

Stegmotorer, fabrikat Nippon Pulse

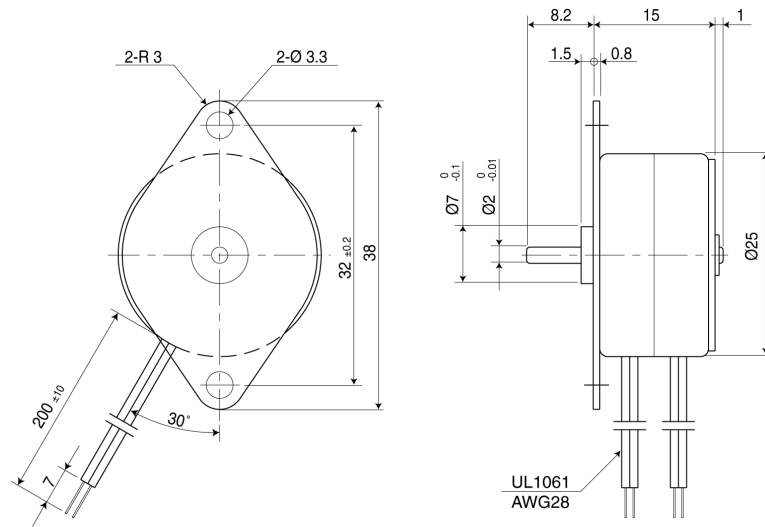
Finns även med kuggväxel - kontakta oss för info

PF25-24 / PF25-48

Parameters	Unit	PF25-24				PF25-48			
		Unipolar		Bipolar		Unipolar		Bipolar	
Drive Mode		Unipolar		Bipolar		Unipolar		Bipolar	
Excitation Mode		Full-step (2-2 ex)				Full-step (2-2 ex)			
Step Angle	°	15				7.5			
Step Angle Tolerance	%	± 5				± 5			
Steps per Revolution		24				48			
Voltage	V	12	5	12	5	12	5	12	5
Winding Resistance	W/Ø	120	16	122	15	120	16	122	15
Winding Inductance	mH/Ø	34	4.5	66	8	39	5.5	81	10
Holding Torque	mNm	8	8	9	9	10	10	11	11
Rotor Inertia	gcm • s ²	1.0 x 10 ⁻³				1.0 x 10 ⁻³			
Starting Pulse Rate, Max	pps	490				790			
Slewing Pulse Rate, Max	pps	900				900			
Ambient Temp. Range, Operating	°C	-10 ~ + 50				-10 ~ + 50			
Temperature rise	K	70				70			
Weight	g	35.0				35.0			

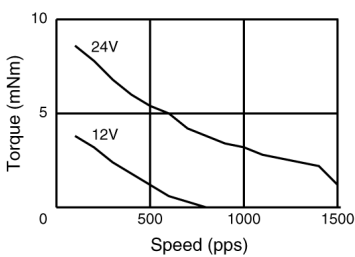
Note: Above data is based on Rated Voltage Drive. The magnet type is Anisotropic.

Outline Dimension Drawing

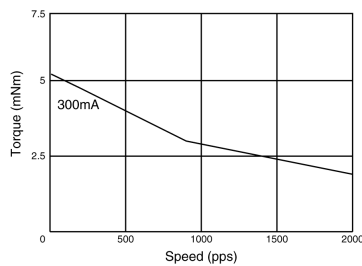


Dimensions in MM. Inches = MM*0.04

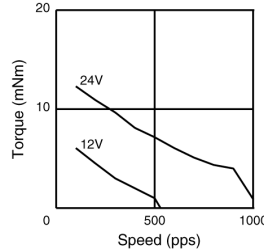
PF25-24C1 Unipolar Rated / Double Voltage Drive



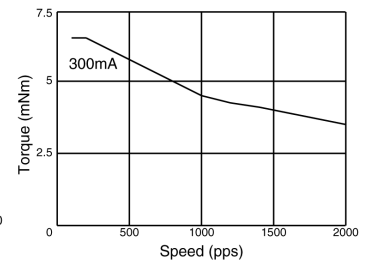
PF25-24D1 Unipolar Chopper Drive at 24V



PF25-24P1 Bipolar Rated/Double Voltage Drive



PF25-24Q1 Bipolar Chopper Drive at 24V



Torque Curve Note: 1 mN-m = 0.14 oz-in

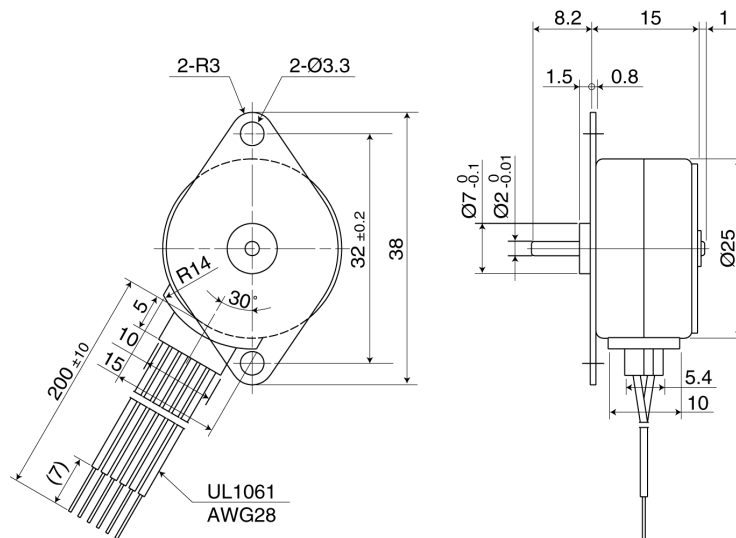
MOTORS

PFC25-24 / PFC25-48

Parameters	Unit	PFC25-24				PFC25-48			
		Unipolar		Bipolar		Unipolar		Bipolar	
Drive mode		Unipolar		Bipolar		Unipolar		Bipolar	
Excitation Mode		Full-step (2-2 ex)				Full-step (2-2 ex)			
Step Angle	°	15				7.5			
Step Angle Tolerance	%	± 5				± 5			
Steps per Revolution		24				48			
Voltage	V	12	5	12	5	12	5	12	5
Winding Resistance	W/Ø	120	16	122	15	120	16	122	15
Winding Inductance	mH/Ø	34	4.5	66	8	39	5.5	81	10
Holding Torque	mNm	8	8	9	9	10	10	11	11
Rotor Inertia	gcm •s ²	1.0 x 10 ⁻³				1.0 x 10 ⁻³			
Starting Pulse Rate, Max	pps	490				790			
Slewing Pulse Rate, Max	pps	900				900			
Ambient Temp. Range, Operating	°C	-10 ~ + 50				-10 ~ + 50			
Temperature rise	K	70				70			
Weight	g	35.0				35.0			

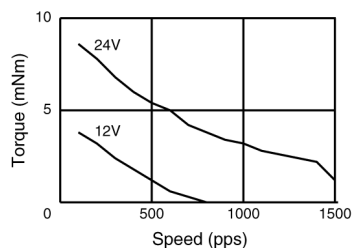
Note: Above data is based on Rated Voltage Drive. The magnet type is Anisotropic.

Outline Dimension Drawing

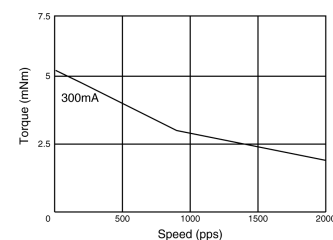


Dimensions in MM. Inches = MM*0.04

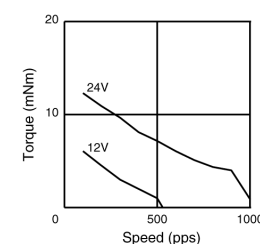
PFC25-24C1 Unipolar Rated / Double Voltage Drive



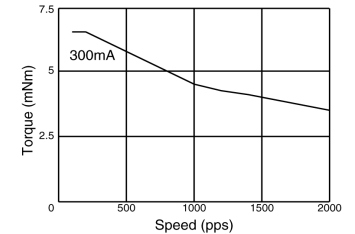
PFC25-24D1 Unipolar Chopper Drive at 24V



PFC25-24P1 Bipolar Rated/Double Voltage Drive



PFC25-24Q1 Bipolar Chopper Drive at 24V

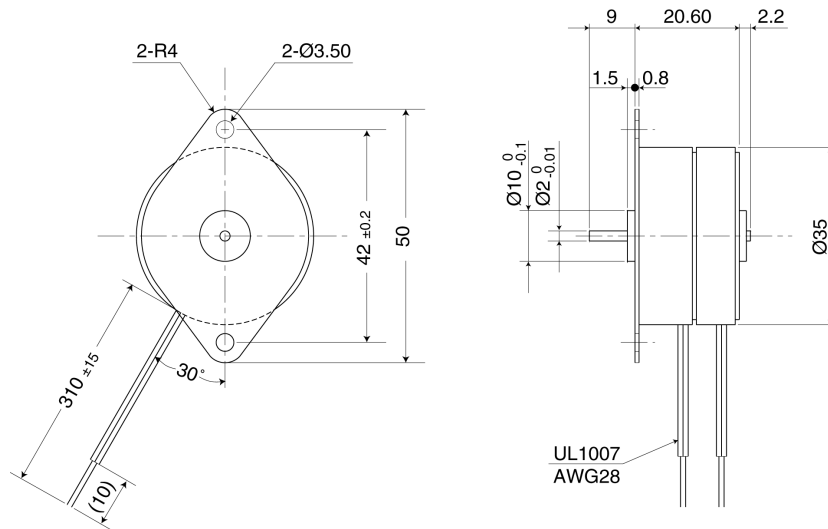


Torque Curve Note: 1 mN-m = 0.14 oz-in

Parameters	Unit	PF35-24				PF35-48			
Drive mode		Unipolar		Bipolar		Unipolar		Bipolar	
Excitation Mode		Full-step (2-2 ex)				Full-step (2-2 ex)			
Step Angle	°	15				7.5			
Step Angle Tolerance	%	± 5				± 5			
Steps per Revolution		24				48			
Voltage	V	12	5	12	5	12	5	12	5
Winding Resistance	Ω/Ø	90	16	100	17	90	16	100	17
Winding Inductance	mH/Ø	48	8.9	95	14	48	8.9	124	19
Holding Torque	mNm	15	15	19	19	20	20	25	25
Rotor Inertia	gcm • s ²	4.5 x 10 ⁻³				4.5 x 10 ⁻³			
Starting Pulse Rate, Max	pps	310				500			
Slewing Pulse Rate, Max	pps	410				530			
Ambient Temp. Range, Operating	°C	-10 ~ + 50				-10 ~ + 50			
Temperature rise	K	55				55			
Weight	g	80.0				80.0			

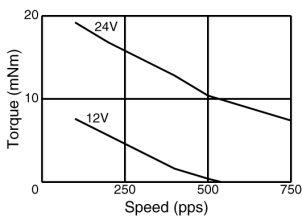
Note: Above data is based on Rated Voltage Drive. The magnet type is Anisotropic.

Outline Dimension Drawing

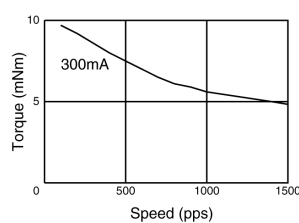


Dimensions in MM. Inches = MM*0.04

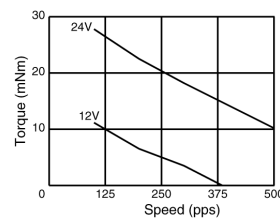
PF35-24C1 Unipolar Rated / Double Voltage Drive



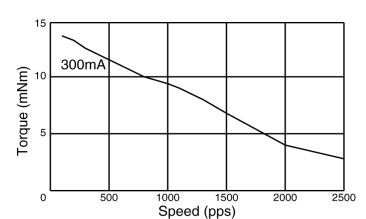
PF35-24D1 Unipolar Chopper Drive at 24V



PF35-24P1 Bipolar Rated/Double Voltage Drive



PF35-24Q1 Bipolar Chopper Drive at 24V



Torque Curve Note: 1 mN-m = 0.14 oz-in

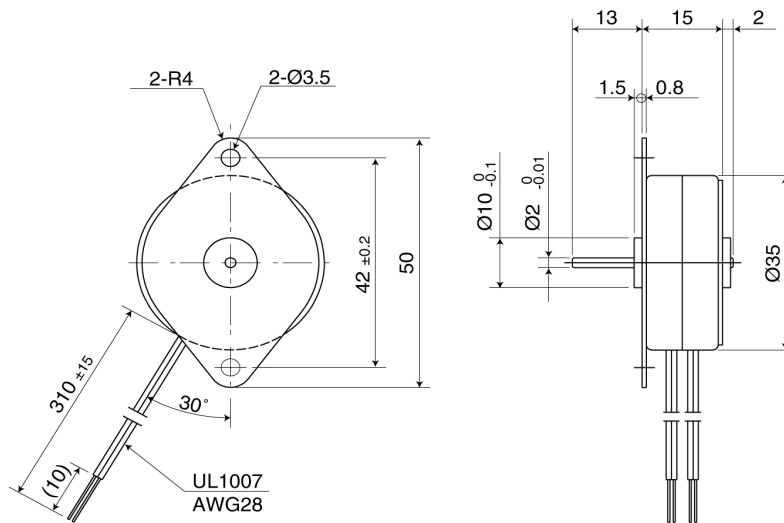
MOTORS

PF35T-48

Parameters	Unit	PF35T-48			
		Unipolar		Bipolar	
Drive mode		Unipolar		Bipolar	
Excitation Mode		Full-step (2-2 ex)			
Step Angle	°	7.5			
Step Angle Tolerance	%	± 5			
Steps per Revolution		48			
Voltage	V	12	5	12	5
Winding Resistance	Ω/Ø	70	12	72	16
Winding Inductance	mH/Ø	36	6.5	60	6.2
Holding Torque	mNm	20	20	27	27
Rotor Inertia	gcm•s ²	2.7 x 10 ⁻³			
Starting Pulse Rate, Max	pps	600			
Slewing Pulse Rate, Max	pps	610			
Ambient Temp. Range, Operating	°C	-10 ~ + 50			
Temperature rise	K	70			
Weight	g	77.0			

Note: Above data is based on Rated Voltage Drive. The magnet type is Anisotropic.

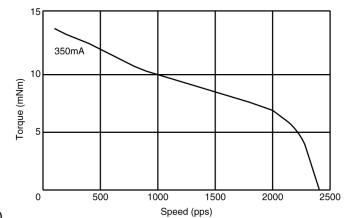
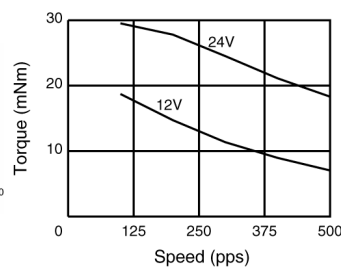
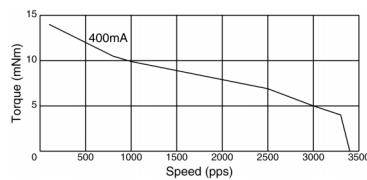
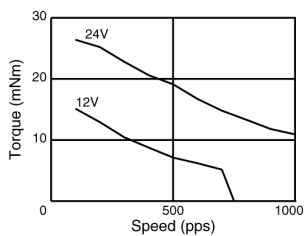
Outline Dimension Drawing



Dimensions in MM. Inches = MM*0.04

PF35T-48C1 Unipolar Rated / Double Voltage Drive PF35T-48D1 Unipolar Chopper Drive at 24V

PF35T-48R1 Bipolar Rated/Double Voltage Drive PF35T-48Q1 Bipolar Chopper Drive at 24V

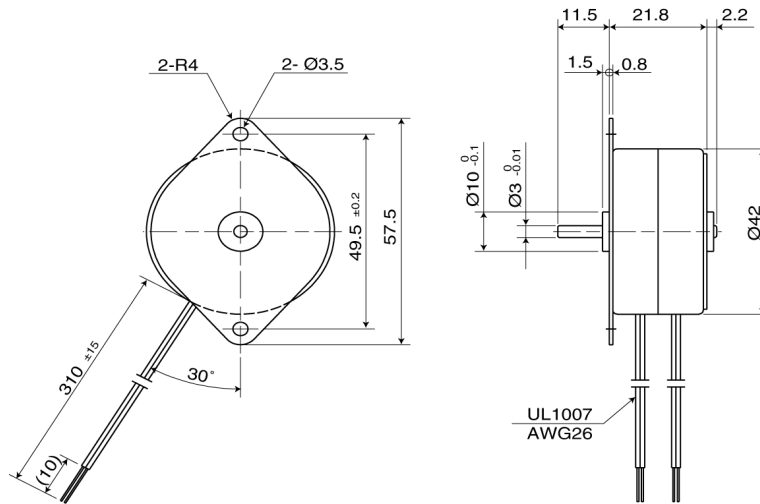


Torque Curve Note: 1 mN-m = 0.14 oz-in

Parameters	Unit	PF42-24				PF42-48			
		Unipolar		Bipolar		Unipolar		Bipolar	
Drive mode		Unipolar		Bipolar		Unipolar		Bipolar	
Excitation Mode		Full-step (2-2 ex)				Full-step (2-2 ex)			
Step Angle	°	15				7.5			
Step Angle Tolerance	%	± 5				± 5			
Steps per Revolution		24				48			
Voltage	V	12	5	12	5	12	5	12	5
Winding Resistance	W/Ø	70	12	76	14	70	12	76	14
Winding Inductance	mH/Ø	43	7.2	74	14	54	9.1	87	16
Holding Torque	mNm	30	30	41	41	45	45	54	54
Rotor Inertia	gcm•s ²	16.8 x 10 ⁻³				12.8 x 10 ⁻³			
Starting Pulse Rate, Max	pps	240				310			
Slewing Pulse Rate, Max	pps	350				320			
Ambient Temp. Range, Operating	°C	-10 ~ + 50				-10 ~ + 50			
Temperature rise	K	55				55			
Weight	g	160.0				160.0			

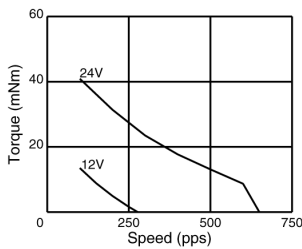
Note: Above data is based on Rated Voltage Drive. The magnet type is Anisotropic.

Outline Dimension Drawing

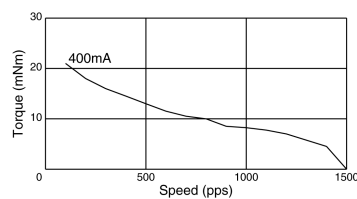


Dimensions in MM. Inches = MM*0.04

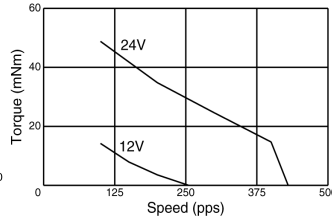
PF42-24C1 Unipolar Rated / Double Voltage Drive



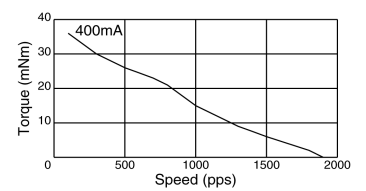
PF42-24D1 Unipolar Chopper Drive at 24V



PF42-24P1 Bipolar Rated/Double Voltage Drive



PF42-24Q1 Bipolar Chopper Drive at 24V



Torque Curve Note: 1 mN-m = 0.14 oz-in

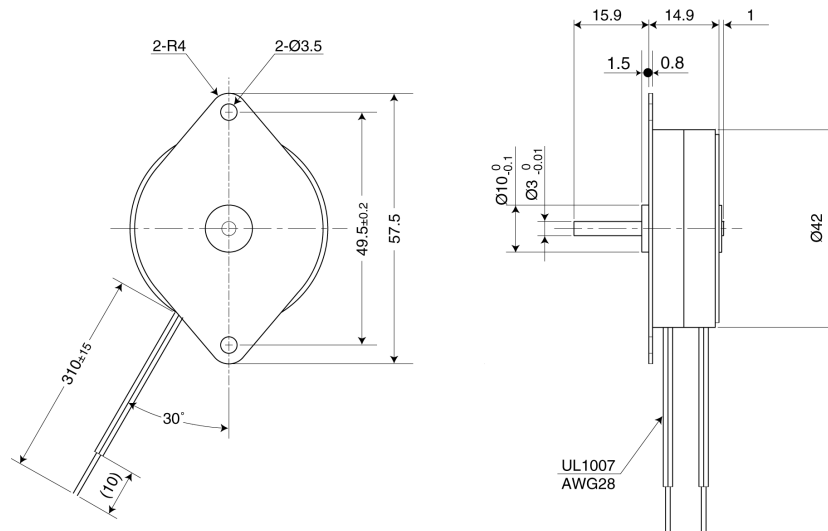
MOTORS

PF42T-48 / PF42T-96

Parameters	Unit	PF42T-48				PF42T-96			
		Unipolar		Bipolar		Unipolar		Bipolar	
Drive mode		Unipolar		Bipolar		Unipolar		Bipolar	
Excitation Mode		Full-step (2-2 ex)				Full-step (2-2 ex)			
Step Angle	°	7.5				3.75			
Step Angle Tolerance	%	± 5				± 5			
Steps per Revolution		48				96			
Voltage	V	12	5	12	5	12	5	12	5
Winding Resistance	Ω	60	9.5	64	12	60	95	64	12
Winding Inductance	mH	35	5.6	50	16	25	4	51	17
Holding Torque	mNm	34	34	42	42	36	36	49	49
Rotor Inertia	gcm ²	14.3 x 10 ⁻³				14.3 x 10 ⁻³			
Starting Pulse Rate, Max	pps	380				540			
Slewing Pulse Rate, Max	pps	520				590			
Ambient Temp. Range, Operating	°C	-10 ~ + 50				-10 ~ + 50			
Temperature rise	K	70				70			
Weight	g	110.0				110.0			

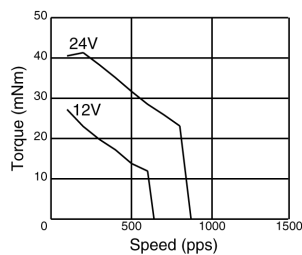
Note: Above data is based on Rated Voltage Drive. The magnet type is Anisotropic.

Outline Dimension Drawing

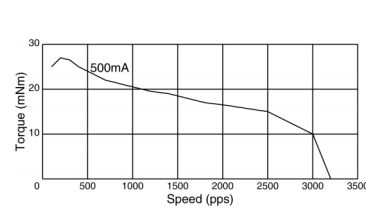


Dimensions in MM. Inches = MM*0.04

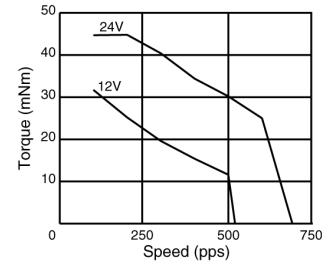
PF42T-96C1 Unipolar Rated / Double Voltage Drive



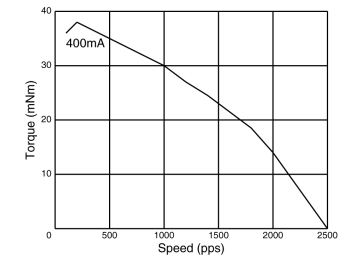
PF42T-96D1 Unipolar Chopper Drive at 24V



PF42T-96P1 Bipolar Rated / Double Voltage Drive



PF42T-96Q1 Bipolar Chopper Drive at 24V

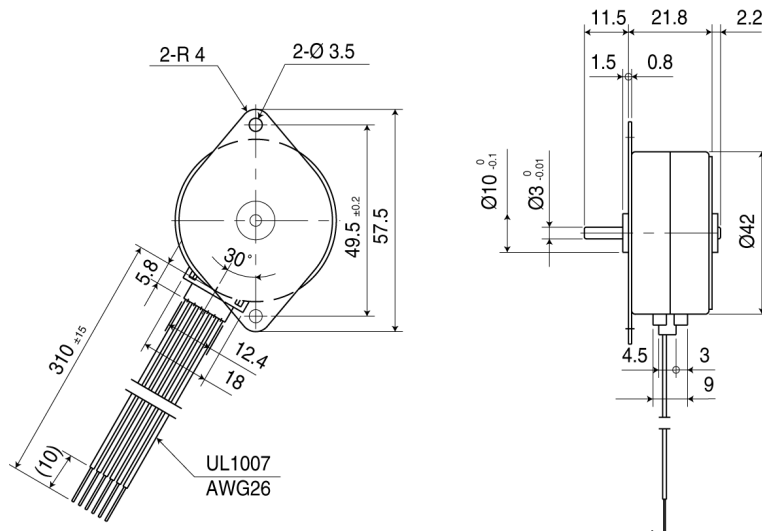


Torque Curve Note: 1 mN-m = 0.14 oz-in

Parameters	Unit	PFC42H-48			
Drive mode		Unipolar		Bipolar	
Excitation Mode		Full-step (2-2 ex)			
Step Angle	°	7.5			
Step Angle Tolerance	%	± 5			
Steps per Revolution		48			
Voltage	V	12	5	12	5
Winding Resistance	Ω/Ø	70	12	70	12
Winding Inductance	mH/Ø	39	6.6	80	13
Holding Torque	mNm	40	40	60	60
Rotor Inertia	gcm • s ²	14.0 x 10 ⁻³			
Starting Pulse Rate, Max	pps	360			
Slewing Pulse Rate, Max	pps	380			
Ambient Temp. Range, Operating	°C	-10 ~ + 50			
Temperature rise	K	55			
Weight	g	160.0			

Note: Above data is based on Rated Voltage Drive. The magnet type is Anisotropic.

Outline Dimension Drawing



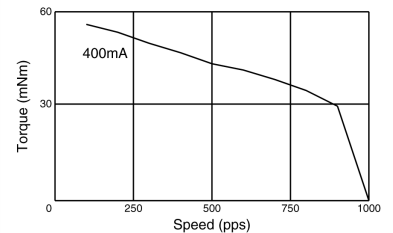
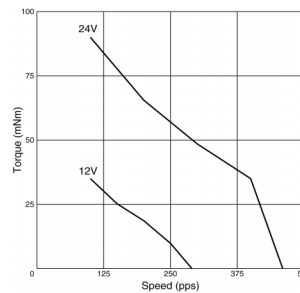
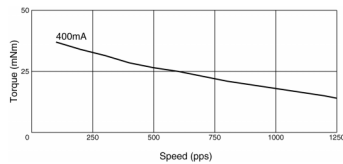
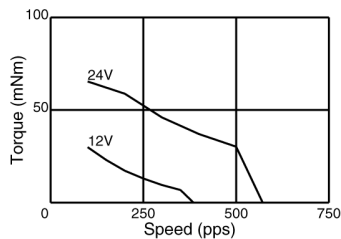
Dimensions in MM. Inches = MM*0.04

PFC42H-48C1 Unipolar Rated / Double Voltage Drive

PFC42H-48D1 Unipolar Chopper Drive at 24V

PFC42H-48P1 Bipolar Rated / Double Voltage Drive

PFC42H-48Q1 Bipolar Chopper Drive at 24V



Torque Curve Note: 1 mN-m = 0.14 oz-in

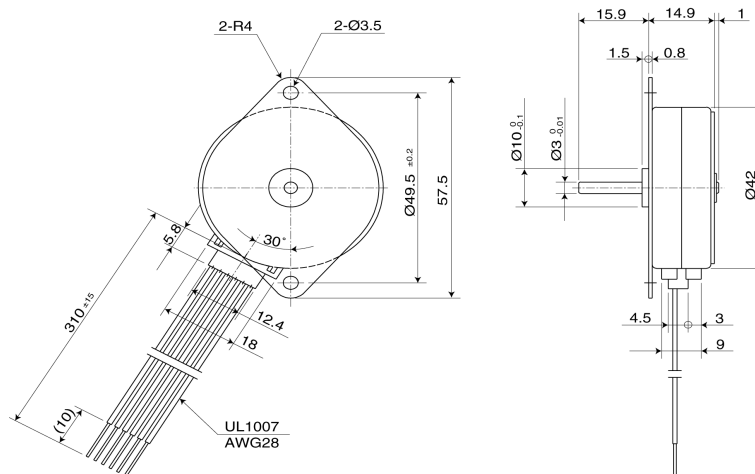
MOTORS

PFC42T-48

Parameters	Unit	PFC42T-48			
Drive mode		Unipolar		Bipolar	
Excitation Mode		Full-step (2-2 ex)			
Step Angle	°	7.5			
Step Angle Tolerance	%	± 5			
Steps per Revolution		48			
Voltage	V	12	5	12	5
Winding Resistance	W/Ø	60	9.5	64	12
Winding Inductance	mH/Ø	35	5.6	50	16
Holding Torque	mNm	34	34	42	42
Rotor Inertia	gcm • s ²	14.3 x 10 ⁻³			
Starting Pulse Rate, Max	pps	380			
Slewing Pulse Rate, Max	pps	520			
Ambient Temp. Range, Operating	°C	-10 ~ + 50			
Temperature rise	K	70			
Weight	g	110.0			

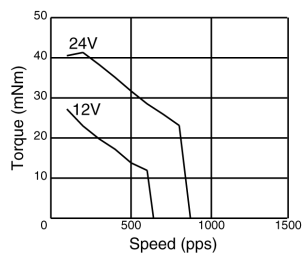
Note: Above data is based on Rated Voltage Drive. The magnet type is Anisotropic.

Outline Dimension Drawing

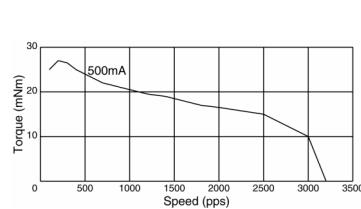


Dimensions in MM. Inches = MM*0.04

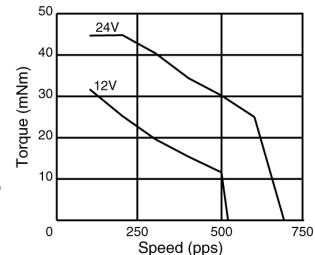
PFC42T-96C1 Unipolar Rated / Double Voltage Drive



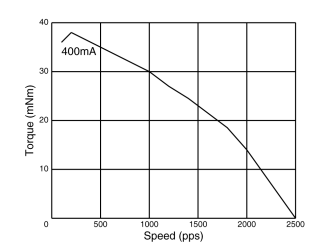
PFC42T-96D1 Unipolar Chopper Drive at 24V



PFC42T-96Q1 Rated / Double Voltage Drive



PFC42T-96Q1 Bipolar Chopper Drive at 24V

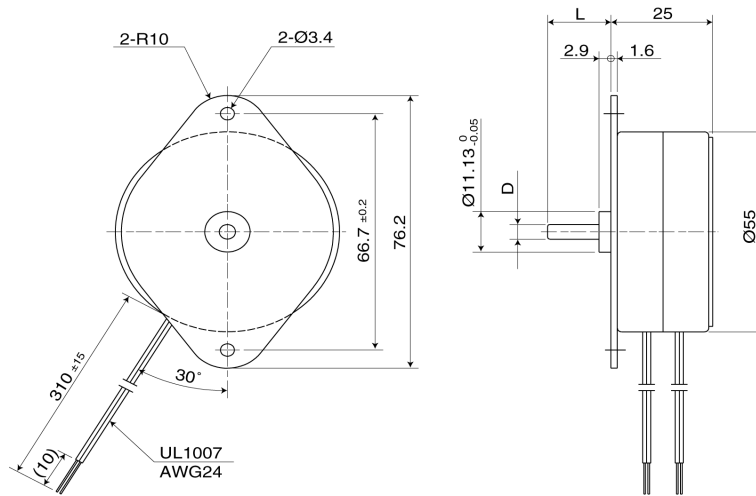


Torque Curve Note: 1 mN-m = 0.14 oz-in

Parameters	Unit	PF55-48			
Drive mode		Unipolar		Bipolar	
Excitation Mode		Full-step (2-2 ex)			
Step Angle	°	7.5			
Step Angle Tolerance	%	± 5			
Steps per Revolution		48			
Voltage	V	12	5	12	5
Winding Resistance	W/Ø	36	5	40	6.75
Winding Inductance	mH/Ø	43	5.9	84	12
Holding Torque	mNm	120	120	150	150
Rotor Inertia	gcm • s ²	40.0 x 10 ⁻³			
Starting Pulse Rate, Max	pps	300			
Slewing Pulse Rate, Max	pps	310			
Ambient Temp. Range, Operating	°C	-10 ~ + 50			
Temperature rise	K	55			
Weight	g	300.0			

Note: Above data is based on Rated Voltage Drive. The magnet type is Anisotropic.

Outline Dimension Drawing



	D	L
Option 1	Ø4 ⁰ _{-0.01}	15.5
Option 2	Ø6.345 ⁰ _{-0.01}	18.5

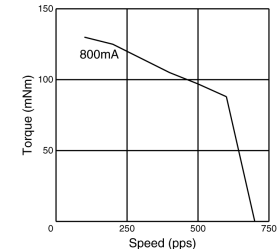
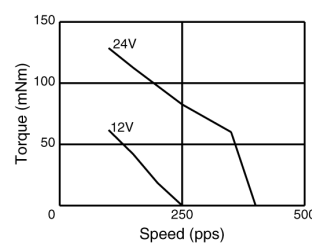
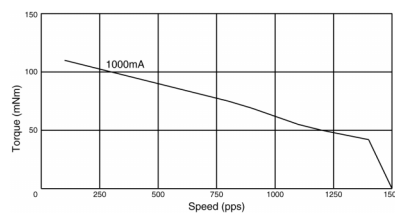
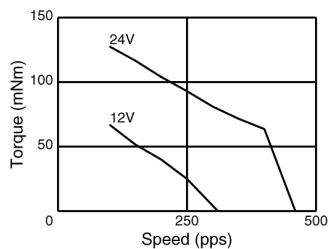
Dimensions in MM. Inches = MM*0.04

PF55-48C1 Unipolar Rated / Double Voltage Drive

PF55-48D1 Unipolar Chopper Drive at 24V

PF55-48P1 Bipolar Rated / Double Voltage Drive

PF55-48Q1 Bipolar Chopper Drive at 24V



Torque Curve Note: 1 mN-m = 0.14 oz-in

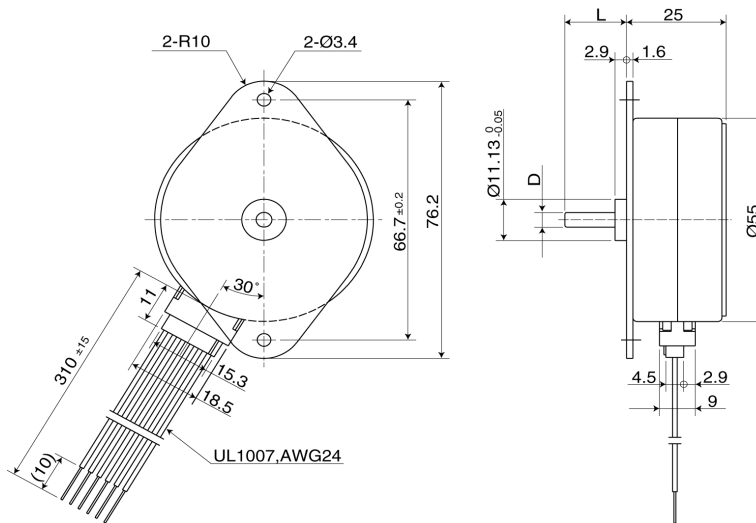
MOTORS

PFC55-48

Parameters	Unit	PFC55-48			
		Unipolar		Bipolar	
Drive mode		Unipolar		Bipolar	
Excitation Mode		Full-step (2-2 ex)			
Step Angle	°	7.5			
Step Angle Tolerance	%	± 5			
Steps per Revolution		48			
Voltage	V	12	5	12	5
Winding Resistance	W/Ø	36	5	40	6.75
Winding Inductance	mH/Ø	43	5.9	84	12
Holding Torque	mNm	120	120	150	150
Rotor Inertia	gcm • s ²	40.0 x10 ⁻³			
Starting Pulse Rate, Max	pps	300			
Slewing Pulse Rate, Max	pps	310			
Ambient Temp. Range, Operating	°C	-10 ~ + 50			
Temperature rise	K	55			
Weight	g	300.0			

Note: Above data is based on Rated Voltage Drive. The magnet type is Anisotropic.

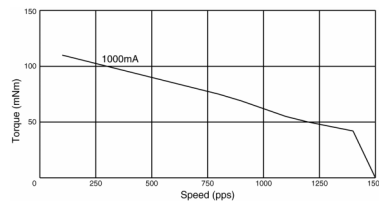
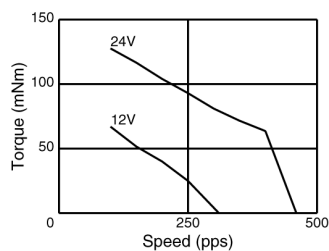
Outline Dimension Drawing



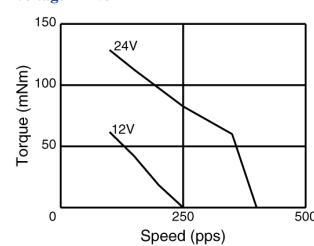
	D	L
Option 1	Ø4 ⁰ _{-0.01}	15.5
Option 2	Ø6.345 ⁰ _{-0.01}	18.5

Dimensions in MM. Inches = MM*0.04

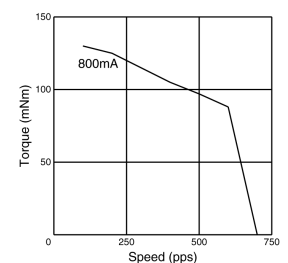
PFC55-48C1 Unipolar Rated / Double Voltage Drive PFC55-48D1 Unipolar Chopper Drive at 24V



PFC55-48P1 Bipolar Rated / Double Voltage Drive



PFC55-48Q1 Bipolar Chopper Drive at 24V

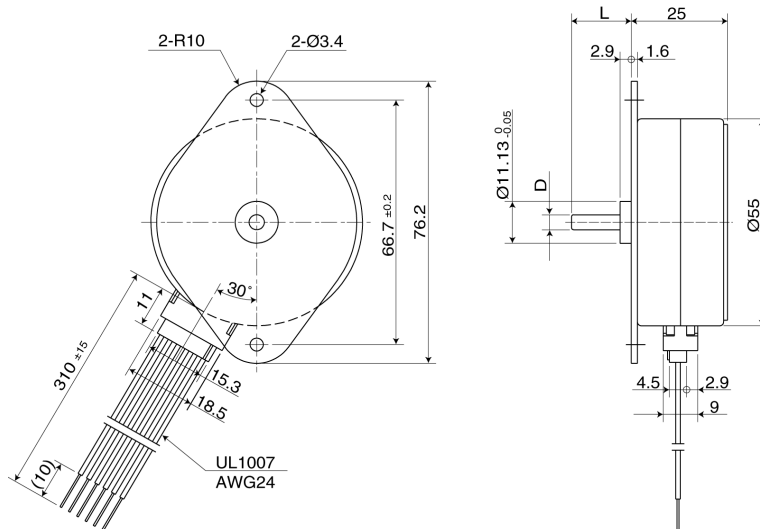


Torque Curve Note: 1 mN-m = 0.14 oz-in

Parameters	Unit	PFC55H-48			
Drive mode		Unipolar		Bipolar	
Excitation Mode		Full-step (2-2 ex)			
Step Angle	°	7.5			
Step Angle Tolerance	%	± 5			
Steps per Revolution		48			
Voltage	V	12	5	12	5
Winding Resistance	W/Ø	36	5	40	8
Winding Inductance	mH/Ø	30	4.4	66	16
Holding Torque	mNm	120	120	170	170
Rotor Inertia	gcm • s ²	57.0 x10 ⁻³			
Starting Pulse Rate, Max	pps	270			
Slewing Pulse Rate, Max	pps	280			
Ambient Temp. Range, Operating	°C	-10 ~ + 50			
Temperature rise	K	55			
Weight	g	300.0			

Note: Above data is based on Rated Voltage Drive. The magnet type is Anisotropic.

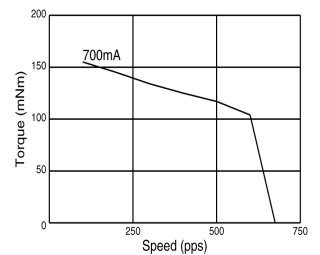
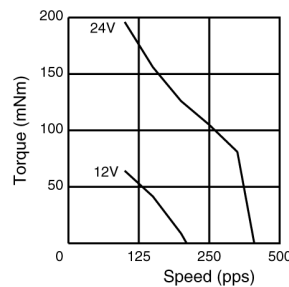
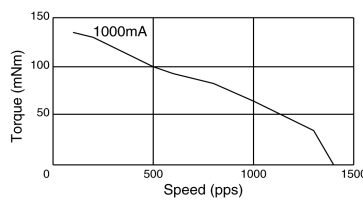
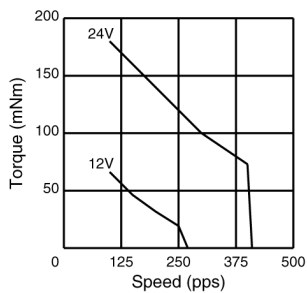
Outline Dimension Drawing



	D	L
Option 1	Ø4 ⁰ _{-0.01}	15.5
Option 2	Ø6.345 ⁰ _{-0.01}	18.5

Dimensions in MM. Inches = MM*0.04

PFC55H-48C1 Unipolar Rated / Double Voltage Drive PFC55H-48D1 Unipolar Chopper Drive at 24V PFC55H-48X1 Bipolar Rated / Double Voltage Drive PFC55H-48S1 Bipolar Chopper Drive at 24V



Torque Curve Note: 1 mN-m = 0.14 oz-in