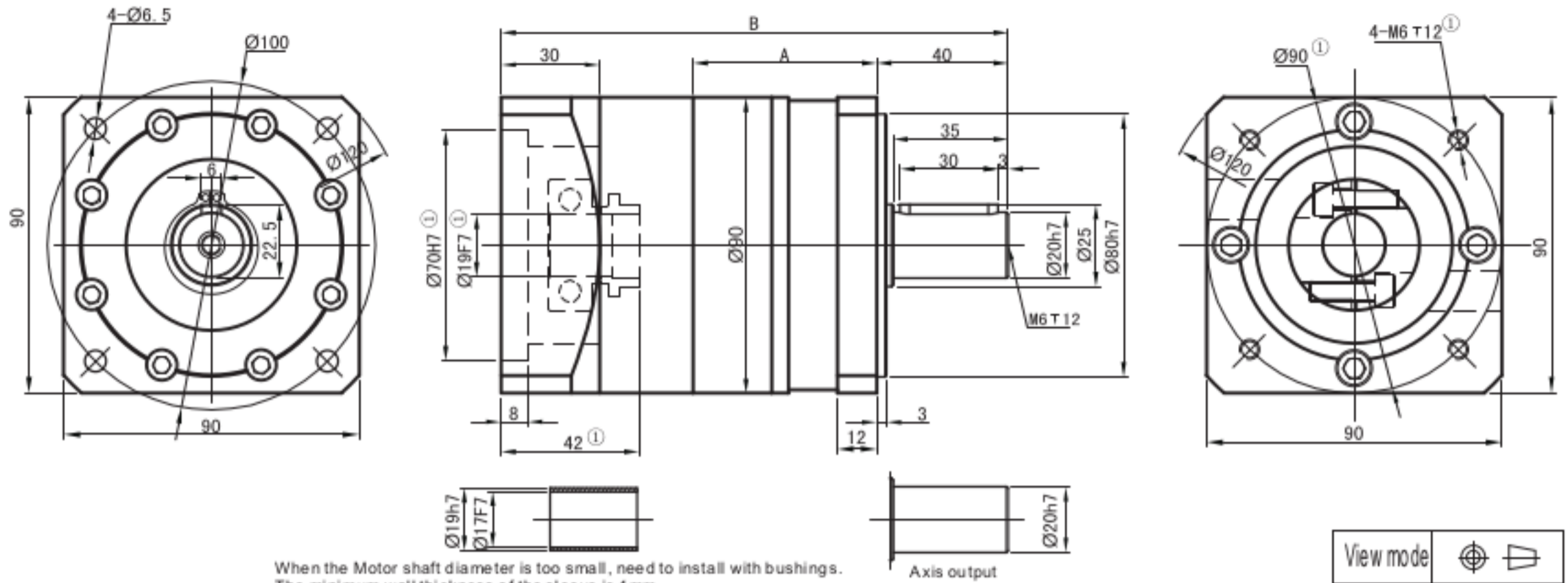


# PLF090 Standard Precision Planetary Reducer



stage	stage 1 (Contains the speed Ratio 3 4 5 7 10)		stage 2 (Contains the speed Ratio 12 16 20 25 28 35 40 50 70 100)		stage 3 (Contains the speed Ratio 80 100 125 140 175 200 250 350 400 500 700 1000)	
	A	B	A	B	A	B
Length(mm)	56.0	154.5	80.0	178.5	104.0	202.5
Rated input speed (rpm)	3500		3500		3500	
Maximum input speed (rpm)	6000		6000		6000	
The maximum radial force (N) <sup>②</sup>	1020		1270		1420	
The maximum axial force (N) <sup>②</sup>	850		1100		1250	
No-load torque (Nm)	About 0.8		About 0.4		About 0.4	
Full load efficiency (%)	96		94		90	
Return Gap (arcmin)	Precision backlash < 3	Standard backlash < 8	Precision backlash < 5	Standard backlash < 10	Precision backlash < 8	Standard backlash < 12
Noise (dB)	≤ 62		≤ 62		≤ 62	
Weight (Kg)	2.8		3.4		4.0	
average service life (h)	> 20000					
Torsional rigidity (Nm/arcmin)	7.5					
Lubricating oil	Long-lasting lubrication					
Direction of rotation	Input and output in the same direction					
level of protection	IP65					
method of Installation	Anyway according to the need					

Reduction ratio (i)	3 <sup>Second choice</sup>	4	5	7	10	12 <sup>Second choice</sup>	16	20	25	28	35	40	50	70
Rated.out.torque(Nm)	60.0	86.0	94.5	64.0	39.5	96.0	96.0	96.0	105.5	96.0	105.5	96.0	105.5	71.5
Max.out.torque(Nm)	120.0	172.0	189.0	128.0	79.0	192.0	192.0	192.0	211.0	192.0	211.0	192.0	211.0	143.0
Turning inertia (Kgcm <sup>2</sup> )	0.4	0.309	0.291	0.285	0.283	0.4	0.309	0.291	0.291	0.285	0.285	0.283	0.283	0.283

Reduction ratio (i)	80	100 <sup>Two-stage</sup>	100 <sup>Three-stage</sup>	125	140	175	200	250	280	350	400	500	700	1000
Rated.out.torque(Nm)	120.0	44.0	120.0	132.0	120.0	132.0	120.0	132.0	120.0	132.0	44.0	132.0	89.5	55.0
Max.out.torque(Nm)	240.0	88.0	240.0	264.0	240.0	264.0	240.0	264.0	240.0	264.0	88.0	264.0	179.0	110.0
Turning inertia (Kgcm <sup>2</sup> )	0.291	0.283	0.291	0.291	0.285	0.285	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283

Remark 1: Different motors, matching the size of the change, the adapter will be different. The reducer of our company can be installed with any motor.

Remark 2: When the output speed of Single stage is 100rpm, second stage is 50 rpm, third stage is 10rpm, it will act on the center position of the output shaft (the position of 1/2 axis). The permissible radial and axial force (the force at the same time)