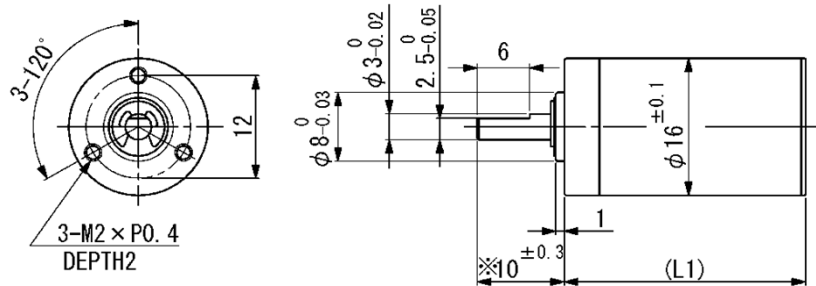


# SPG16

## Planetary gearhead



Dimension in mm

Note) Dimension marked ※ is measured with shaft pushed against gearhead.

General specifications	SPG12	
1 Housing material	Metal	
2 Geartrain material	Steel	
3 Recommended max. input speed	6000	rpm
4 Operation temperature range	-10...+60	°C
5 Backlash at no-load per stage	≤ 1	°
6 Bearings on output shaft	Sintered sleeve bearings	
7 Max. shaft radial load (7mm from flange)	4 (25)	N
8 Max. shaft axial load	2	N
9 Max. shaft press fit force	30	N
10 Shaft radial play	≤ 0.03	mm
11 Shaft axial play	≤ 0.3	mm
12 Max. allowable torque (Continuous)	200	mNm
13 Max. allowable torque (Intermittent)	400	mNm

General specifications	SPG16-	3.6	4.7	13	22	61	105	
14 Reduction ratio (absolute value)		3.60 : 1	4.71 : 1	12.96 : 1	22.22 : 1	61.10 : 1	104.77 : 1	
15 Number of stage		1	1	2	2	3	3	
16 Efficiency		85	85	72	72	61	61	%
17 Direction of rotation		=	=	=	=	=	=	
18 Gearhead length: L1		15.3	15.3	19.5	19.5	23.7	23.7	mm
19 Weight		20	20	24.5	24.5	29	29	g

Combination			Reduction ratio ( Motor+gearhead total length)						
Type	Model name		3.6	4.7	13	22	61	105	
Brushed coreless motor	CMS16-20..P		35.3	35.3	39.5	39.5	43.7	43.7	mm
	CMS16-25..P		40.3	40.3	44.5	44.5	48.7	48.7	mm
	CMS16-30..P		45.3	45.3	49.5	49.5	53.7	53.7	mm
Brushless coreless motor	BMS16-20..P		35.3	35.3	39.5	39.5	43.7	43.7	mm
	BMS16-30..P		45.3	45.3	49.5	49.5	53.7	53.7	mm



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