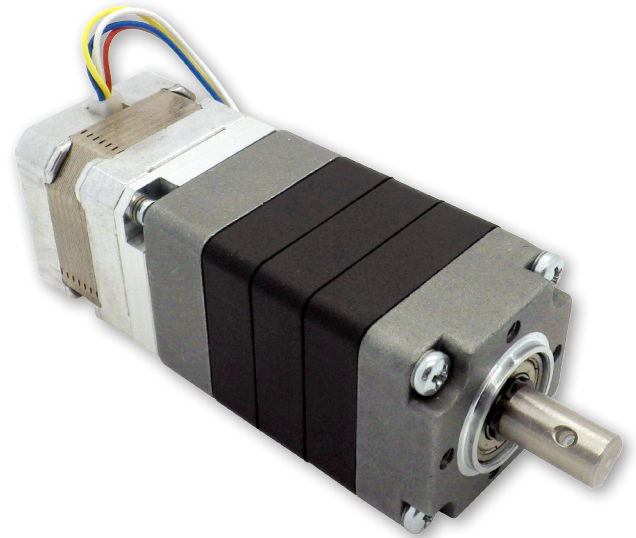


### PG42-17H series Planetary Geared Hybrid Stepper

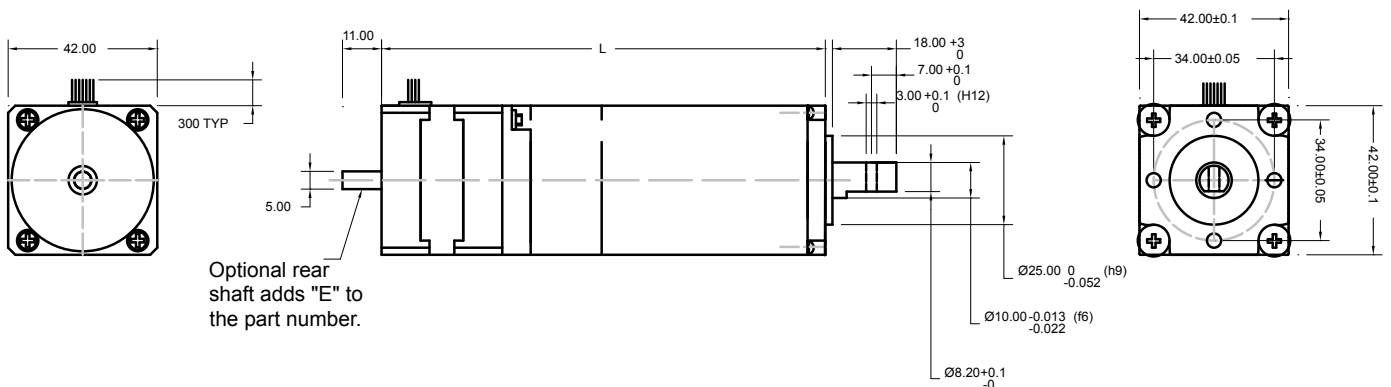
The PG42/17HS series of geared hybrid stepper motors, provides an excellent combination of performance and reliable operation. There is a choice of gear ratios, which allows you to choose a resolution/speed and torque to suit your application.

#### Features:

- Low cost due to advanced design and manufacturing techniques.
- Wide range of motor options including encoder feedback.
- High continuous and peak torque capability.
- Wide range of gear ratios.
- Radial shaft load: < 300N (10mm from fixing flange)
- Axial shaft load: < 150N
- A wide range of matched drives and controls available.



#### Outline dimensions (mm)



#### Motor wiring - Bi-polar

Phase	Wire Colour
1	White
1	Yellow
2	Red
2	Blue

#### Motor wiring - 8 Lead Universal

Phase	Wire Colour
1	Orange
1'	Orange/White
2'	Black/White
2	Black
3	Red
3'	Red/White
4'	Yellow/White
4	Yellow



## PG42-XX/17HS020(E) Planetary Geared Stepper Motor

### 17HS020(E) motor specifications

Resistance per phase	Ohm	5.6
Current per phase	A	1
Inductance per phase	mH	8.5
Number of leads		4

### PG42-XX/17HS020(E) series Planetary Geared Stepper Motor specification and part numbers

Part Number	Ratio	Length L (mm)	Contiunous output torque @ 500 ½ steps per sec. Ncm	Maximum Peak Torque Ncm	Mass kg	Efficiency %
PG42-M01-4/17HS020(E)	4	87.5	29	150	0.55	95
PG42-M01-6/17HS020(E)	6.25	87.5	42.75	150	0.55	95
PG42-M02-16/17HS020(E)	16	100	108	350	0.65	90
PG42-M02-25/17HS020(E)	25	100	169	350	0.65	90
PG42-M03-64/17HS020(E)	64	112	408	900	0.75	85
PG42-M03-100/17HS020(E)	100	112	637	900	0.75	85
PG42-M04-400/17HS020(E)	400	125	2400	900	0.85	80
PG42-M04-625/17HS020(E)	625	125	3750	900	0.85	80

## PG42-XX/17HS240(E) Planetary Geared Stepper Motor

### 17HS240(E) motor specifications

Resistance per phase	Ohm	0.72
Current per phase	A	2.3
Inductance per phase	mH	0.83
Number of leads		4

### PG42-XX/17HS240(E) series Planetary Geared Stepper Motor specification and part numbers

Part Number	Ratio	Length L (mm)	Contiunous output torque @ 500 ½ steps per sec. Ncm	Maximum Peak Torque Ncm	Mass kg	Efficiency %
PG42-M01-4/17HS240(E)	4	99.5	59	150	0.65	95
PG42-M01-6/17HS240(E)	6.25	99.5	92.15	150	0.65	95
PG42-M02-16/17HS240(E)	16	112	223	350	0.75	90
PG42-M02-25/17HS240(E)	25	112	350	350	0.75	90
PG42-M03-64/17HS240(E)	64	124	843	900	0.85	85
PG42-M03-100/17HS240(E)	100	124	1318	900	0.85	85
PG42-M04-400/17HS240(E)	400	137	4960	900	0.95	80
PG42-M04-625/17HS240(E)	625	137	7750	900	0.95	80



## PG42-XX/17HT278(E) Planetary Geared Stepper Motor

### 17HT278(E) motor specifications

Resistance per phase	Ohm	1.6
Current per phase	A	2.0
Inductance per phase	mH	3.0
Number of leads		8

### PG42-XX/17HT278(E) series Planetary Geared Stepper Motor specification and part numbers

Part Number	Ratio	Length L (mm)	Contiunous output torque @ 500 ½ steps per sec. Ncm	Maximum Peak Torque Ncm	Mass kg	Efficiency %
PG42-M01-4/17HT278(E)	4	116.3	228	150	0.92	95
PG42-M01-6/17HT278(E)	6.25	116.3	171	150	0.92	95
PG42-M02-16/17HT278(E)	16	128.8	864	350	1.05	90
PG42-M02-25/17HT278(E)	25	128.8	1350	350	1.05	90
PG42-M03-64/17HT278(E)	64	140.8	3264	900	1.15	85
PG42-M03-100/17HT278(E)	100	140.8	5100	900	1.15	85
PG42-M04-400/17HT278 (E)	400	153.8	19200	900	1.25	80
PG42-M04-625/17HT278(E)	625	153.8	30000	900	1.25	80

### Encoder option

17H series motor are available with quadrature (RS422 line driver) encoders to provide feedback of motor position. Motors thus equipped are therefore ideally suited for use with motion systems employing closed loop controllers. The standard 'E5' encoder option has 1000 pulses per rev (4000 positions) and is supplied complete with a cable.

