

TB142

高精度行星减速机 142 (mm)

Precision planetary gearbox 142(mm)



最大径向力 (N) Maximum radial force	最大轴向力 (N) Maximum axial force	操作温度 (°C) Operaring temp	平均寿命 (hr) Average lifetime	噪音 (DB) Noise	润滑油 Lubrication	防护等级 Protection class	安装方式 Mounting position
9400	4700	-10°C~+90°C	15000(s1) 30000(s5)	≤65	合成润滑脂 (Synthetic grease)	IP65	任意方向 (Any direction)

输出转速100RPM时,作用于输出轴长度1/2位置。

When the output speed is 100RPM, it acts on the 1/2 position of the output shaft length.

(容许轴向力,容许径向力指在输出轴上只施加纯粹的轴向或径向负载)。

(Allowable axial force, allowable radial force refers to the application of only pure axial or radial load on the output shaft) .

实际减速机所承受的径向力,轴向力会依施力点的位置而不同。

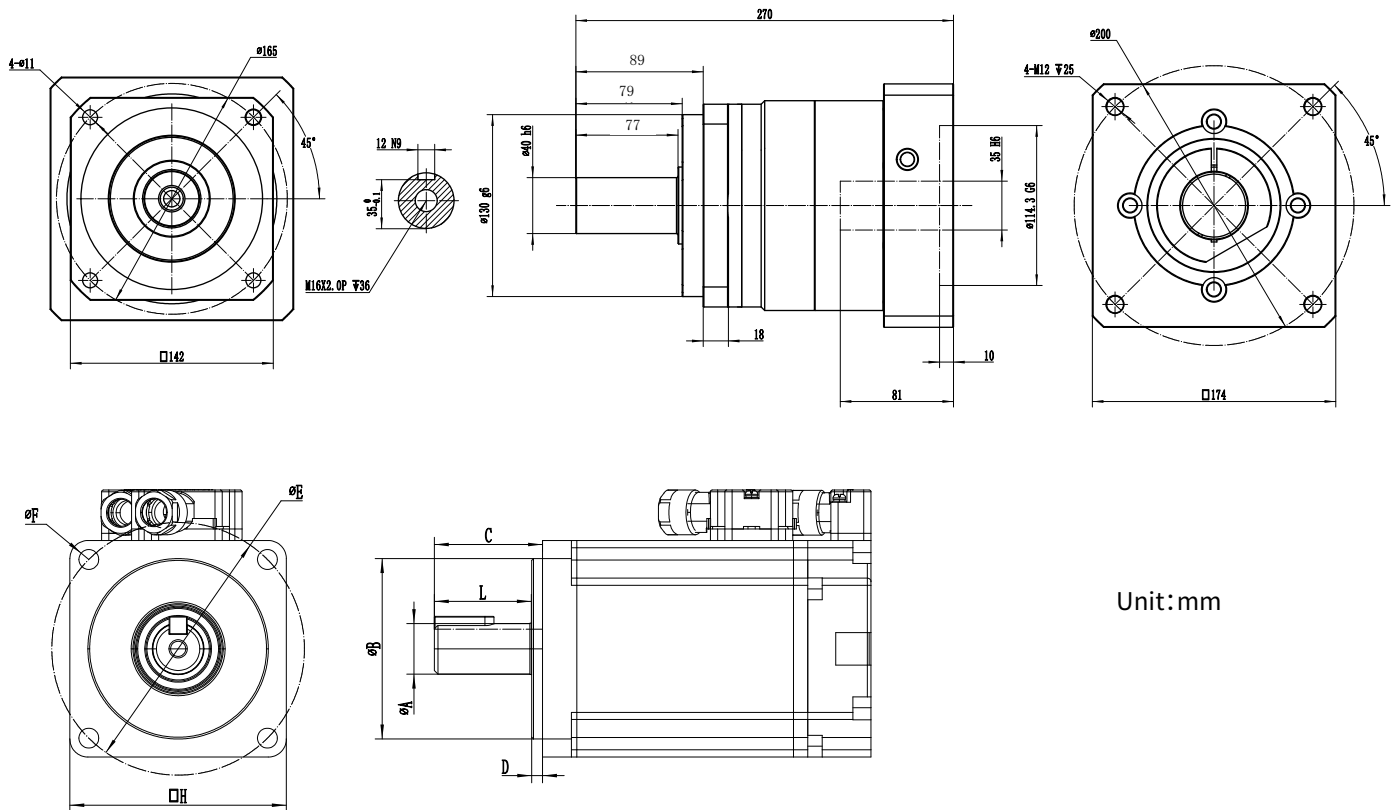
The actual radial force borne by the reducer, the axial force will vary depending on the location of the force application point.

背隙 P0<3弧分, P1<5弧分, P2<8弧分。

Backlash P0 < 3 arc minutes, P1 < 5 arc minutes, P2 < 8 arc minutes.

外型图 Mechanical Dimension

TB142-L1



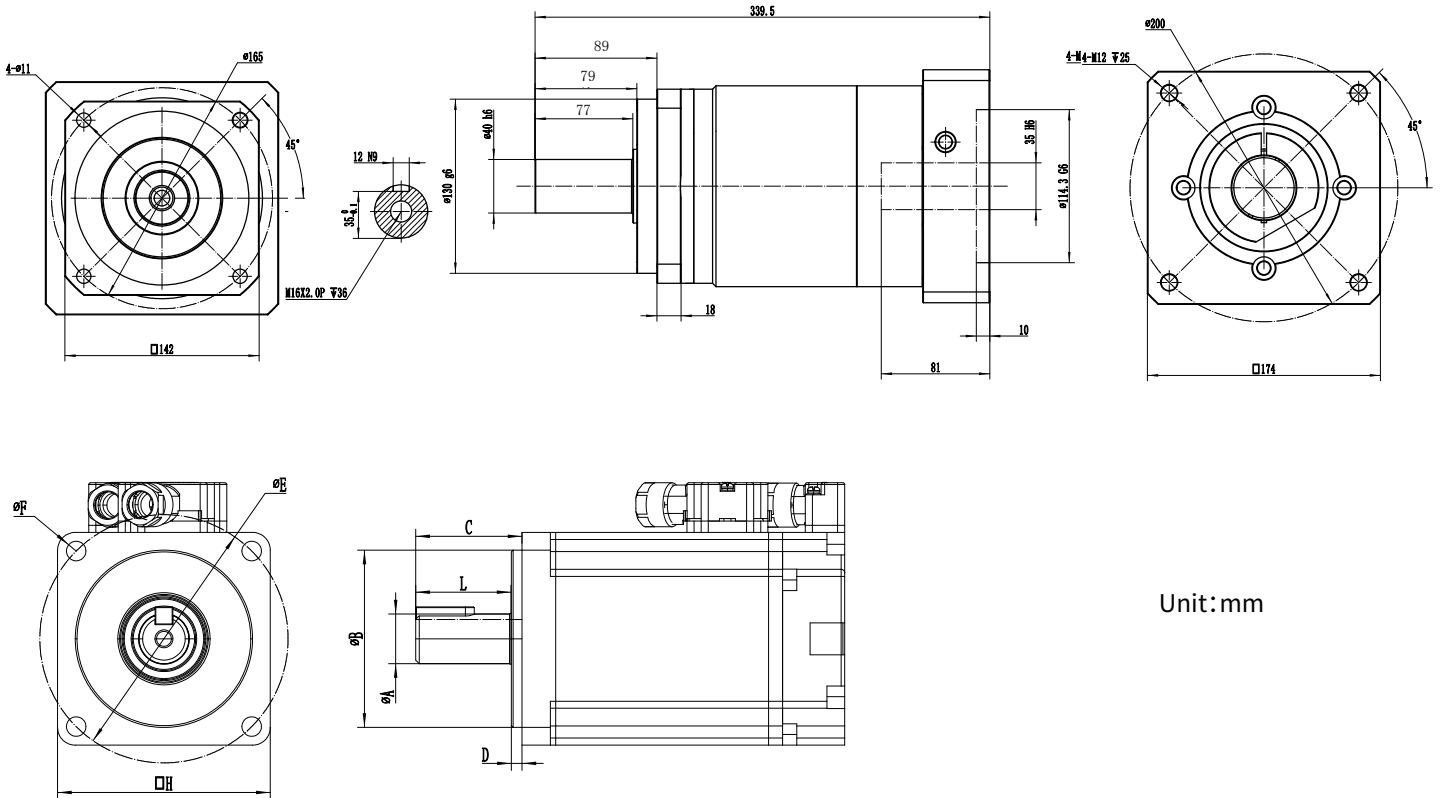
Unit:mm

C: 马达轴长度。Length of motor ooutput shaft.

D: 马达凸缘高度。Height of motor flange.

L: 马达出力轴有效长。Actual lenth of motor shaft.

TB142-L2



Unit:mm

- 1.最大加速力矩 (T2B)=0.6x急停扭矩(T2not)
(Maximum acceleration torque (T2B) = 0.6x emergency stop torque (T2not))
- 2.噪音值会依比数不同而增加,此数据以10比为准,距减速机1M位置测量。
(The noise value will increase according to different ratios. This data is based on ratio 10 and is measured at a position 1M away from the reducer.)
- 3.使用寿命为低于额定输入转数及额定输出转速之操作状况下寿命。
(The service life is under operating conditions that lower than the rated input speed and rated output speed.)

*合泰电机保有修改尺寸的权利。所有减速机尺寸以画面确认为准。

*Hetai Motor reserves the right to modify the dimensions. All the dimension according the confirm drawing.

性能参数 Performance Parameter

性能表 SPECIFICATION				
性能参数 (SPEC)		段数 Stage	减速比 Ratio	TB142
额定输出扭矩 Rate output torque T2n(N-M)		1	3	351
			4	516
			5	588
			7	539
			10	505
		2	15	351
			20	516
			25	588
			30	351
			35	588
			40	516
			50	588
			70	539
			100	505
急停扭矩 Emergrncy Stop Torque T2not (N-M)(1)		1, 2	3-100	3倍额定输出扭矩 3 times the rated output torque
额定输入转速 Rate Input Speed n	rpm	1, 2	3-100	2000
最大输入转速 Max.Inptut Speed n	rpm	1, 2	3-100	3000
效率 Efficiency	%	1	3-100	≥97%
		2	15-100	≥95%

规格 Norm	段数 Stage	减速比 Ratio	TB142
转动惯量 Mass Mom. of inertia. J(KG-CM^2)	1	3	2.97
		4	2.19
		5	2.03
		7	1.72
		10	1.56
	2	15	2.03
		20	2.03
		25	2.03
		30	1.56
		35	1.72
		40	1.56
		50	1.56
		70	1.56
		100	1.56