

1.8° Nema 15, Size 39mm High Torque Hybrid Stepping Motor

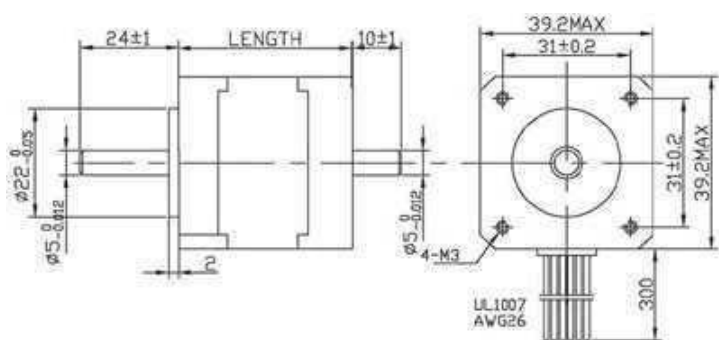
Technique Parameter

Item	Specification
Step Angle Accuracy	±5% (full step,no load)
Resistance Accuracy	±10%
Inductance Accuracy	±20%
Temperature Rise	80℃ Max.(rated current,2 phase on)
Ambient Temperature	-10℃-+50℃
Insulation Resistance	100MΩMin.500VDC
Dielectric Strength	500VAC for one minute
Shaft Radial Play	0.06Max.(450 g-load)
Shaft Axial Play	0.08Max.(450 g-load)

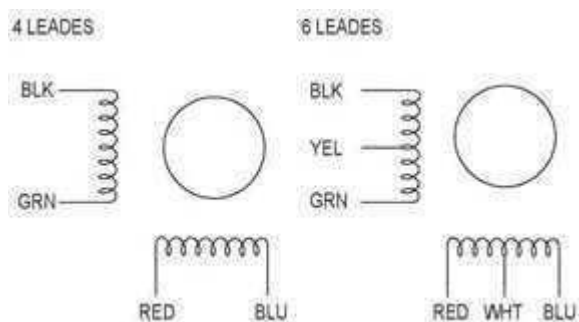
Technique Specification

Model No.		Rated Voltage	Current /Phase	Resistance /Phase	Inductance /Phase	Holding Tprque		#Of Leads	Rotor Inertia	Weight	Length
Single Shaft	Double Shaft	V	A	Ω	mH	Oz-in	g-cm		g-cm2	Kg	mm
SM39HT20-0404A	SM39HT20-0404B	2.64	0.4	6.6	7.5	9	650	4	11	0.12	20
SM39HT20-0506A	SM39HT20-0506B	6.5	0.5	13	7.5	11	800	6			
SM39HT34-0654A	SM39HT34-0654B	4.55	0.65	7	9.3	25	1800	4	20	0.18	34
SM39HT34-0404A	SM39HT34-0404B	12	0.4	30	32	29	2100	4			
SM39HT34-0604A	SM39HT34-0604B	9	0.6	15	16	31	2200	4			
SM39HT34-0306A	SM39HT34-0306B	12	0.3	40	21	18	1300	6			
SM39HT34-0166A	SM39HT34-0166B	12	0.16	75	50	15	1100	6	28	0.2	38
SM39HT38-0504A	SM39HT38-0504B	12	0.5	24	45	40	2900	4			
SM39HT38-0806A	SM39HT38-0806B	6	0.8	7.5	6	28	2000	6	36	0.25	44
SM39HT44-0304A	SM39HT44-0304B	12	0.3	40	100	39	2800	4			

Dimensions



Wiring Diagram





1.8° Nema 17, Size 42mm High Torque Hybrid Stepping Motor

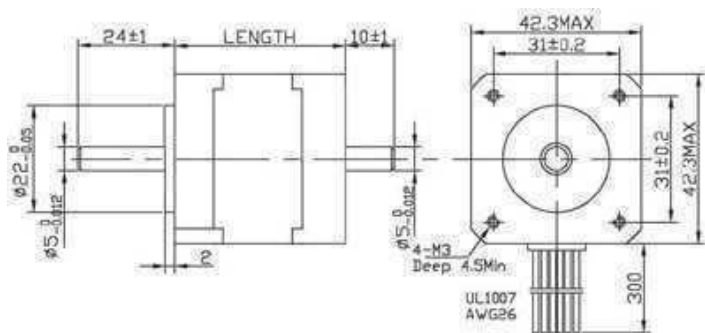
Technique Parameter

Item	Specification
Step Angle Accuracy	±5% (full step,no load)
Resistance Accuracy	±10%
Inductance Accuracy	±20%
Temperature Rise	80℃ Max.(rated current,2 phase on)
Ambient Temperature	-10℃-+50℃
Insulation Resistance	100MΩMin.500VDC
Dielectric Strength	500VAC for one minute
Shaft Radial Play	0.06Max.(450 g-load)
Shaft Axial Play	0.08Max.(450 g-load)

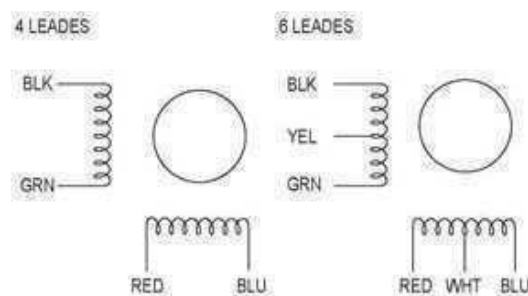
Technique Specification

Model No.		Rated Voltage	Current /Phase	Resistance /Phase	Inductance /Phase	Holding Tprque		#Of Leads	Rotor Inertia	Weight	Length
Single Shaft	Double Shaft	V	A	Ω	mH	Oz-in	g-cm		g-cm2	Kg	mm
SM42HT33-0956A	SM42HT33-0956B	4	0.95	4.2	2.5	22	1580	6	35	0.22	33
SM42HT33-0406A	SM42HT33-0406B	9.6	0.4	24	15						
SM42HT33-0316A	SM42HT33-0316B	12	0.31	38.5	21						
SM42HT33-1334A	SM42HT33-1334B	2.8	1.33	2.1	2.5	30	2200	4	54	0.28	38
SM42HT38-1206A	SM42HT38-1206B	4	1.2	3.3	3.2	36	2590	6			
SM42HT38-0806A	SM42HT38-0806B	6	0.8	7.5	6.7						
SM42HT38-0406A	SM42HT38-0406B	12	0.4	30	30						
SM42HT38-1684A	SM42HT38-1684B	2.8	1.68	1.65	3.2	50	3600	4	68	0.35	47
SM42HT47-1206A	SM42HT47-1206B	4	1.2	3.3	2.8	44	3170	6			
SM42HT47-0806A	SM42HT47-0806B	6	0.8	7.5	6.3						
SM42HT47-0406A	SM42HT47-0406B	12	0.4	30	25						
SM42HT47-1684A	SM42HT47-1684B	2.8	1.68	1.65	2.8	62	4400	4			

Dimensions



Wiring Diagram





0.9° Nema 23, Size 57mm High Torque Hybrid Stepping Motor

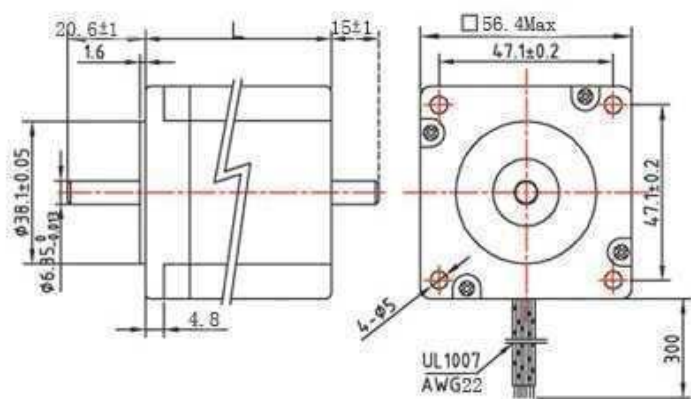
Technique Parameter

Item	Specifications
Step Angle	0.9°
Step Angle Accuracy	±5% (full step, no load)
Resistance Accuracy	±10%
Inductance Accuracy	±20%
Temperature Rise	80℃ Max.(rated current,2 phase on)
Ambient Temperature	-20℃~+50℃
Insulation Resistance	100MΩMin. ,500VDC
Dielectric Strength	500VAC for one minute
Shaft Radial Play	0.02Max. (450 g-load)
Shaft Axial Play	0.08Max. (450 g-load)
Max. radial force	75N (20mm from the flange)
Max. axial force	15N

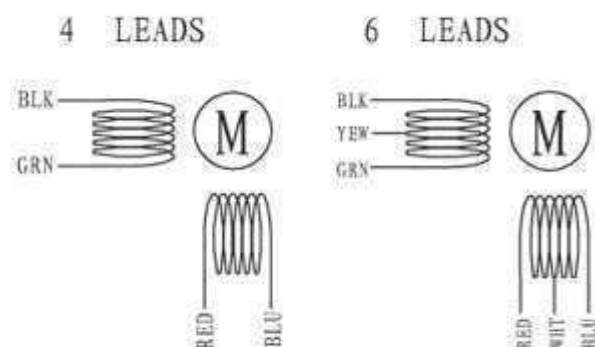
Technique Specification

Model No.		Rated Voltage	Current /Phase	Resistance /Phase	Inductance /Phase	Holding Torque	# of Leads	Rotor Inertia	Weight	Detent Torque	Length
Single Shaft	Double Shaft	V	A	Ω	mH	kg-cm		g-cm2	kg	kg-cm	mm
SM57HT41-1006MA	SM57HT41-1006MB	5.7	1	5.7	8.0	3.9	6	120	0.45	0.21	41
SM57HT41-2006MA	SM57HT41-2006MB	2.8	2	1.4	2.2	3.9	6				
SM57HT41-3006MA	SM57HT41-3006MB	1.9	3	0.63	1.0	3.9	6				
SM57HT41-2804MA	SM57HT41-2804MB	2	2.8	0.7	2.2	5.5	4				
SM57HT56-1006MA	SM57HT56-1006MB	7.4	1	7.4	17.5	9.0	6	300	0.7	0.4	56
SM57HT56-2006MA	SM57HT56-2006MB	3.6	2	1.8	4.5	9.0	6				
SM57HT56-3006MA	SM57HT56-3006MB	2.3	3	0.75	1.9	9.0	6				
SM57HT56-2804MA	SM57HT56-2804MB	2.5	2.8	0.9	4.5	12.0	4				
SM57HT76-1006MA	SM57HT76-1006MB	8.6	1	8.6	23	13.5	6	480	1	0.68	76
SM57HT76-2006MA	SM57HT76-2006MB	4.5	2	2.25	5.6	13.5	6				
SM57HT76-3006MA	SM57HT76-3006MB	3	3	1	2.6	13.5	6				
SM57HT76-2804MA	SM57HT76-2804MB	3.2	2.8	1.13	5.6	18.0	4				

Dimensions



Wiring Diagram





1.8° Nema 23, Size 57mm High Torque Hybrid Stepping Motor

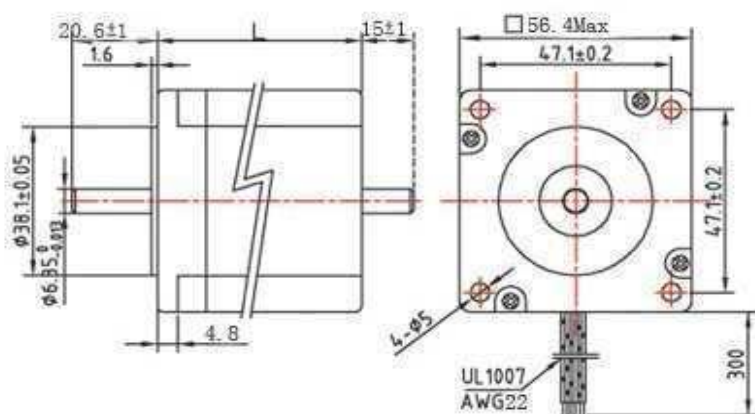
Technique Parameter

Item	Specifications
Step Angle	1.8°
Step Angle Accuracy	±5% (full step, no load)
Resistance Accuracy	±10%
Inductance Accuracy	±20%
Temperature Rise	80°C Max.(rated current,2 phase on)
Ambient Temperature	-20°C~+50°C
Insulation Resistance	100MΩMin. ,500VDC
Dielectric Strength	500VAC for one minute
Shaft Radial Play	0.02Max. (450 g-load)
Shaft Axial Play	0.08Max. (450 g-load)
Max. radial force	75N (20mm from the flange)
Max. axial force	15N

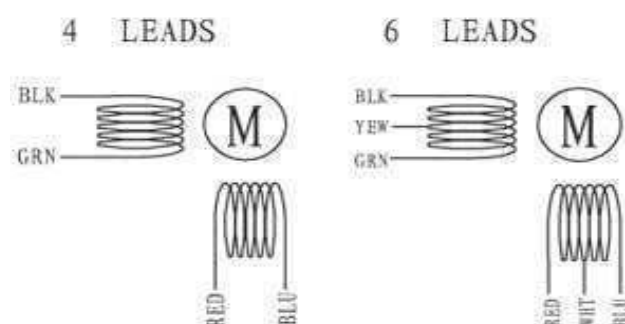
Technique Specification

Model No.		Rated Voltage	Current /Phase	Resistance /Phase	Inductance /Phase	Holding Torque	# of Leads	Rotor Inertia	Weight	Detent Torque	Length
Single Shaft	Double Shaft	V	A	Ω	mH	kg-cm		g-cm2	kg	kg-cm	mm
SM57HT41-1006A	SM57HT41-1006B	5.7	1	5.7	5.4	3.9	6	120	0.45	0.21	41
SM57HT41-2006A	SM57HT41-2006B	2.8	2	1.4	1.4	3.9	6				
SM57HT41-3006A	SM57HT41-3006B	1.9	3	0.63	0.6	3.9	6				
SM57HT41-2804A	SM57HT41-2804B	2	2.8	0.7	1.4	5.5	4				
SM57HT51-1006A	SM57HT51-1006B	6.6	1	6.6	8.2	7.2	6	275	0.65	0.36	51
SM57HT51-2006A	SM57HT51-2006B	3.3	2	1.65	2.2	7.2	6				
SM57HT51-3006A	SM57HT51-3006B	2.2	3	0.74	0.9	7.2	6				
SM57HT51-2804A	SM57HT51-2804B	2.3	2.8	0.83	2.2	10.1	4				
SM57HT56-1006A	SM57HT56-1006B	7.4	1	7.4	10	9.0	6	300	0.7	0.4	56
SM57HT56-2006A	SM57HT56-2006B	3.6	2	1.8	2.5	9.0	6				
SM57HT56-3006A	SM57HT56-3006B	2.3	3	0.75	1.1	9.0	6				
SM57HT56-2804A	SM57HT56-2804B	2.5	2.8	0.9	2.5	12.6	4				
SM57HT76-1006A	SM57HT76-1006B	8.6	1	8.6	14	13.5	6	480	1	0.68	76
SM57HT76-2006A	SM57HT76-2006B	4.5	2	2.25	3.6	13.5	6				
SM57HT76-3006A	SM57HT76-3006B	3	3	1	1.6	13.5	6				
SM57HT76-2804A	SM57HT76-2804B	3.2	2.8	1.13	3.6	18.9	4				

Dimensions



Wiring Diagram





1.8Nema 24, Size 60mm High Torque Hybrid Stepping Motor

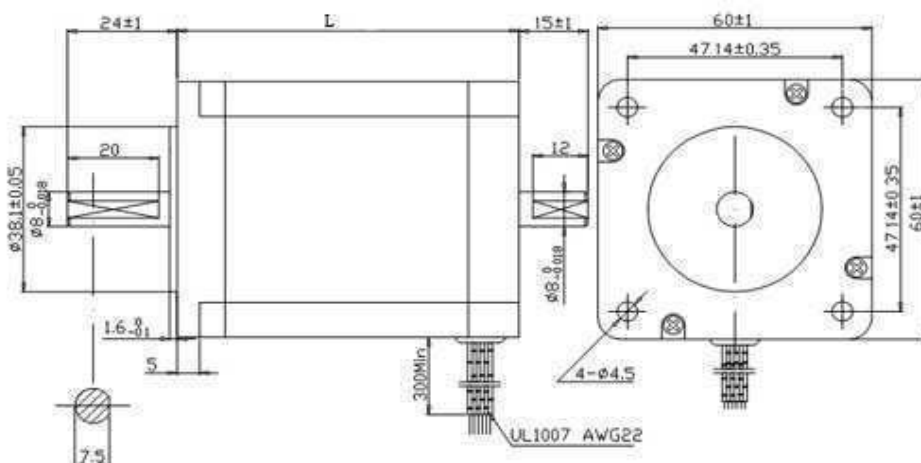
Technique Parameter

Item	Specifications
Step Angle	1.8°
Step Angle Accuracy	±5% (full step, no load)
Resistance Accuracy	±10%
Inductance Accuracy	±20%
Temperature Rise	80°C Max.(rated current,2 phase on)
Ambient Temperature	-20°C~+50°C
Insulation Resistance	100MΩMin. ,500VDC
Dielectric Strength	500VAC for one minute
Shaft Radial Play	0.02Max. (450 g-load)
Shaft Axial Play	0.08Max. (450 g-load)
Max. radial force	75N (20mm from the flange)
Max. axial force	15N

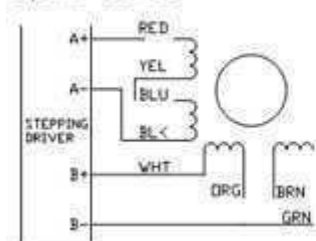
Technique Specification

Model No.			Rated Voltage	Current /Phase	Resistance /Phase	Inductance /Phase	Holding Torque	# of leads	Rotor inertia	Weight	Detent torque	Length
Single Shaft	Double Shaft		V	A	Ω	mH	kg-cm		g-cm2	kg	kg-cm	mm
SM60HT45-2008AF	SM60HT45-2008BF	unipolar	3	2	1.5	2	7.8	8	275	0.6	0.5	47
		parallel	2.1	2.8	0.75	2	11					
		series	4.2	1.4	3.0	8	11					
SM60HT56-2008AF	SM60HT56-2008BF	unipolar	3.6	2	1.8	3.6	11.7	8	300	0.77	0.7	56
		parallel	2.52	2.8	0.9	3.6	16.5					
		series	5.04	1.4	3.6	14.4	16.5					
SM60HT65-2008AF	SM60HT65-2008BF	unipolar	4.8	2	2.4	4.6	15	8	570	1.2	0.9	67
		parallel	3.36	2.8	1.2	4.6	21					
		series	6.72	1.4	4.8	18.4	21					
SM60HT86-2008AF	SM60HT86-2008BF	unipolar	6	2	3	6.8	22	8	840	1.4	1.0	88
		parallel	4.17	2.8	1.5	6.8	31					
		series	8.4	1.4	6	27.2	31					

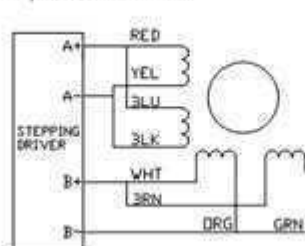
Dimension



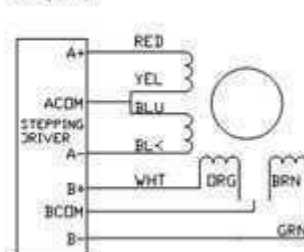
Bipolar Series



Bipolar Parallel



Unipolar



Wiring Diagram



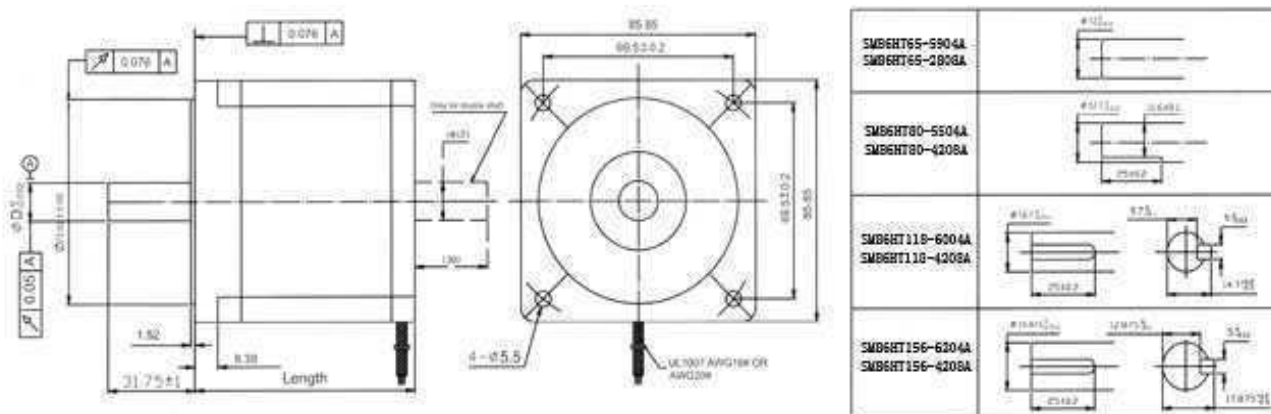
1.8° Nema 34, Size 86mm High Torque Hybrid Stepping Motor

Technique Parameter

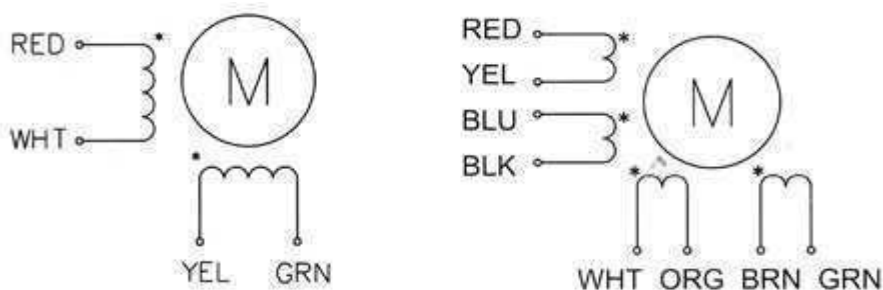
Item	Specifications
Step Angle	1.8°
Step Angle Accuracy	±5% (full step, no load)
Resistance Accuracy	±10%
Inductance Accuracy	±20%
Temperature Rise	80°C Max.(rated current,2 phase on)
Ambient Temperature	-20°C ~+50°C
Insulation Resistance	100MQMin. ,500VDC
Dielectric Strength	820VAC , 1s , 3mA
Shaft Radial Play	0.02Max. (450 g-load)
Shaft Axial Play	0.08Max. (450 g-load)
Max. radial force	220N (20mm from the flange)
Max. axial force	60N

Technique Specification

Model No.		Rated Current		Resistan	Inductan	Holding	# of	Rotor	Weig	Detent	Leng
		Voltage/Phase		ce	ce	Torque	Leads	Inerti	ht	Torque	th
Single Shaft	Double Shaft	V	A	Ω	mH	Kg.cm	#	a	kg	kg-cm	mm
SM86HT65-5904A	SM86HT65-5904B	5,5	5.9	0.28	1.7	34	4	1000	1.7	0.8	65
SM86HT65-2808A	SM86HT65-2808B	6,3	2.8	1.4	3.9	34	8				
SM86HT80-5504A	SM86HT80-5504B	6,0	5.5	0.46	4	46	4	1400	2.3	1.2	80
SM86HT80-4208A	SM86HT80-4208B	3,0	4.24	0.75	3.4	46	8				
SM86HT118-6004A	SM86HT118-6004B	5,3	6	0.6	6.5	87	4	2700	3.8	2.4	118
SM86HT118-4208A	SM86HT118-4208B	6,2	4.2	0.9	6	87	8				
SM86HT156-6204A	SM86HT156-6204B	3,5	6.2	0.75	9	122	4	4000	5.4	3.6	156
SM86HT156-4208A	SM86HT156-4208B	3,0	4.2	1.25	8	122	8				



Dimension WIRE DIAGRAM





1.8°Nema 43, Size 110mm High Torque Hybrid Stepping Motor

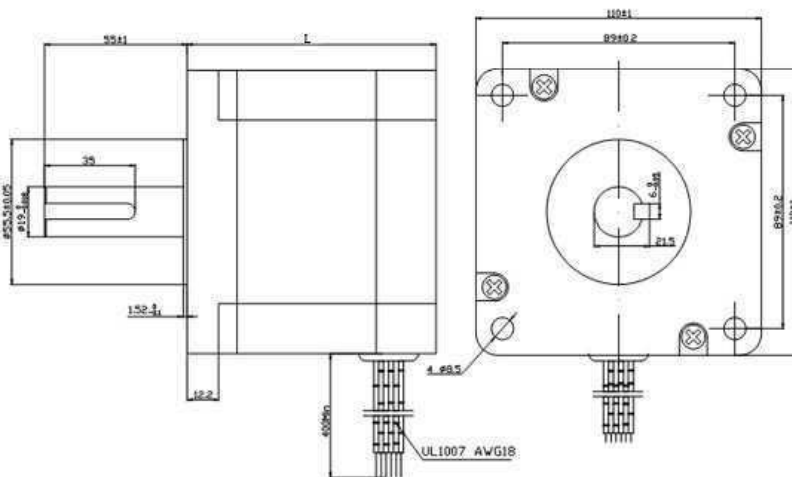
Technique Parameter

Item	Specifications
Step Angle	1.8°
Step Angle Accuracy	±5% (full step, no load)
Resistance Accuracy	±10%
Inductance Accuracy	±20%
Temperature Rise	80℃ Max.(rated current,2 phase on)
Ambient Temperature	-20℃ ~+50℃
Insulation Resistance	100MΩMin. ,500VDC
Dielectric Strength	1800VAC , 1s , 5mA
Shaft Radial Play	0.02Max. (450 g-load)
Shaft Axial Play	0.08Max. (450 g-load)
Max. radial force	220N (20mm from the flange)
Max. axial force	60N

Technique Specification

Model No.	Rated Voltage	Current /Phase	Resistance /Phase	Inductance /Phase	Holding Torque	# of Leads	Rotor Inertia	Weight	Detent Torque	Length
	V	A	Ω	mH	N.m	#	g-cm ²	kg	kg-cm	mm
Single shaft										
SM110HT99-5504A	3,2	5.5	0.9	12	11.2	4	5500	5	3	99
SM110HT150-6504A	3,9	6.5	0.8	15	21	4	10900	8.4	5.9	150
SM110HT201-8004A	4,0	8	0.67	12	28	4	16200	11.7	7.5	201

Dimension



Wire Diagram

