

For combination with:
 DC-Motors:
 M4870U
 Brushless DC Motors:
 M4350R

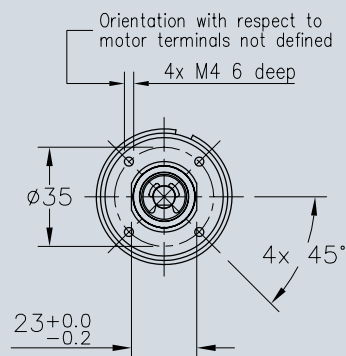
Series M42P

	M42P...YS	M42P...YB
Housing material	powdered metal	powdered metal
Geartrain material	metal	metal
Recommended max. input speed for:		
- continuous operation	4,000 rpm	4,000 rpm
Backlash, at no-load	≤ 3°	≤ 3°
Bearings on output shaft	sintered bronze bearings	ball bearings
Shaft load, max.:		
- radial (10 mm from mounting face)	49 N	74.5 N
- axial	29.4 N	29.4 N
Shaft press fit force. max.	147 N	147 N
Shaft play (on bearing output):		
- radial	0.05 mm	0.04 mm
- axial	0.30 mm	0.30 mm
Operating temperature range	- 10 to + 60 °C	- 10 to + 60 °C

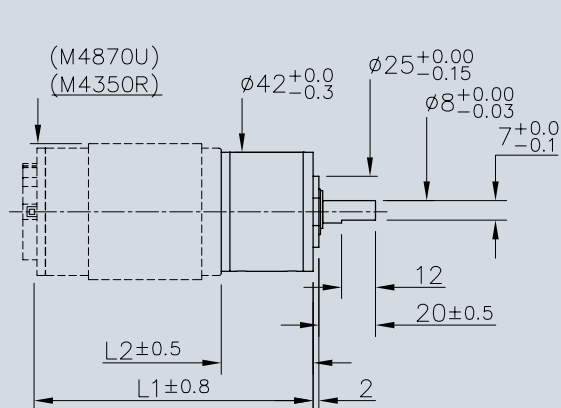
Specifications

reduction ratio (nominal)	number of gear stages	weight without motor sintered bearing g	weight without motor ball bearing g	length without motor L2 mm	length with motor M4350R L1 mm	length with motor M4870U L1 mm	output torque		direction of rotation (reversible)	efficiency %
							continuous operation M max. Nm	intermittent operation M max. Nm		
4 :1	1	141	139	32.5	82.5	102.5	0.2	0.6	=	90
14 :1	2	193	191	39.2	89.2	109.2	0.6	1.9	=	80
17 :1	2	193	191	39.2	89.2	109.2	0.8	2.4	=	80
24 :1	2	193	191	39.2	*	109.2	1.0	2.9	=	80
49 :1	3	233	231	45.9	95.9	115.9	1.6	4.7	=	70
61 :1	3	233	231	45.9	95.9	115.9	1.8	5.3	=	70
84 :1	3	233	231	45.9	*	115.9	1.8	5.3	=	70
104 :1	3	233	231	45.9	*	115.9	2.0	5.9	=	70
144 :1	3	233	231	45.9	*	115.9	2.0	5.9	=	70
212 :1	4	283	281	52.6	102.6	122.6	2.5	7.4	=	60
294 :1	4	283	281	52.6	*	122.6	2.5	7.4	=	60
504 :1	4	283	281	52.6	*	122.6	2.9	8.8	=	60
624 :1	4	283	281	52.6	102.6	122.6	2.9	8.8	=	60
720 :1	4	283	281	52.6	102.6	122.6	2.9	8.8	=	60
864 :1	4	283	281	52.6	*	122.6	2.9	8.8	=	60
1,062 :1	5	328	326	59.6	109.6	129.6	2.9	8.8	=	50
1,470 :1	5	328	326	59.6	109.6	129.6	2.9	8.8	=	50
2,500 :1	5	328	326	59.6	109.6	129.6	2.9	8.8	=	50
3,000 :1	5	328	326	59.6	109.6	129.6	2.9	8.8	=	50
3,600 :1	5	328	326	59.6	109.6	129.6	2.9	8.8	=	50

* Not available for use with Brushless Motor M4350R



Front View



M42P

