	56.7	77	49	0.36	0.8
SD42H449-1204	1.2	3.1	10.0	0.40	56.7	77	49	0.36	0.8
SD42H449-1804	1.8	1.5	5.0	0.40	56.7	77	49	0.36	0.8
SD42H461-0604	0.6	15.4	49.1	0.68	96.3	110	61	0.50	1.1
SD42H461-1204	1.2	4.0	13.5	0.68	96.3	110	61	0.50	1.1
SD42H461-1804	1.8	2.0	6.3	0.68	96.3	110	61	0.50	1.1

DIMENSION (UNIT:MM)



TORQUE-FREQUENCY CURVE



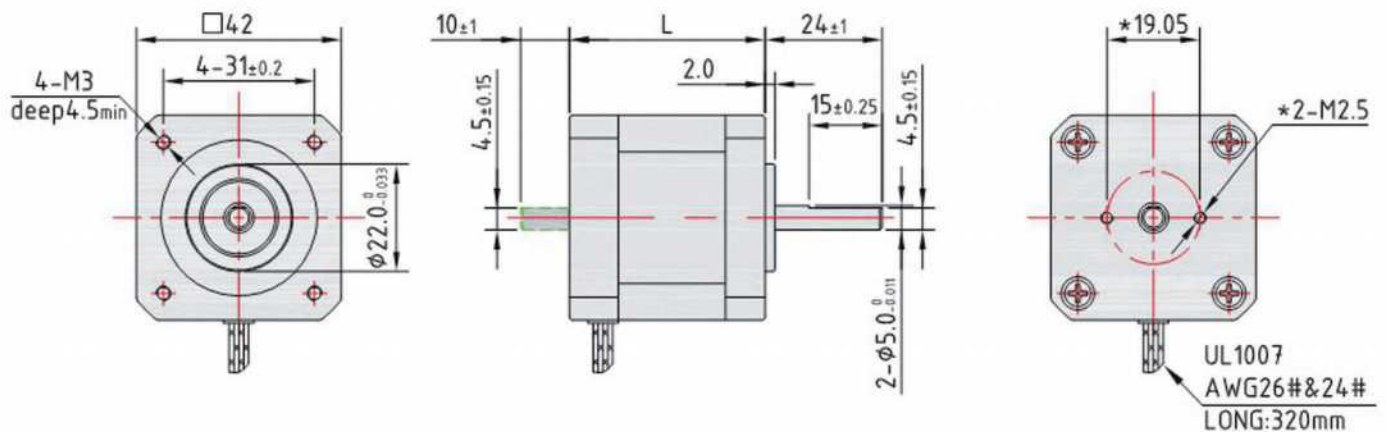
2-Phase Stepping Motor Bi-polar Type (NEMA 17 42mm · 1.8°)



MOTOR SPECIFICATIONS

Model	Current	Resistance	Inductance	Holding torque		Inertia	Length	Weight	
	A	$\Omega \pm 10\%$	mH $\pm 20\%$	N.m	OZ.in	g/cm ²	mm Max	Kg	Lbs
SD42H231-0604	0.6	6.6	9.5	0.16	22.7	23	31	0.20	0.4
SD42H231-1204	1.2	1.8	2.4	0.16	22.7	23	31	0.20	0.4
SD42H235-0604	0.6	8.0	15.2	0.25	35.4	35	35	0.24	0.5
SD42H235-1204	1.2	2.1	3.9	0.25	35.4	35	35	0.24	0.5
SD42H241-1204	1.2	2.5	5.5	0.40	56.7	54	41	0.30	0.7
SD42H241-2004	2	1.05	2	0.40	56.7	54	41	0.30	0.7
SD42H249-1204	1.2	3.1	8	0.48	68.0	77	49	0.36	0.8
SD42H249-2004	2	1.35	2.9	0.48	68.0	77	49	0.36	0.8
SD42H261-1204	1.2	4.0	11	0.72	102.0	110	61	0.50	1.1
SD42H261-2004	2	1.75	4.0	0.72	102.0	110	61	0.50	1.1

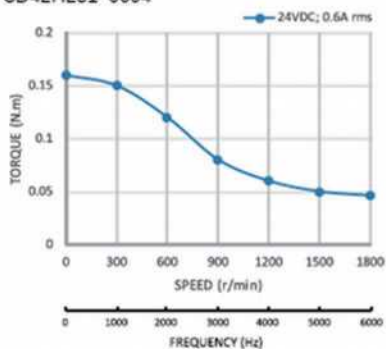
DIMENSION (UNIT:MM)



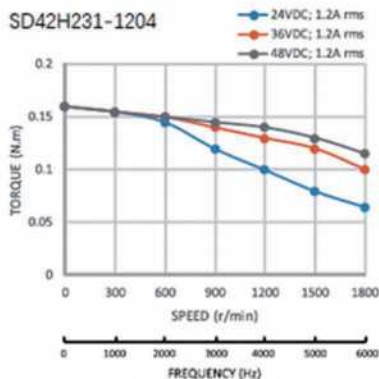
2-Phase Stepping Motor Bi-polar Type (NEMA 17 42mm · 1.8°)

TORQUE-FREQUENCY CURVE

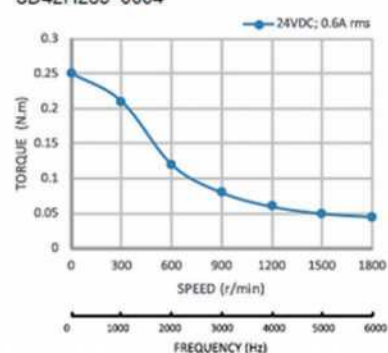
SD42H231-0604



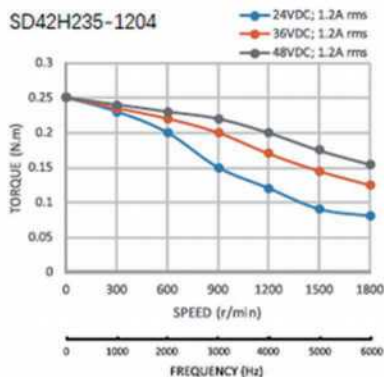
SD42H231-1204



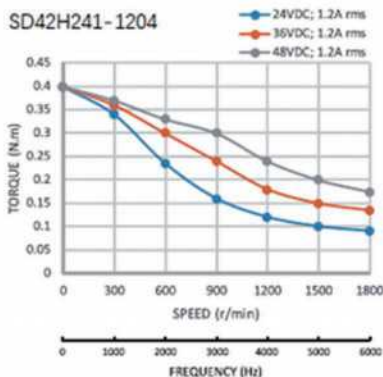
SD42H235-0604



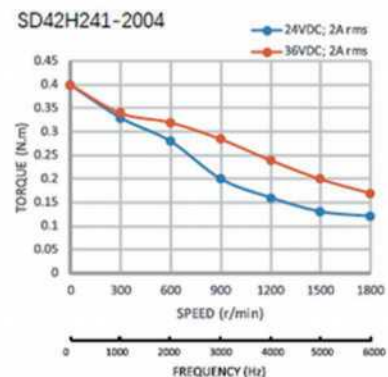
SD42H235-1204



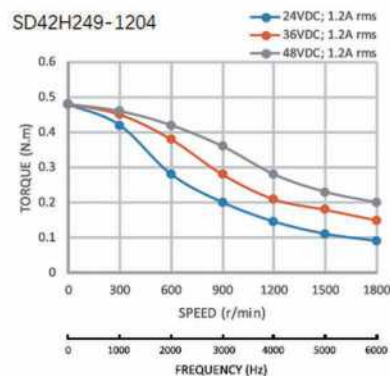
SD42H241-1204



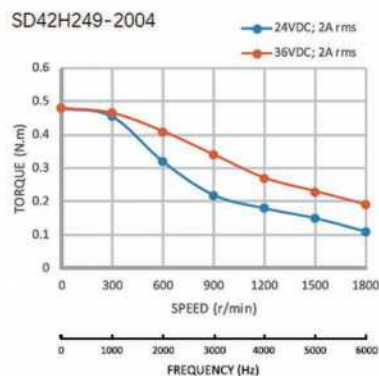
SD42H241-2004



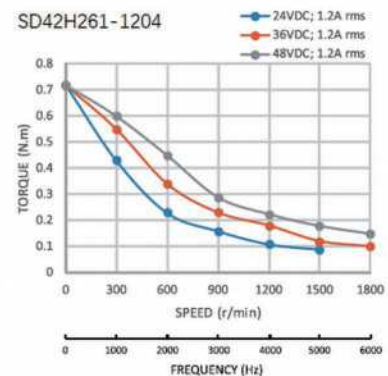
SD42H249-1204



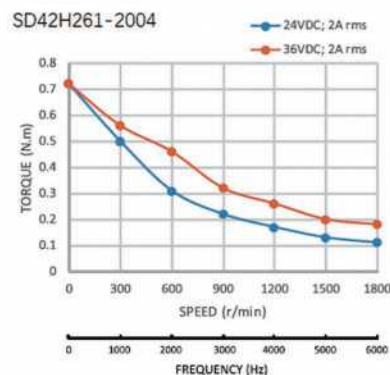
SD42H249-2004



SD42H261-1204



SD42H261-2004



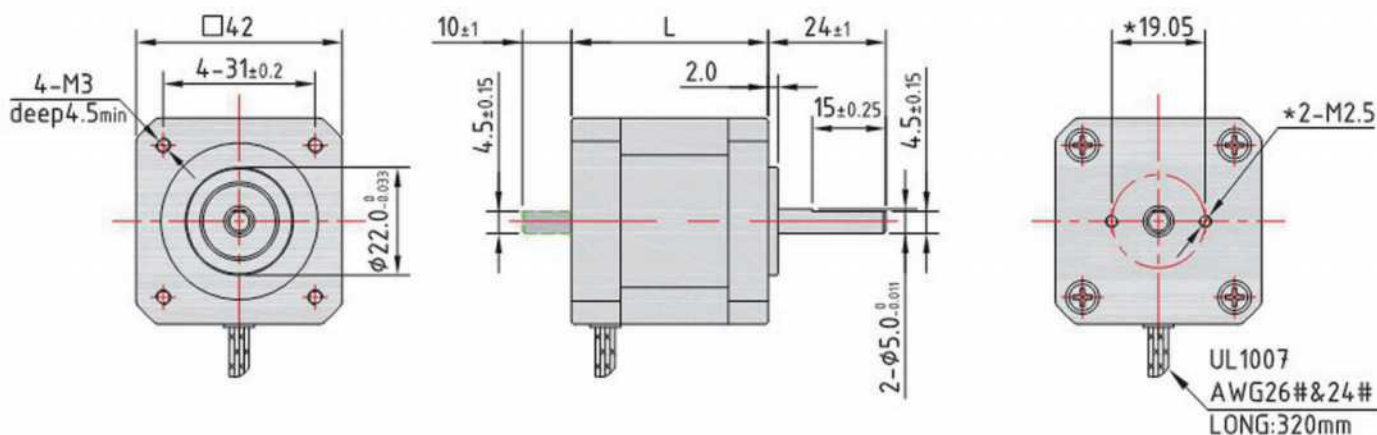
2-Phase Stepping Motor Uni-polar Type (NEMA 17 42mm · 1.8°)



MOTOR SPECIFICATIONS

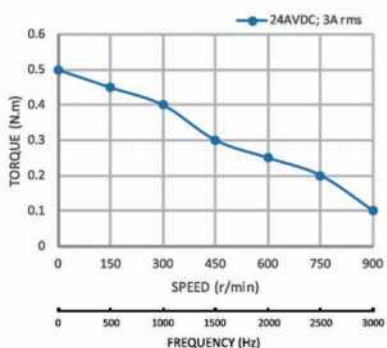
Model	Current	Resistance	Inductance	Holding torque		Inertia	Length	Weight	
	A	$\Omega \pm 10\%$	mH $\pm 20\%$	N.m	OZ.in	g/cm ²	mm Max	Kg	Lbs
SD42H235-1206	1.2	2.4	2	0.17	24.07	35	35	0.24	0.53
SD42H241-1206	1.2	3	3	0.28	39.65	54	41	0.3	0.66
SD42H249-1206	1.2	3.7	4.1	0.33	46.73	77	49	0.36	0.79

DIMENSION (UNIT:MM)

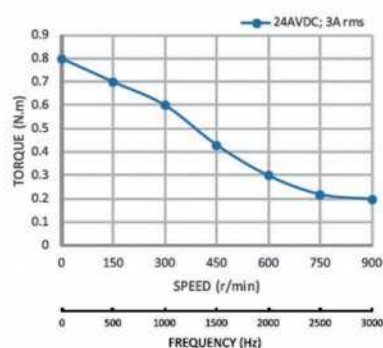


TORQUE-FREQUENCY CURVE

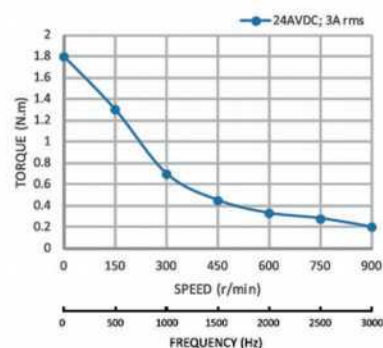
SD57H442-3004



SD57H455-3004



SD57H476-3004



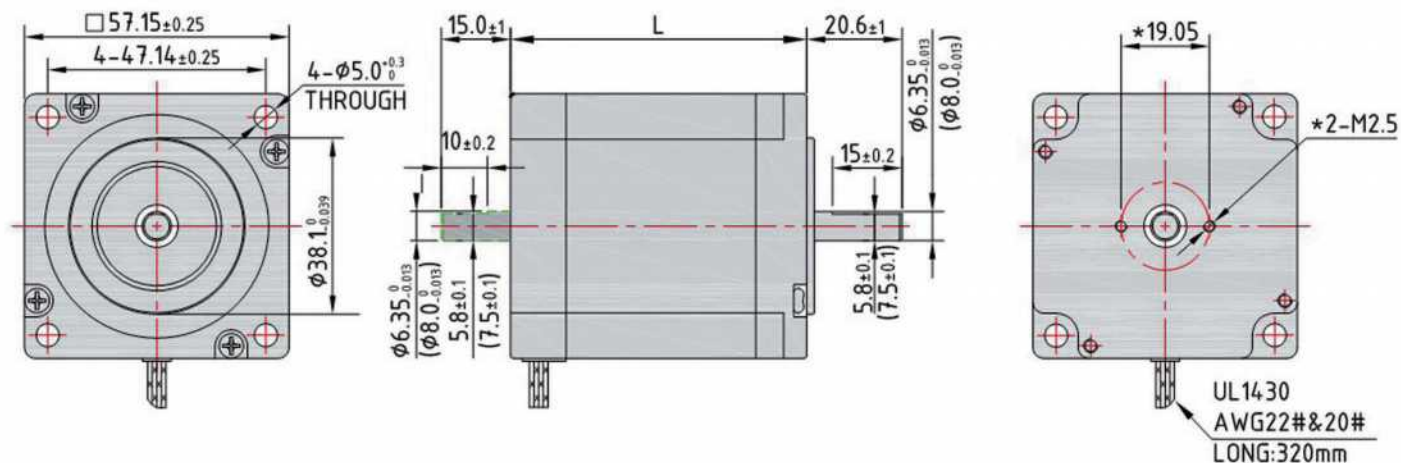
2-Phase High Precision Stepping Motor Bi-Polar Type (NEMA 23 57mm · 0.9°)



MOTOR SPECIFICATIONS

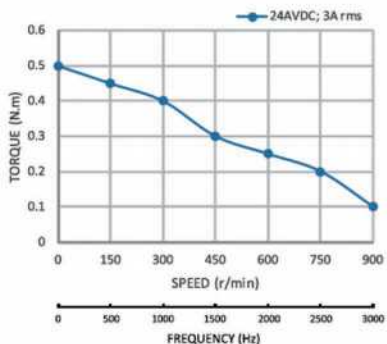
Model	Current	Resistance	Inductance	Holding torque		Inertia	Length	Weight	
	A	$\Omega \pm 10\%$	mH $\pm 20\%$	N.m	OZ.in	g/cm ²	mm Max	Kg	Lbs
SD57H442-3004	3.0	0.55	2.3	0.5	70.81	140	42.5	0.46	1.01
SD57H455-3004	3.0	0.75	3.7	0.9	127.45	280	55.5	0.72	1.59
SD57H476-3004	3.0	1.1	6.0	1.5	212.42	480	76.5	1.1	2.4

DIMENSION (UNIT:MM)

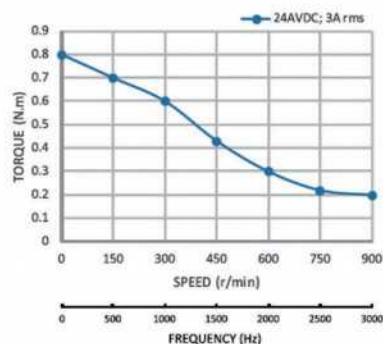


TORQUE-FREQUENCY CURVE

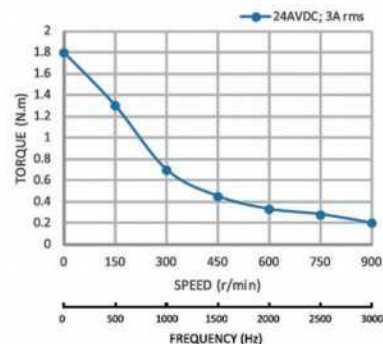
SD57H442-3004



SD57H455-3004



SD57H476-3004



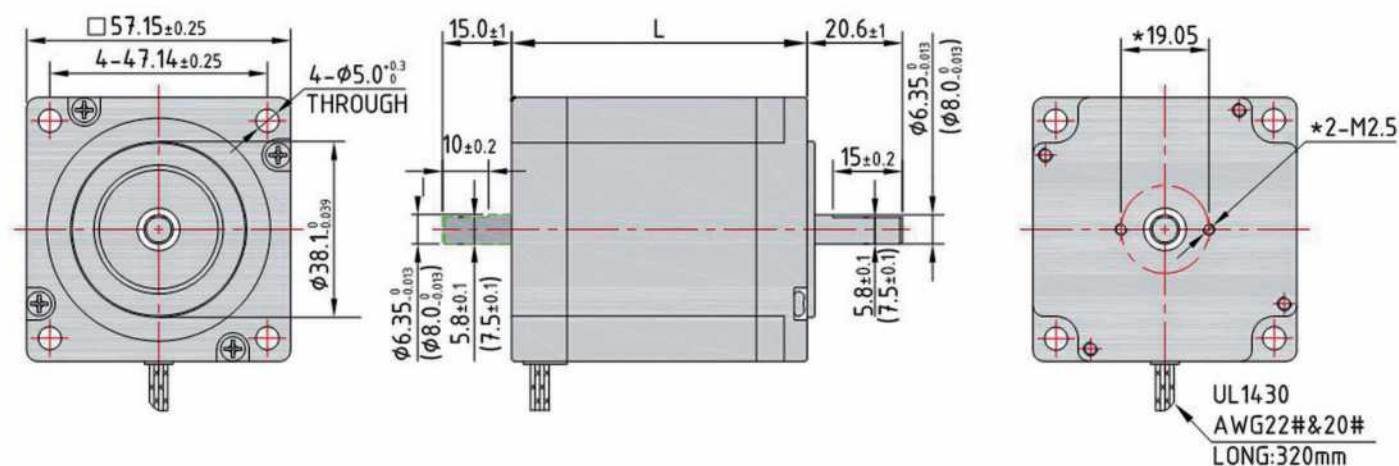
3-Phase Standard Type Stepping Motor (NEMA23 57mm · 1.2°)



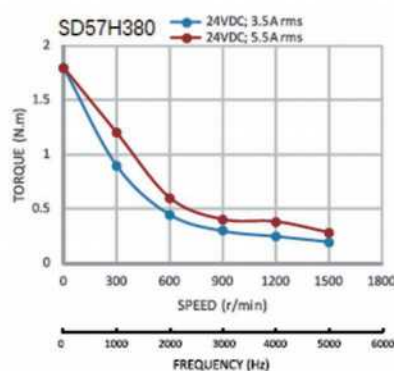
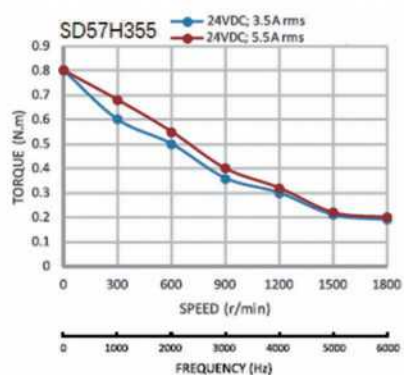
MOTOR SPECIFICATIONS

Model	Current	Resistance	Inductance	Holding torque		Inertia	Length	Weight	
	A	$\Omega \pm 10\%$	mH $\pm 20\%$	N.m	OZ.in	g/cm ²	mm Max	Kg	Lbs
SD57H355-3504	3.5	0.77	1.8	1.0	141.6	280	55.5	0.72	1.59
SD57H355-5504	5.5	0.5	1.6	1.0	141.6	280	55.5	0.72	1.59
SD57H380-3504	3.5	0.86	2	1.8	255.0	480	80.5	1.1	2.4
SD57H380-5504	5.5	0.7	2.4	1.8	255.0	480	80.5	1.1	2.4

DIMENSION (UNIT:MM)



TORQUE-FREQUENCY CURVE



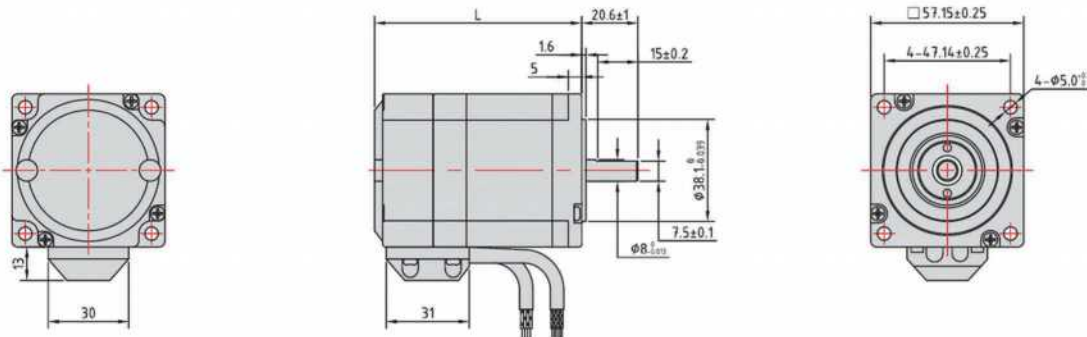
Servo Stepping Motor (NEMA 23 57mm · 1.8°)



MOTOR SPECIFICATIONS

Model	Current	Resistance	Inductance	Holding torque		Inertia	Length	Encoder
	A	$\Omega \pm 10\%$	mH $\pm 20\%$	N.m	OZ.in	g/cm ²	mm Max	Resolution
SD57H255-E1KS	4.0	0.45	1.4	1.2	170.0	280	77	1000CPR
SD57H255-E2K5ZS	4.0	0.45	1.8	1.2	170.0	280	77	2500CPR
SD57H276-E1KS	5.0	0.37	1.8	2.0	283.3	480	98	1000CPR
SD57H276-E2K5ZS	5.0	0.37	1.8	2.0	283.3	480	98	2500CPR

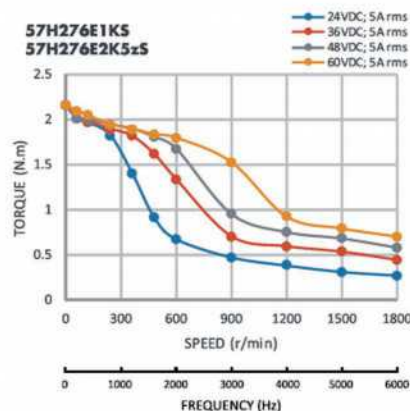
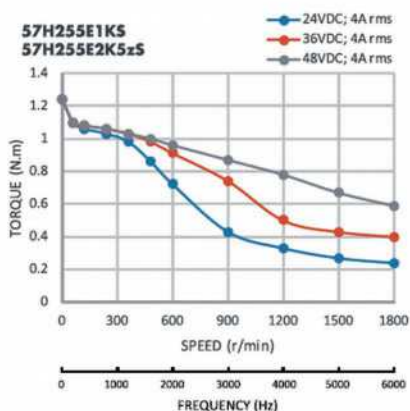
DIMENSION (UNIT:MM)



ENCODER SPECIFICATIONS

Model	E1Kz	E2K5z
Resolution	1000cpr/4000ppr	2500cpr/10000ppr
Type	Incremental Encoder	
Output Mode	Differential	
Output Signal	A+ A-;B+ B-	A+ A-;B+ B-;Z+Z-
Supply Voltage	5VDC±5%	

TORQUE-FREQUENCY CURVE



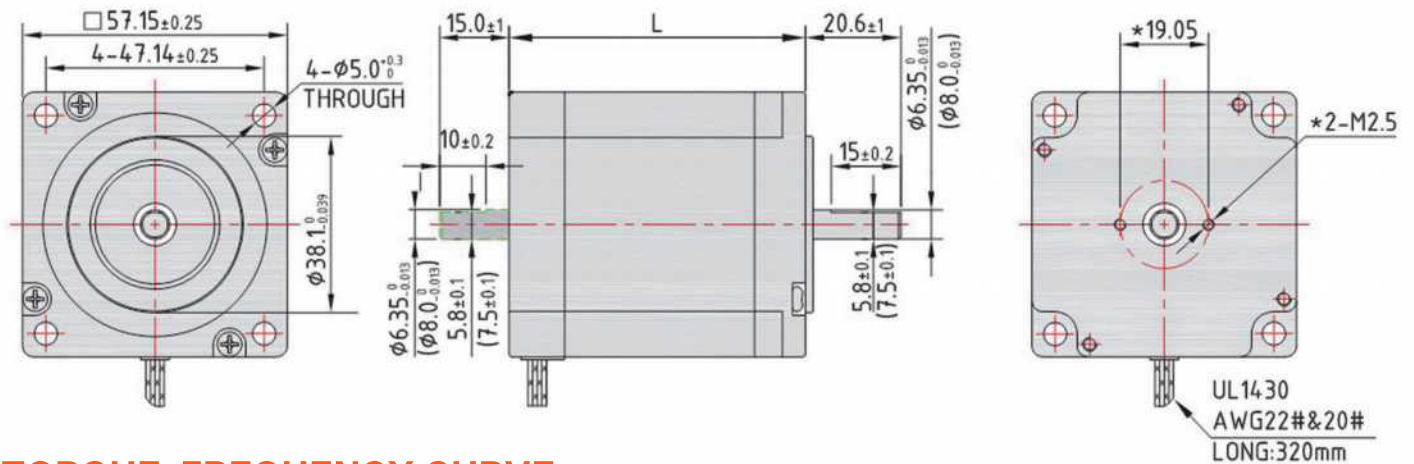
2-Phase Stepping Motor Uni-Polar type (NEMA23 57mm · 1.8°)



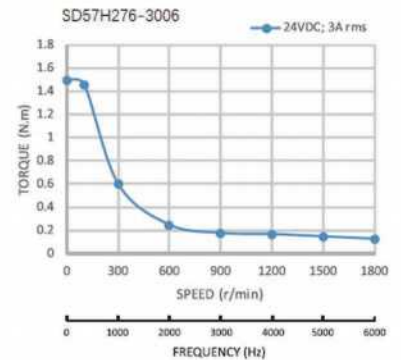
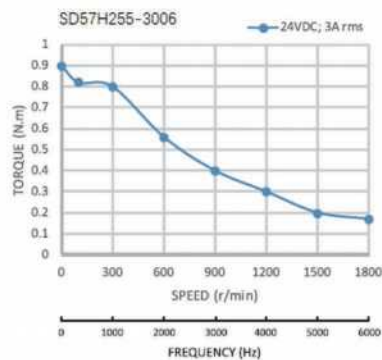
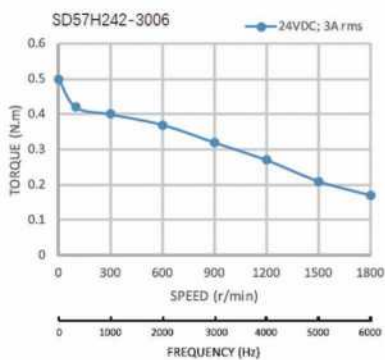
MOTOR SPECIFICATIONS

Model	Current	Resistance	Inductance	Holding torque		Inertia	Length	Weight	
	A	$\Omega \pm 10\%$	mH $\pm 20\%$	N.m	OZ.in	g/cm ²	mm Max	Kg	Lbs
SD57H242-3006	3	0.6	0.5	0.5	70.81	140	42.5	0.46	1.01
SD57H255-3006	3	1.55	0.9	0.9	127.45	180	55.5	0.72	1.59
SD57H276-3006	3	2.4	1.4	1.5	212.42	480	76.5	1.1	2.43

DIMENSION (UNIT:MM)



TORQUE-FREQUENCY CURVE



2-Phase Stepping Motor Bi-Polar Type (NEMA23 57mm · 1.8°)



MOTOR SPECIFICATIONS

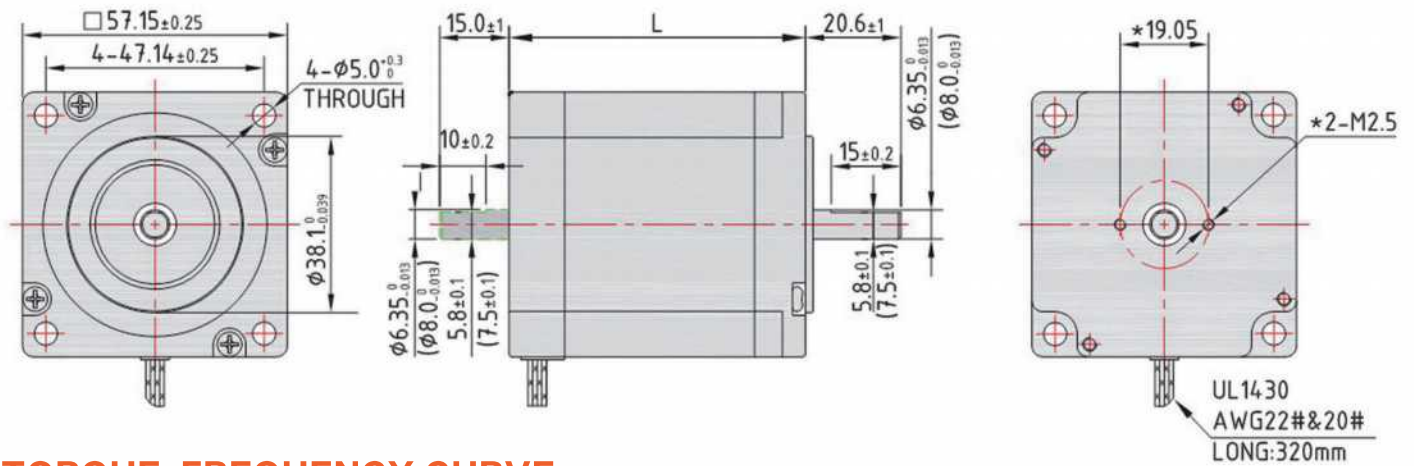
Model	Current	Resistance	Inductance	Holding torque		Inertia	Length	Weight	
	A	$\Omega \pm 10\%$	mH $\pm 20\%$	N.m	OZ.in	g/cm ²	mm Max	Kg	Lbs
SD57H242-0104	1.0	4.2	9.0	0.6	85.0	14.0	42.5	0.46	1.0
SD57H242-0204	2.0	1.2	2.3	0.6	85.0	14.0	42.5	0.46	1.0
SD57H242-0304	3.0	0.5	1.0	0.6	85.0	14.0	42.5	0.46	1.0
SD57H245-0104	1.0	4.5	11.0	0.8	113.3	180	45.5	0.52	1.2
SD57H245-0204	2.0	1.3	2.9	0.8	113.3	180	45.5	0.52	1.2
SD57H245-0304	3.0	0.6	1.3	0.8	113.3	180	45.5	0.52	1.2
SD57H251-0104	1.0	5.3	16.4	1.0	141.6	240	51.5	0.64	1.4
SD57H251-0204	2.0	1.5	4.4	1.0	141.6	240	51.5	0.64	1.4
SD57H251-0304	3.0	0.7	2.0	1.0	141.6	240	51.5	0.64	1.4
SD57H255-0104	1.0	5.8	21.0	1.2	170.0	280	55.5	0.72	1.6
SD57H255-0204	2.0	1.6	5.3	1.2	170.0	280	55.5	0.72	1.6
SD57H255-0304	3.0	0.7	2.4	1.2	170.0	280	55.5	0.72	1.6
SD57H265-0204	2.0	2.0	6.1	1.7	240.8	350	65.5	0.86	1.9
SD57H265-0304	3.0	0.9	3.0	1.7	240.8	350	65.5	0.86	1.9
SD57H265-0404	4.0	0.5	1.6	1.7	240.8	350	65.5	0.86	1.9
SD57H276-0204	2.0	2.4	9.0	2.0	283.3	480	76.5	1.06	2.3
SD57H276-0304	3.0	1.1	4.2	2.0	283.3	480	76.5	1.06	2.3
SD57H276-0404	4.0	0.6	2.4	2.0	283.3	480	76.5	1.06	2.3
SD57H280-0304	3	1.2	4.5	2.2	311.6	520	80.5	1.2	2.6
SD57H280-0404	4	0.65	2.5	2.2	311.6	520	80.5	1.2	2.6
SD57H280-0504	5	0.36	1.76	2.2	311.65	520	80.5	1.2	2.6
SD57H2100-0404	4	0.88	3.2	3	425	720	101	1.5	3.25
SD57H2100-0504	5	0.5	2.3	3	425	720	101	1.5	3.25

2-Phase Stepping Motor Uni-Polar type (NEMA23 57mm · 1.8°)

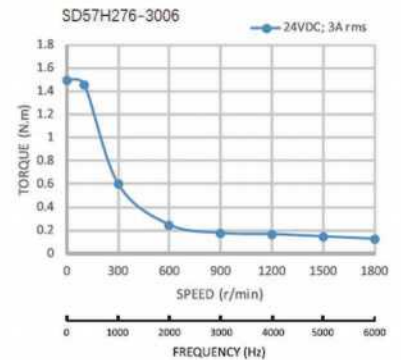
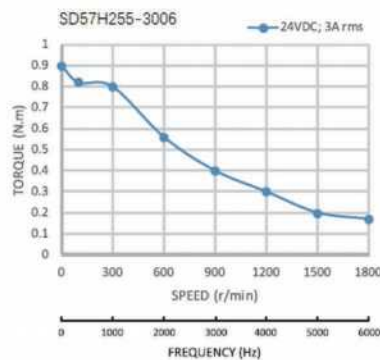
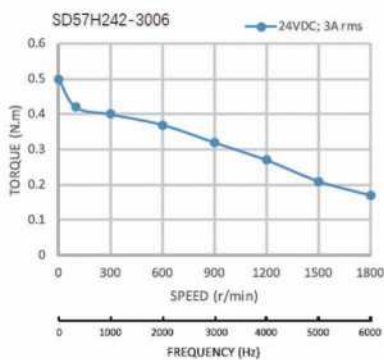
MOTOR SPECIFICATIONS

Model	Current	Resistance	Inductance	Holding torque		Inertia	Length	Weight	
	A	$\Omega \pm 10\%$	mH $\pm 20\%$	N.m	OZ.in	g/cm ²	mm Max	Kg	Lbs
SD57H242-3006	3	0.6	0.5	0.5	70.81	140	42.5	0.46	1.01
SD57H255-3006	3	1.55	0.9	0.9	127.45	180	55.5	0.72	1.59
SD57H276-3006	3	2.4	1.4	1.5	212.42	480	76.5	1.1	2.43

DIMENSION (UNIT:MM)

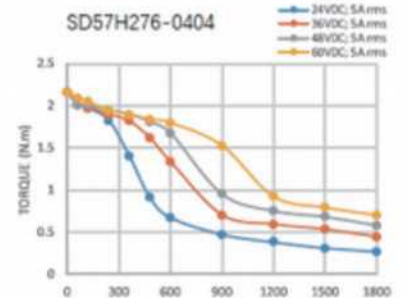
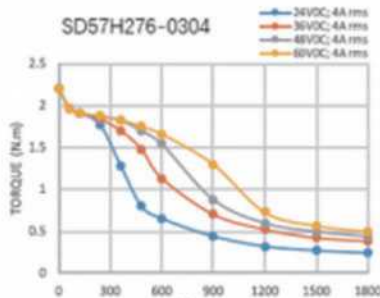
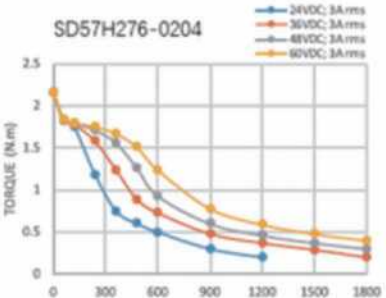
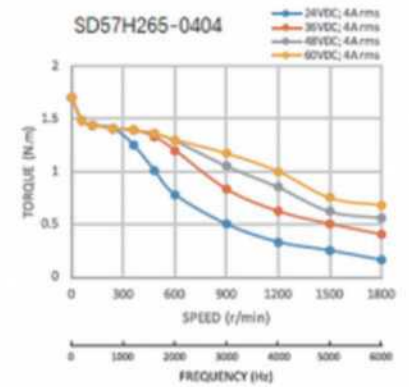
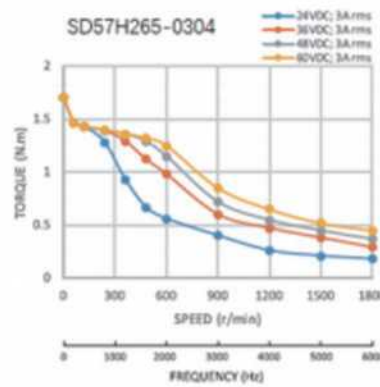
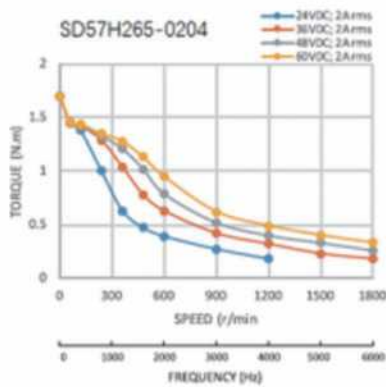
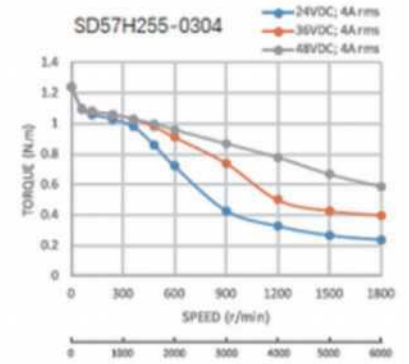
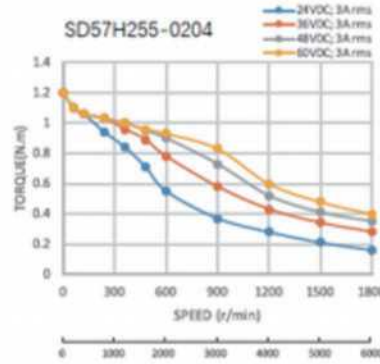
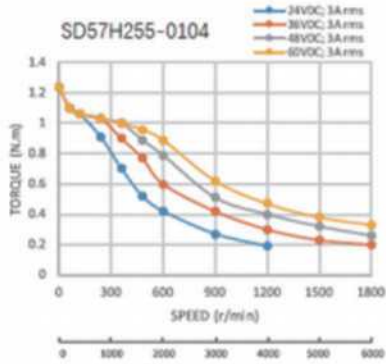
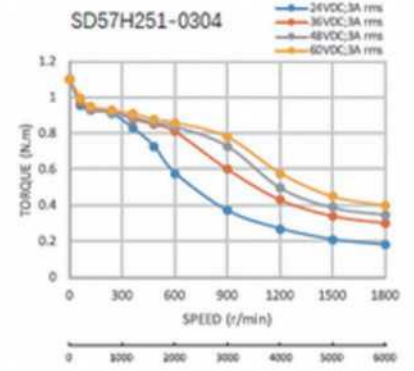
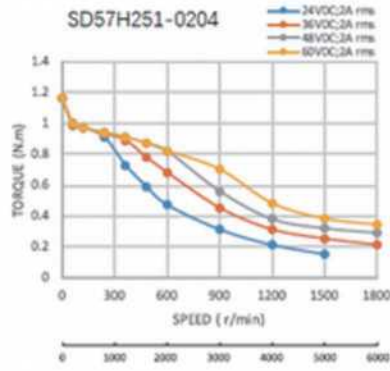
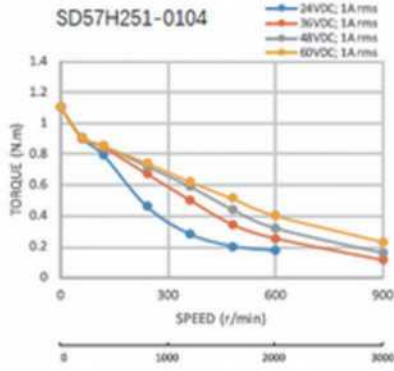


TORQUE-FREQUENCY CURVE



2-Phase Stepping Motor Bi-Polar Type (NEMA23 57mm · 1.8°)

TORQUE-FREQUENCY CURVE



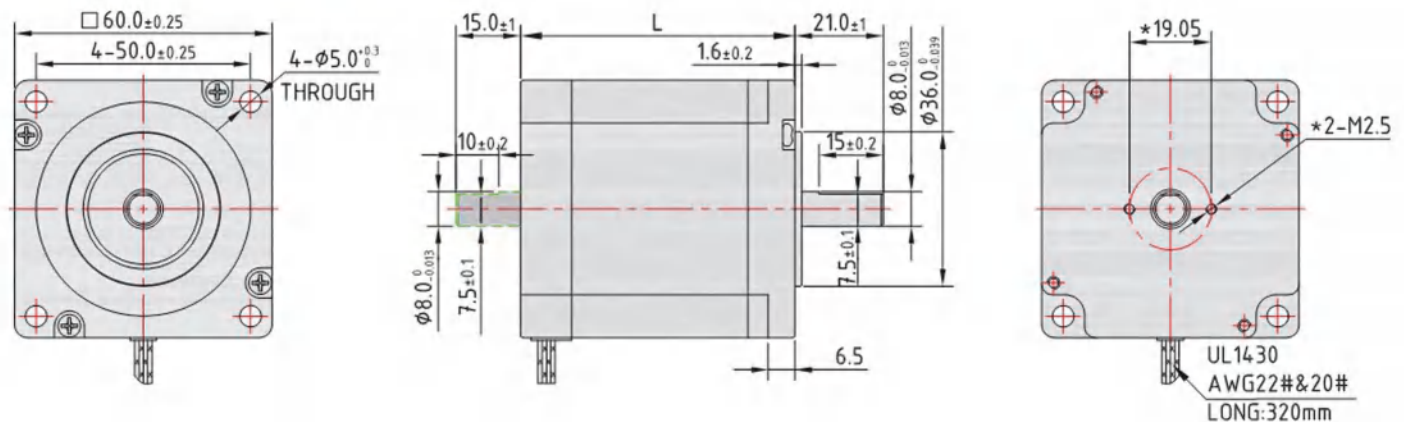
2-Phase Stepping Motor Bi-Polar Type (NEMA 24 60mm · 1.8°)



MOTOR SPECIFICATIONS

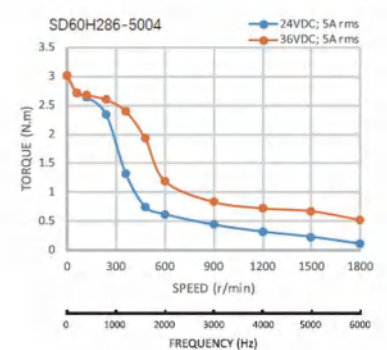
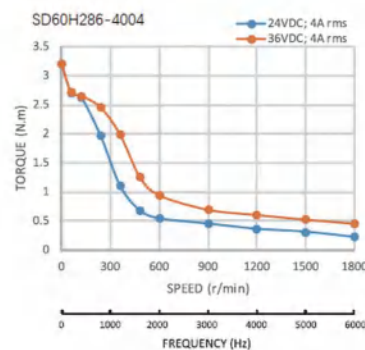
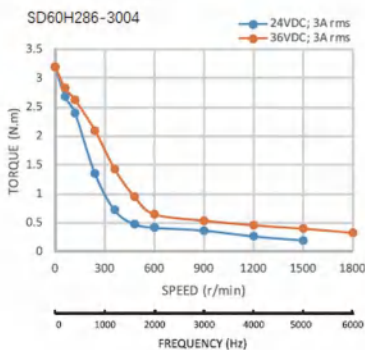
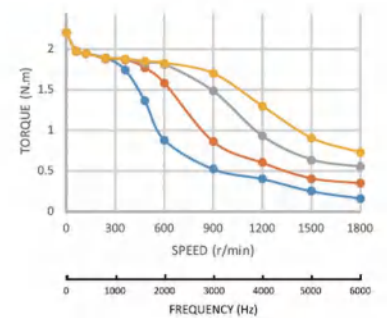
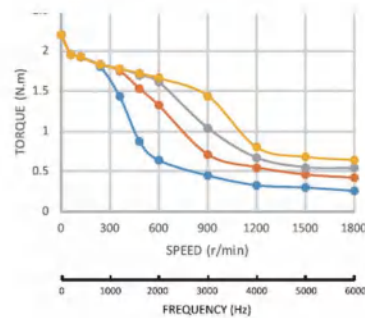
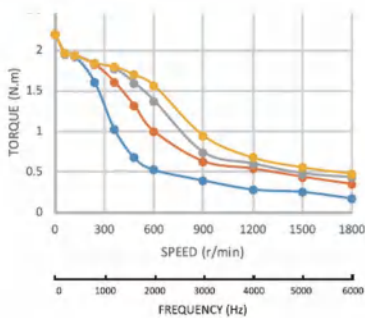
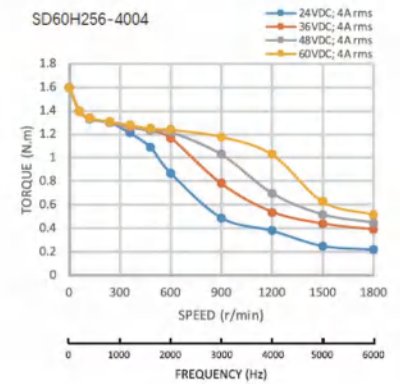
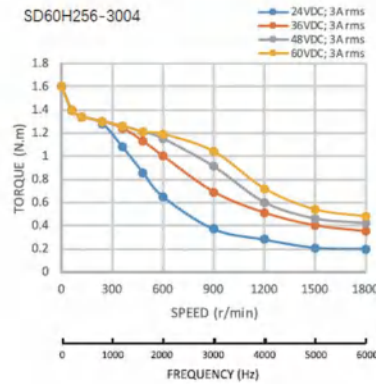
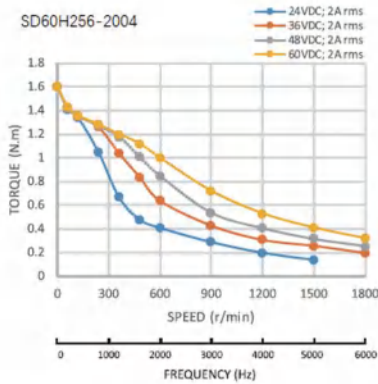
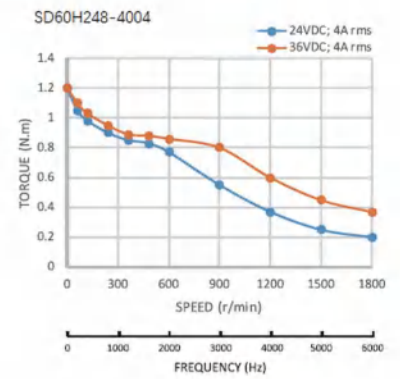
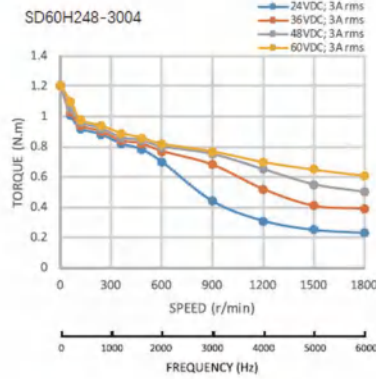
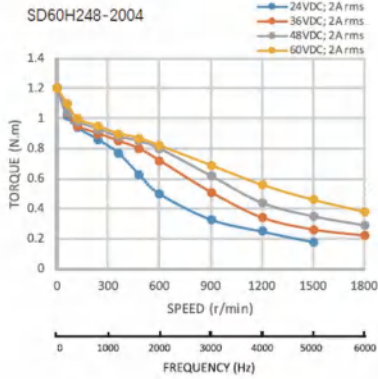
Model	Current	Resistance	Inductance	Holding torque		Inertia	Length	Weight	
	A	$\Omega \pm 10\%$	mH $\pm 20\%$	N.m	OZ.in	g/cm ²	mm Max	Kg	Lbs
SD60H248-2004	2.0	1.7	3.9	1.1	155.77	240	47	0.6	1.3
SD60H248-3004	3.0	0.6	1.5	1.1	155.77	240	47	0.6	1.3
SD60H248-4004	4.0	0.38	0.78	1.1	155.77	240	47	0.6	1.3
SD60H256-2004	2.0	1.8	5.7	1.5	212.42	340	56	0.8	1.8
SD60H256-3004	3.0	0.76	2.3	1.5	212.42	340	56	0.8	1.8
SD60H256-4004	4.0	0.44	1.1	1.5	212.42	340	56	0.8	1.8
SD60H269-3004	3.0	1.0	3.2	2.1	297.38	490	68	1.0	2.2
SD60H269-4004	4.0	0.6	1.9	2.1	297.38	490	68	1.0	2.2
SD60H269-5004	5.0	0.34	1.1	2.1	297.38	490	68	1.0	2.2
SD60H286-3004	3.0	1.3	5.0	3.0	424.83	690	85	1.3	2.9
SD60H286-4004	4.0	0.78	2.7	3.0	424.83	690	85	1.3	2.9
SD60H286-5004	5.0	0.43	1.7	3.0	424.83	690	85	1.3	2.9

DIMENSION (UNIT:MM)



2-Phase Stepping Motor Bi-Polar Type (NEMA 24 60mm · 1.8°)

TORQUE-FREQUENCY CURVE



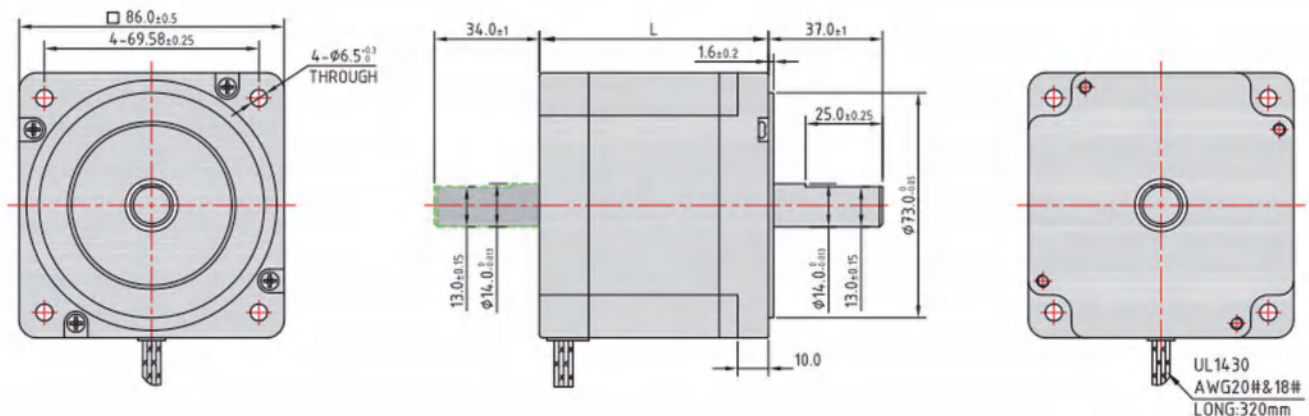
2-Phase Stepping Motor Bi-Polar Type (NEMA 34 86mm · 1.8°)



MOTOR SPECIFICATIONS

Model	Current	Resistance	Inductance	Holding torque		Inertia	Length	Weight	
	A	$\Omega \pm 10\%$	mH $\pm 20\%$	N.m	OZ.in	g/cm ²	mm Max	Kg	Lbs
SD86H260-3004	3.0	0.96	5	3.0	425	1.1	60.5	1.6	3.5
SD86H260-4504	4.5	0.5	2.7	3.0	425	1.1	60.5	1.6	3.5
SD86H268-3004	3.0	1.0	6.8	3.6	510	1.4	66.5	1.8	4.0
SD86H268-4504	4.5	0.5	3.3	3.6	510	1.4	66.5	1.8	4.0
SD86H280-4504	4.5	0.6	4.5	4.5	637	1.8	75	2.1	4.6
SD86H280-6004	6.0	0.34	2.4	4.5	637	1.8	75	2.1	4.6
SD86H298-4504	4.5	0.76	6.7	7	991.3	2.8	96.5	2.9	6.4
SD86H298-6004	6.0	0.45	3.5	7	991.3	2.8	96.5	2.9	6.4
SD86H2120-4504	4.5	0.9	8.8	8.5	1204	3.6	113.5	3.6	7.9
SD86H2120-6004	6.0	0.54	5	8.5	1204	3.6	113.5	3.6	7.9
SD86H2128-4504	4.5	0.64	10.2	10.2	1444.4	4.2	126	4.1	9.0
SD86H2128-6004	6.0	0.6	5.5	10.2	1444.4	4.2	126	4.1	9.0
SD86H2160-4504	4.5	1.3	11.8	12.0	1700	5.4	151.5	5.0	11.0
SD86H2160-6004	6.0	0.72	7.3	12.0	1700	5.4	151.5	5.0	11.0

DIMENSION (UNIT:MM)



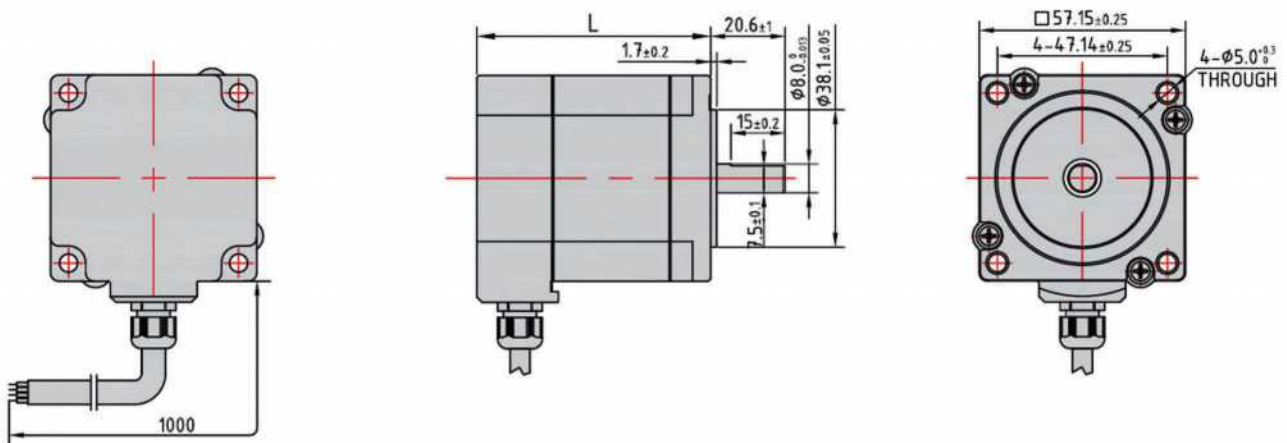
3-Phase Waterproof Stepping Motor Bi-Polar Type (NEMA 23 57mm · 1.2°) IP65



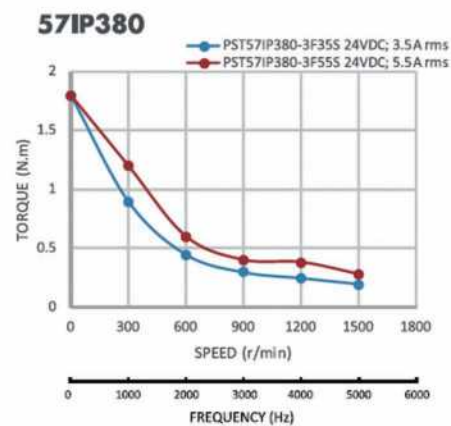
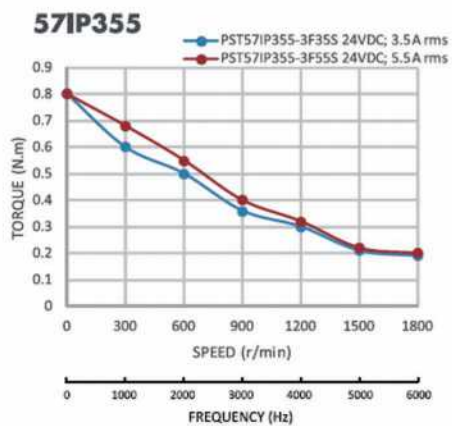
MOTOR SPECIFICATIONS

Model	Current	Resistance	Inductance	Holding torque		Inertia	Length	Weight	
	A	$\Omega \pm 10\%$	mH $\pm 20\%$	N.m	OZ.in	g/cm ²	mm Max	Kg	Lbs
SD57IP355-3504	3.5	0.77	1.8	1.0	141.6	280	65	1.5	3.3
SD57IP355-5504	5.5	0.5	1.6	1.0	141.6	280	65	1.5	3.3
SD57IP380-3504	3.5	0.86	1.2	1.8	255.0	480	90	2.5	5.5
SD57IP380-5504	5.5	0.7	2.4	1.8	255.0	480	90	2.5	5.5

DIMENSION (UNIT:MM)



TORQUE-FREQUENCY CURVE



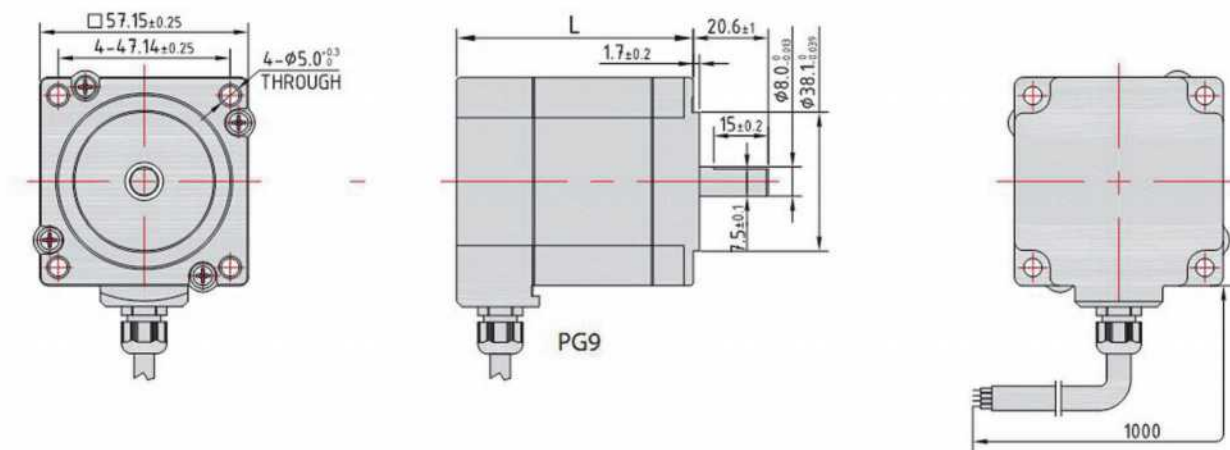
2-Phase Waterproof Stepping motor Bi-Polar Type (NEMA 23 57mm · 1.8°) IP65



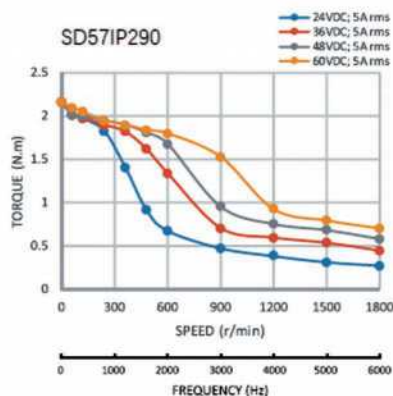
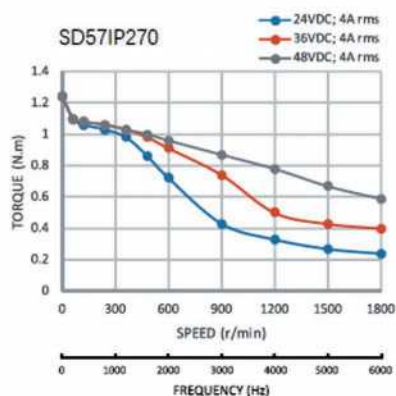
MOTOR SPECIFICATIONS

Model	Current	Resistance	Inductance	Holding torque		Inertia	Length	Weight	
	A	$\Omega \pm 10\%$	mH $\pm 20\%$	N.m	OZ.in	g/cm ²	mm Max	Kg	Lbs
SD57IP270-1004	1.0	5.8	21.0	1.2	170.0	280	65	0.7	1.5
SD57IP270-2004	2.0	1.6	5.3	1.2	170.0	280	65	0.7	1.5
SD57IP270-3004	3.0	0.7	2.4	1.2	170.0	280	65	0.7	1.5
SD57IP290-2004	2.0	2.4	9.0	2.0	283.3	480	86	1.1	2.4
SD57IP290-3004	3.0	1.1	4.2	2.0	283.3	480	86	1.1	2.4
SD57IP290-4004	4.0	0.6	2.4	2.0	283.3	480	86	1.1	2.4

DIMENSION (UNIT:MM)



TORQUE-FREQUENCY CURVE



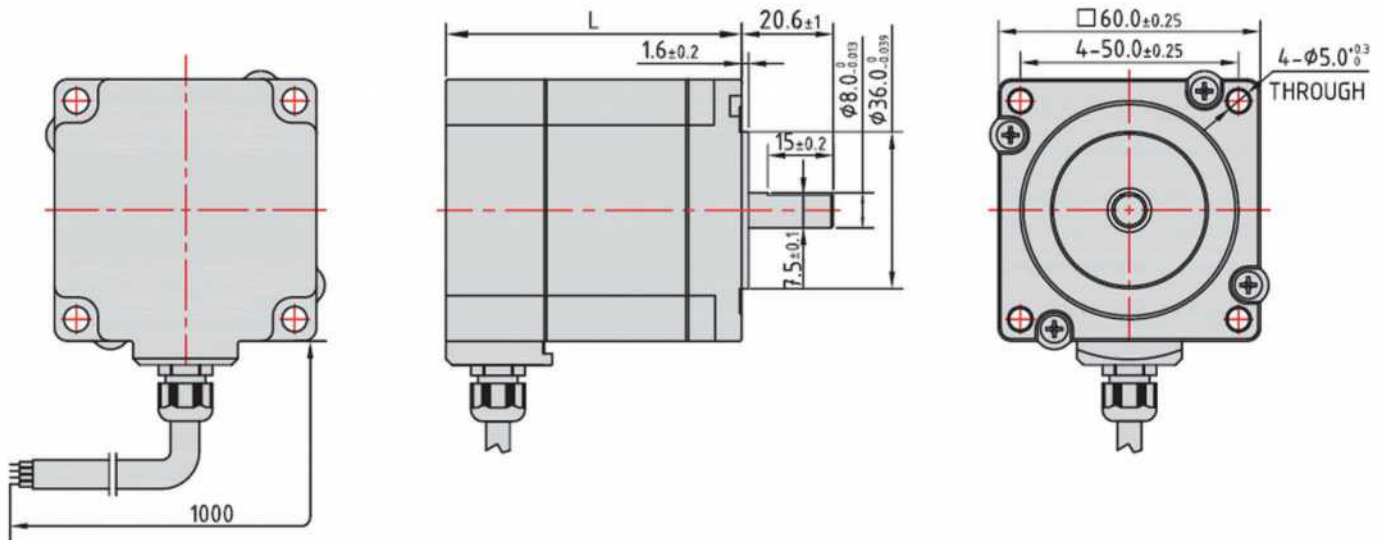
2-Phase Waterproof Stepping Motor Bi-polar Type (NEMA 24 60mm - 1.8°) IP65



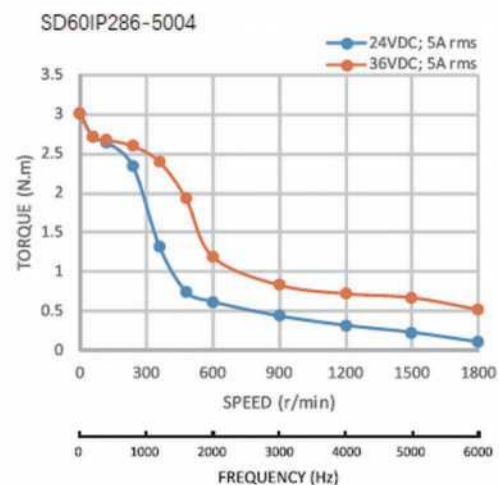
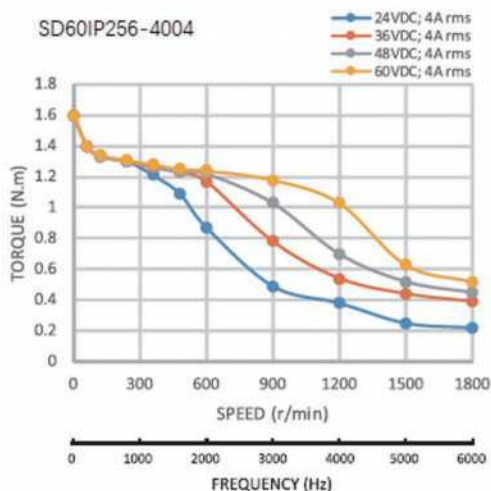
MOTOR SPECIFICATIONS

Model	Current	Resistance	Inductance	Holding torque		Inertia	Length	Weight	
	A	$\Omega \pm 10\%$	mH $\pm 20\%$	N.m	OZ.in	g/cm ²	mm Max	Kg	Lbs
SD60IP256-4004	4.0	0.5	1.2	1.5	212.42	340	70	1.8	3.97
SD60IP286-5004	5.0	0.4	2.0	3.2	453.16	690	100	3.1	6.83

DIMENSION (UNIT:MM)



TORQUE-FREQUENCY CURVE



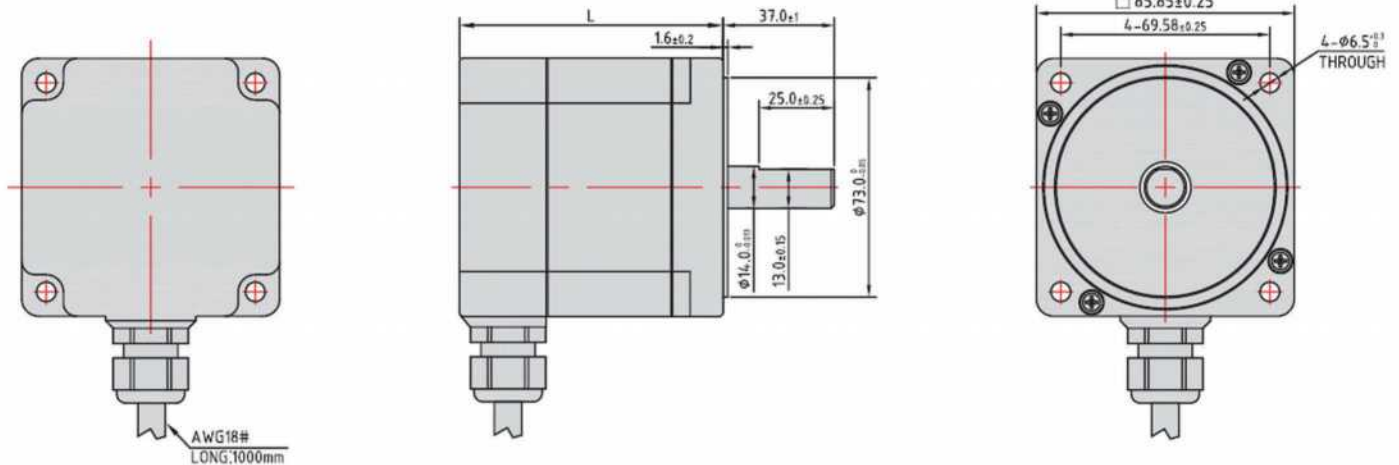
2-Phase Waterproof Stepping Motor Bi-Polar Type (NEMA 34 86mm · 1.8°) IP65



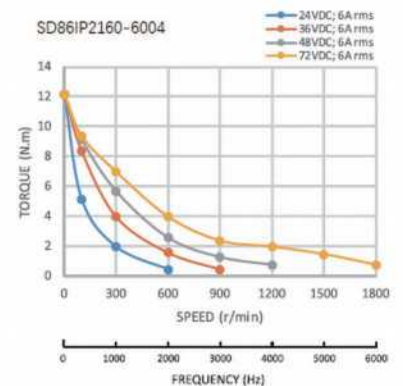
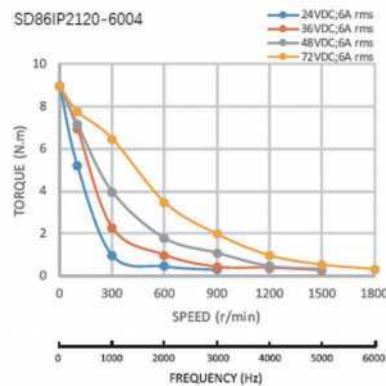
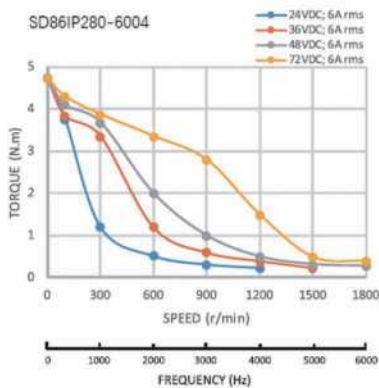
MOTOR SPECIFICATIONS

Model	Current	Resistance	Inductance	Holding torque		Inertia	Length	Weight	
	A	$\Omega \pm 10\%$	mH $\pm 20\%$	N.m	OZ.in	kg/cm ²	mm Max	Kg	Lbs
SD86IP280-6004	6.0	0.3	3.4	4.5	637	0.65	88	4.6	10.1
SD86IP2120-6004	6.0	0.5	6.5	8.5	1204	1.2	126	7.9	17.4
SD86IP2160-6004	6.0	0.7	9.2	12	1699	1.7	162	11	24.3

DIMENSION (UNIT:MM)



TORQUE-FREQUENCY CURVE



Servo Stepping Motor (NEMA 17 42mm · 1.8°)

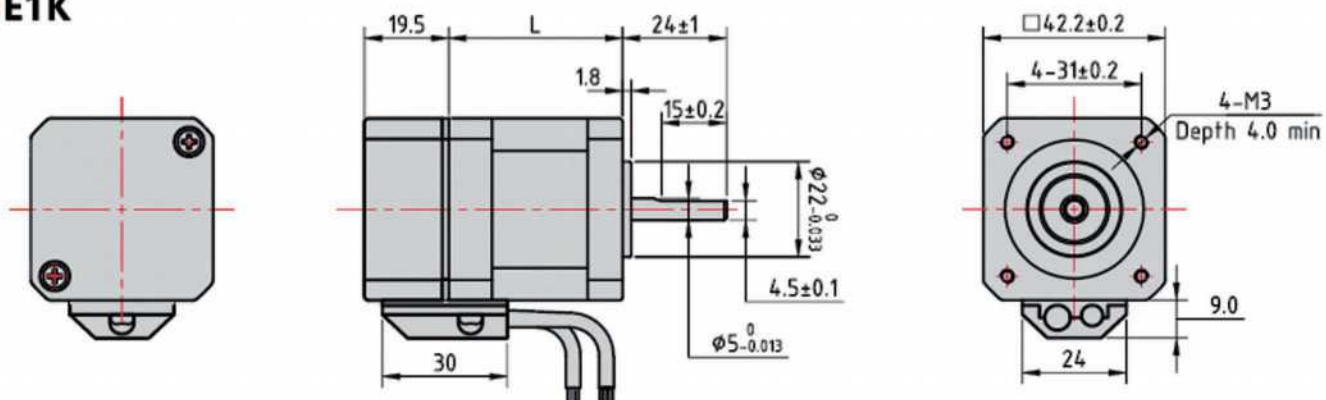


MOTOR SPECIFICATIONS

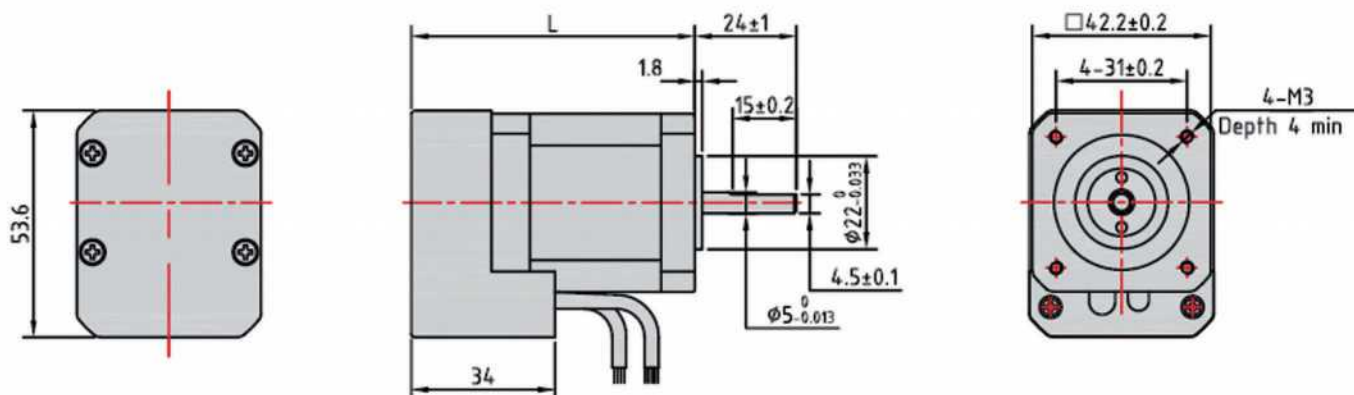
Model	Current	Resistance	Inductance	Holding torque		Inertia	Length	Encoder
	A	$\Omega \pm 10\%$	mH $\pm 20\%$	N.m	OZ.in	g/cm ²	mm Max	Resolution
SD42H249-E1KS	2	1.35	2.9	0.48	68.0	77	68	1000CPR
SD42H249-E2K5ZS	2	1.35	2.9	0.48	68.0	77	68	2500CPR
SD42H261-E1KS	2	1.75	4.0	0.72	102.0	100	80	1000CPR
SD42H261-E3K5ZS	2	1.75	4.0	0.72	102.0	100	80	2500CPR

DIMENSION (UNIT:MM)

● E1K



● E2K5z

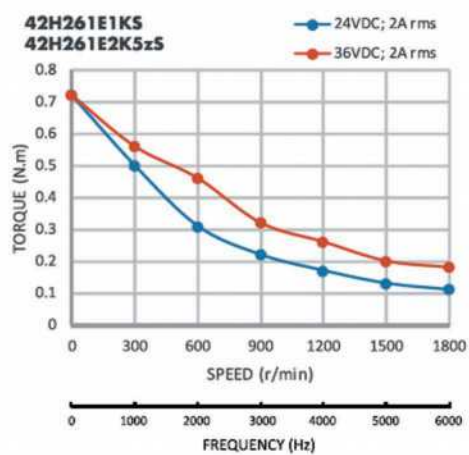
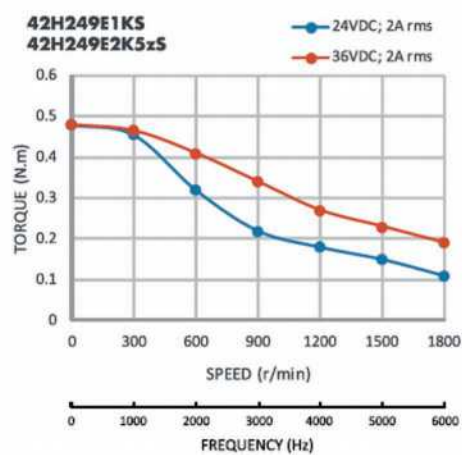


Servo Stepping Motor (NEMA 17 42mm · 1.8°)

ENCODER SPECIFICATIONS

Model	E1Kz	E2K5z
Resolution	1000cpr/4000ppr	2500cpr/10000ppr
Type	Incremental Encoder	
Output Mode	Differential	
Output Signal	A+ A-;B+ B-	A+ A-;B+ B-;Z+Z-
Supply Voltage	5VDC±5%	

TORQUE-FREQUENCY CURVE



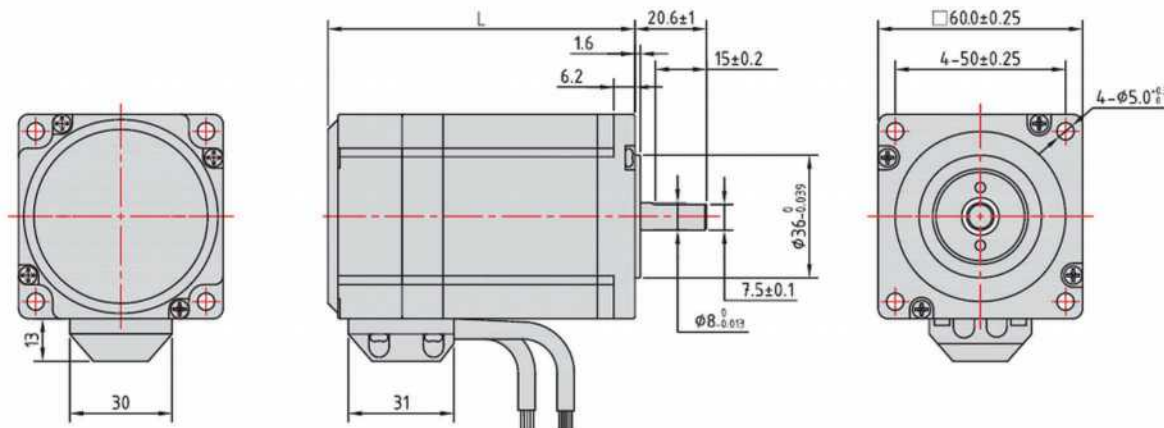
Servo Stepping Motor(NEMA24 60mm · 1.8°)



MOTOR SPECIFICATIONS

Model	Current	Resistance	Inductance	Holding torque		Inertia	Length	Encoder
	A	$\Omega \pm 10\%$	mH $\pm 20\%$	N.m	OZ.in	g/cm ²	mm Max	Resolution
SD60H268-E1KS	5.0	0.34	1.1	2.1	297.38	490	89	1000CPR
SD60H268-E2K5ZS	5.0	0.34	1.1	2.1	297.38	490	89	2500CPR
SD60H286-E1KS	5.0	0.43	1.7	3.0	424.83	690	107	1000CPR
SD60H286-E2K5ZS	5.0	0.43	1.7	3.0	424.83	690	107	2500CPR

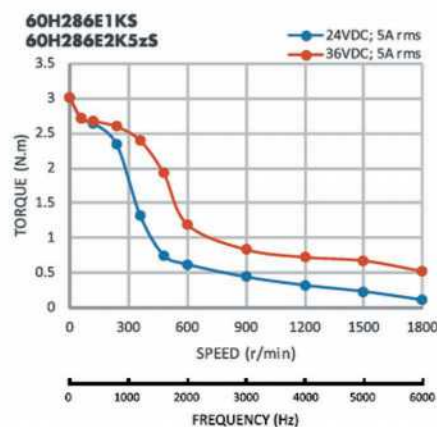
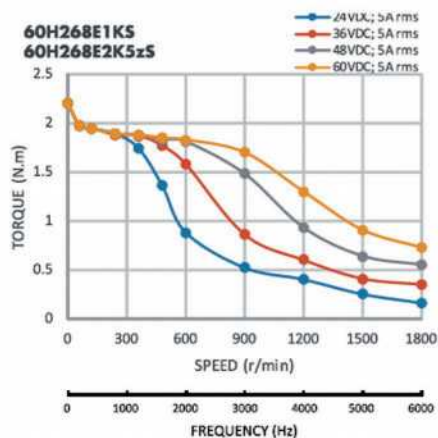
DIMENSION (UNIT:MM)



ENCODER SPECIFICATIONS

Model	E1Kz	E2K5z
Resolution	1000cpr/4000ppr	2500cpr/10000ppr
Type	Incremental Encoder	
Output Mode	Differential	
Output Signal	A+ A-; B+ B-	A+ A-; B+ B-; Z+ Z-
Supply Voltage	5VDC $\pm 5\%$	

TORQUE-FREQUENCY CURVE



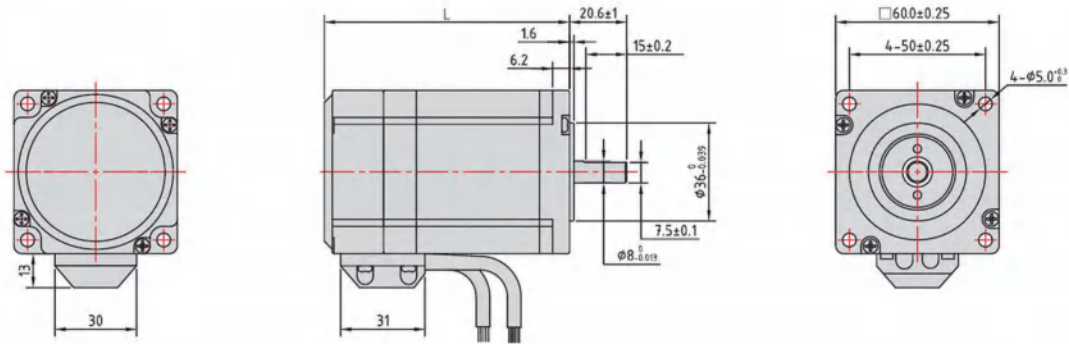
Servo Stepping Motor(NEMA34 86mm · 1.8°)



MOTOR SPECIFICATIONS

Model	Current	Resistance	Inductance	Holding torque		Inertia	Length	Encoder
	A	$\Omega \pm 10\%$	mH $\pm 20\%$	N.m	OZ.in	g/cm ²	mm Max	Resolution
SD86H280-E1KS	6	0.45	3.5	4.5	637	0.65	116	1000CPR
SD86H280-E2K5ZS	6	0.45	3.5	4.5	637	0.65	116	2500CPR
SD86H2120-E1KS	6	0.54	5	8.5	1204	1.2	135	1000CPR
SD86H2120-E2K5ZS	6	0.54	5	8.5	1204	1.2	135	2500CPR
SD86H2160-E1KS	6	0.72	7.3	12.0	1700	1.7	176	1000CPR
SD86H2160-E2K5ZS	6	0.72	7.3	12.0	1700	1.7	176	2500CPR

DIMENSION (UNIT:MM)



ENCODER SPECIFICATIONS

Model	E1Kz	E2K5z
Resolution	1000cpr/4000ppr	2500cpr/10000ppr
Type	Incremental Encoder	
Output Mode	Differential	
Output Signal	A+ A-;B+ B-	A+ A-;B+ B-;Z+Z-
Supply Voltage	5VDC $\pm 5\%$	

TORQUE-FREQUENCY CURVE

