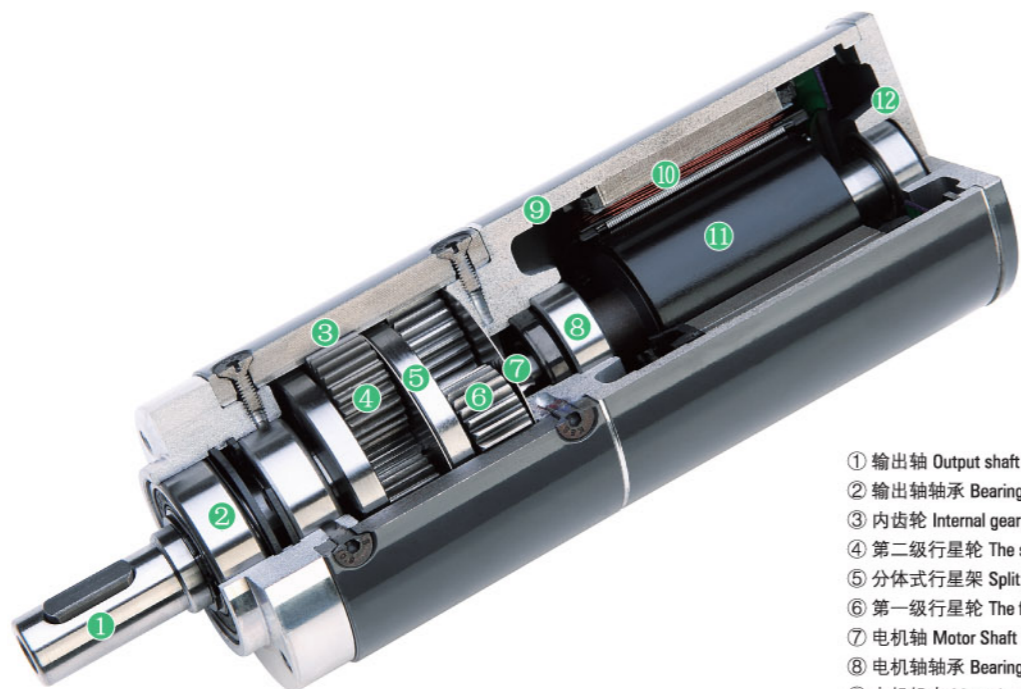


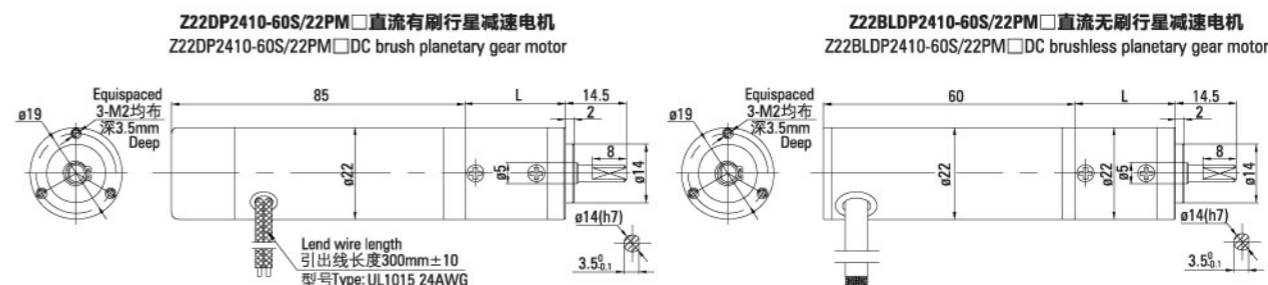
PM系列行星齿轮减速电动机型号的阅读方法  
**PRODUCT NUMBER CODE-PLANETARY GEAR MOTOR**

剖视图 SECTIONAL DRAWING



- ① 输出轴 Output shaft
- ② 输出轴轴承 Bearing for the output shaft
- ③ 内齿轮 Internal gear
- ④ 第二级行星轮 The second stage of planetary gear
- ⑤ 分体式行星架 Split planet carrier
- ⑥ 第一级行星轮 The first stage of planetary gear
- ⑦ 电机轴 Motor Shaft
- ⑧ 电机轴轴承 Bearing for the motor shaft
- ⑨ 电机机壳 Motor housing
- ⑩ 无刷电机定子 BLDC motor stator
- ⑪ 无刷电机转子 BLDC motor rotor
- ⑫ 电机后盖 End cover

Ø22 DC/BLDP直流有刷(无刷)行星齿轮减速电机  
**Ø22 DC BRUSH (BRUSHLESS) PLANETARY GEAR MOTOR**



Z 62 BLDP 24 60 - 30S / 62 PM 303  
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

电机参数	①
②	电机外形尺寸 Motor outline dimension 22:电机外径 Motor external diameter $\phi 22\text{mm}$ 32:电机外径 Motor external diameter $\phi 32\text{mm}$ 42:电机外径 Motor external diameter $\phi 42\text{mm}$ 52:电机外径 Motor external diameter $\phi 52\text{mm}$ 62:电机外径 Motor external diameter $\phi 62\text{mm}$
③	电机型式: BLDP:无刷直流电机, 配行星减速箱式 BLDC motor matched with planetary gearbox DP:有刷直流电机, 碳刷内置(不可外部更换电刷), 配行星减速箱式 Brush DC motor with inner brush (no brush replacement from outside), matched with planetary gearbox
④	电机使用额定电压 Rated voltage for the motor using 12:12V 24:24V
⑤	电机输出额定功率 Rated output power for the motor 40:40W 60:60W
⑥	电机输出额定转速 Rated output speed for the motor 20S:2000RPM 30S:3000RPM
齿轮箱参数	⑦
⑧	齿轮箱外形尺寸 The outline dimension for the gearbox 传动型系列transmission series 22:外径 External diameter $\phi 22\text{mm}$ 32:外径 External diameter $\phi 32\text{mm}$ 42:外径 External diameter $\phi 42\text{mm}$ 52:外径 External diameter $\phi 52\text{mm}$ 62:外径 External diameter $\phi 62\text{mm}$
⑨	行星齿轮箱 Planetary gearbox PM:传动型行星(金属) Transmission planetary (metal) PK:传动型行星(塑料) Transmission planetary (plastic) 减速比 Reduction ratio 303:减速比Reduction ratio 1:303

Z22D电机接线图  
Z22D motor wiring diagram

Z22BLD插孔示意图  
Z22BLD plughole diagram

Z22BLD接线插孔对应信号说明  
Z22BLD wiring plughole corresponding signal explanation

1	2	2	4	5
U	V	W	+5V	/
6	7	8	9	
GND	Hu	Hv	Hw	

■ 直流电机技术参数 DC MOTOR TECHNICAL DATA

直流电机型号 Motor type	电压 Voltage	功率 Power	空载转速 No-load speed	空载电流 No-load current	额定转速 Rated speed	额定电流 Rated current	额定转矩 Rated torque	电机寿命 Motor life	电机重量 Motor weight
TYPE	V	W	RPM	A	RPM	A	N.M	H	Kg
Z22DP2410-60S	24	10	6500	0.3	6000	0.85	1.6	1000	0.5
Z22BLDP2410-60S	24	10	6500	0.3	6000	0.90	1.6	3000	0.5

■ 直行星减速电机技术参数 DC PLANETARY GEAR MOTOR TECHNICAL DATA

减速比 Reduction ratio	i	3.65	5.36	6.55	8.63	13	20	24	29	35	43	57	74
空载转速 No-load speed	RPM	1780	1212	922	753	500	325	271	244	186	151	114	88
额定转速 Rated speed	RPM	1644	1119	916	695	461	300	250	207	171	139	105	81
额定转矩 Rated torque	N.M	0.052	0.077	0.094	0.12	0.18	0.29	0.34	0.4	0.4	0.4	0.4	0.4
减速级数 Reduction stage		1	1	1	1	2	2	2	2	2	2	2	2

减速比 Reduction ratio	i	87	105	128	154	169	188	206	248	272	303	370	399	488	643
空载转速 No-load speed	RPM	75	62	51	42	38	34	31	26	24	21	17	16	13	10
额定转速 Rated speed	RPM	67	57	47	39	35	32	29	24	22	20	16	15	12	9
额定转矩 Rated torque	N.M	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.6
减速级数 Reduction stage		3	3	3	3	3	3	3	3	3	3	3	3	3	3