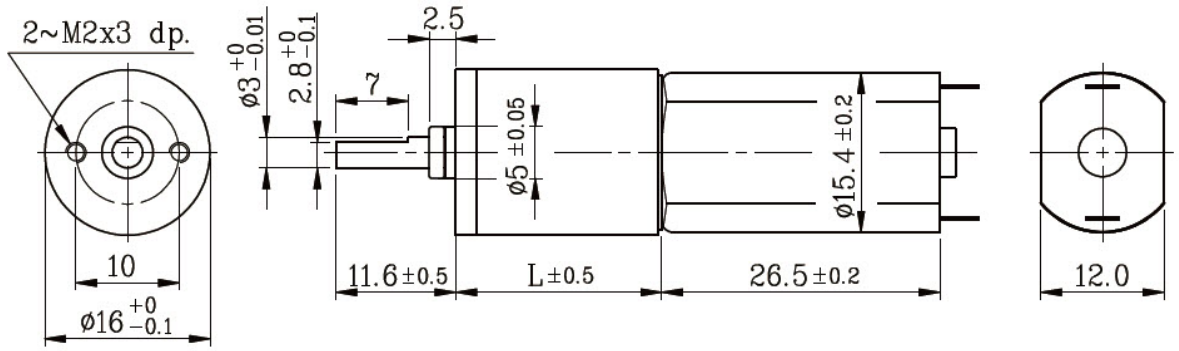
DP163-04&05



Appearance Size



unit:mm

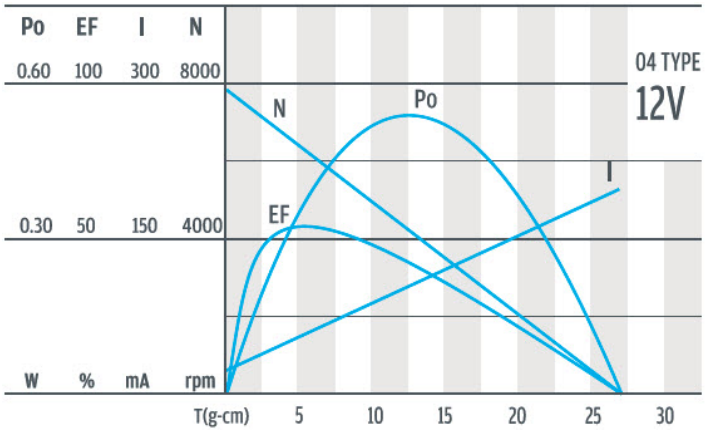
DC Motor+Gearbox Specifications

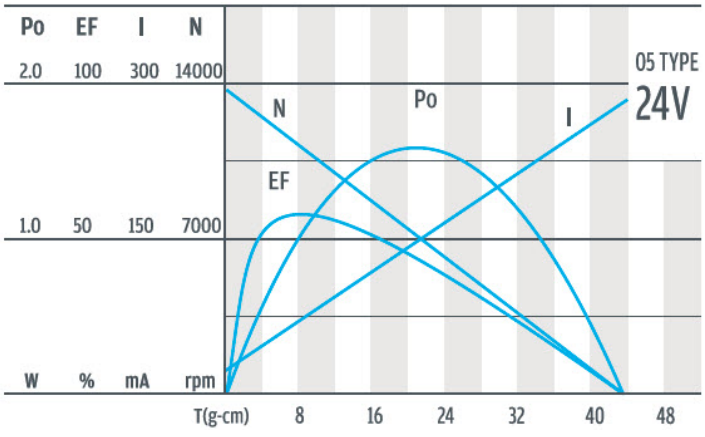
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12V	Rated Torque (g.cm)	21	60	70	82	120	193	220	260	300	380	460	550	700	950	1100	1350	1700	2000
	Rated Speed (rpm)	1330	430	377	315	205	117	100	85	7S3	59	48	39	26	19	16	13.5	11	8.9
24V	Rated Torque (g.cm)	31	85	103	120	180	284	330	380	450	560	690	850	1000	1400	1600	2000	2000	2400
	Rated Speed (rpm)	2400	760	669	555	365	208	170	150	130	105	85	69	47	34	29	24	19.5	15.9
	Rotation Direction	CW																	
	Length(L-mm)	15.05				18.70				22.35			26.00				29.65		

DC Motor Specifications

Rated Voltage (V)	Rated Torque (g.cm)	Rated Speed (rpm)	Rated Current (mA)	No Load Speed (rpm)	No Load Current (mA)	Weight (g)
12	6.1	6200	<=85	8000	<=50	18
24	9.0	11000	<=90	13500	<=50	18

* Specification can be customized as the inquiry. Contact: sales@ichmo.com



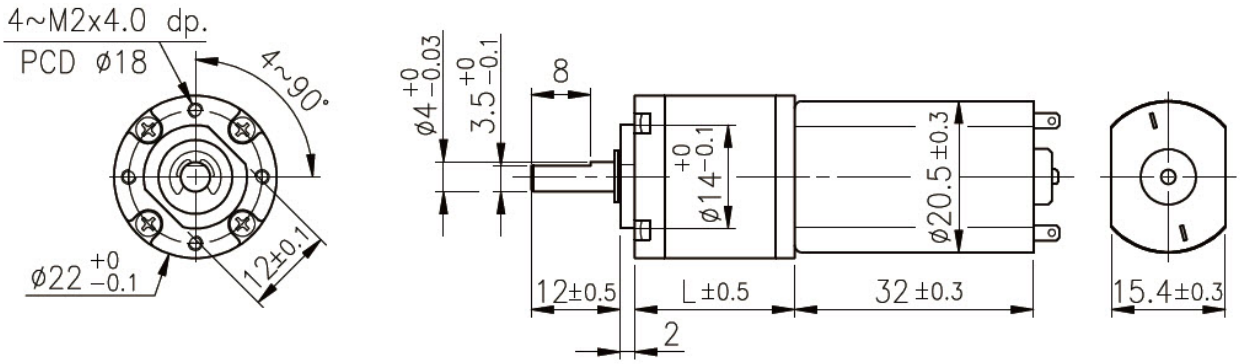


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Specifications subject to change without notice.

DP223-01&02



Appearance Size



unit:mm

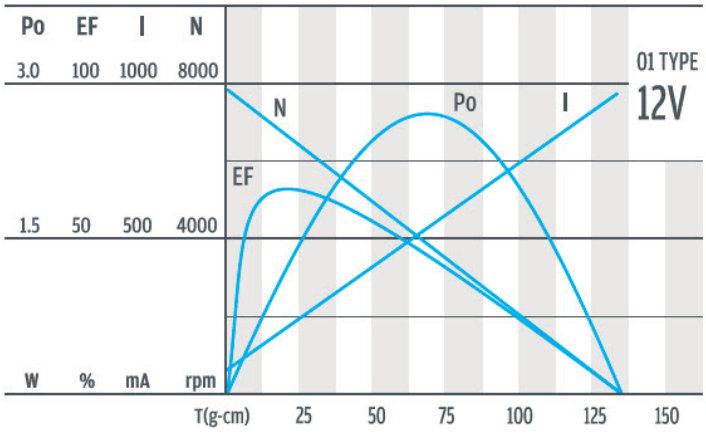
DC Motor + Gearbox Specifications

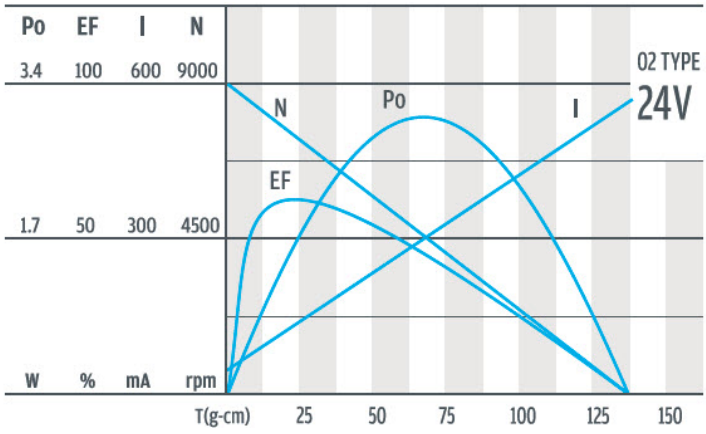
	Reduction Ratio	1/4	1/14	1/16	1/19	1/53	1/62	1/72	1/84	1/104	1/198	1/231	1/270	1/316	1/370	1/455	1/742
12V	Rated Torque (g.cm)	77	215	250	295	695	810	950	1100	1370	2100	2500	2500	2500	2500	2500	3000
	Rated Speed (rpm)	1450	470	405	348	127	109	93	79	64	34	29	25	22	19	15.5	9.5
24V	Rated Torque (g.cm)	77	215	250	295	695	810	950	1100	1370	2100	2500	2500	2500	2500	2500	3000
	Rated Speed (rpm)	1600	515	450	384	140	120	103	88	71	37	32	28	23.5	21	17.5	10.5
	Rotation Direction	CCW															
	Length(L-mm)	14.40	18.05			21.7					25.35						29.00

DC Motor Specifications

Rated Voltage (V)	Rated Torque (g.cm)	Rated Speed (rpm)	Rated Current (mA)	No Load Speed(rpm)	No Load Current (mA)	Weight (g)
12	22	6700	<=200	8000	<=70	32
24	22	7400	<=110	9000	<=40	32

* Specification can be customized as the inquiry. Contact: sales@ichmo.com



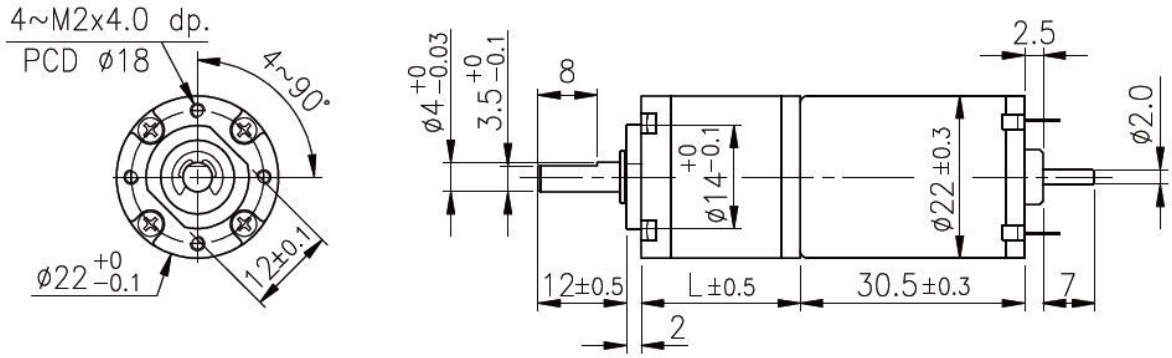


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DP223-03&04



Appearance Size



unit:mm

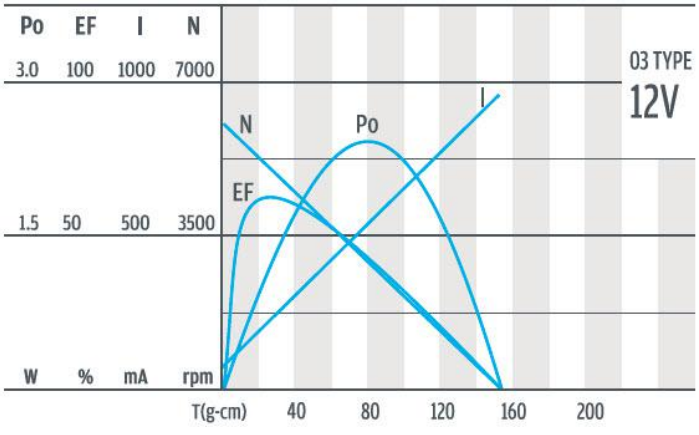
DC Motor + Gearbox Specifications

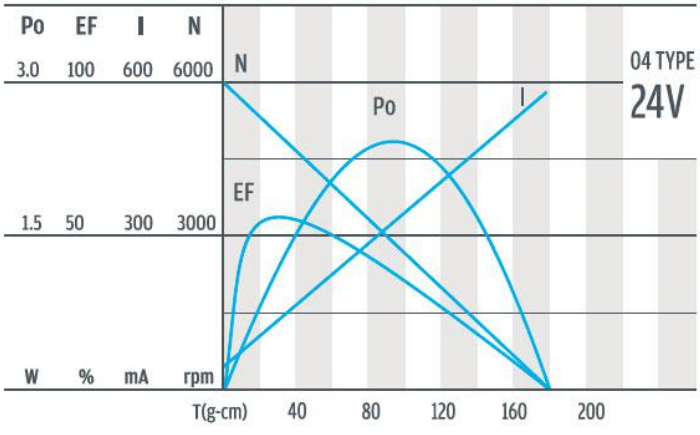
	Reduction Ratio	1/4	1/14	1/16	1/19	1/53	1/62	1/72	1/84	1/104	1/198	1/231	1/270	1/316	1/370	1/455	1/742
12V	Rated Torque (g.cm)	100	300	350	410	970	1100	1300	1500	1900	2500	2500	2500	2500	2500	2500	3000
	Rated Speed (rpm)	1000	340	290	245	90	77	66	56	46	24	21	18	16	13.5	11	7.3
24V	Rated Torque (g.cm)	120	360	420	490	1150	1300	1500	1800	2000	2500	2500	2500	2500	2500	2500	3000
	Rated Speed (rpm)	1000	330	280	240	89	76	65	55	46	24	21	18	16	13.5	11	7.3
	Rotation Direction	CW															
	Length(L-mm)	14.40	18.05			21.70					25.35						29.00

DC Motor Specifications

Rated Voltage (V)	Rated Torque (g.cm)	Rated Speed (rpm)	Rated Current (mA)	No Load Speed (rpm)	No Load Current (mA)	Weight (g)
12	31	4790	<=240	6000	<=80	43
24	37	4710	<=145	6000	<=55	43

* Specification can be customized as the inquiry. Contact: sales@ichmo.com



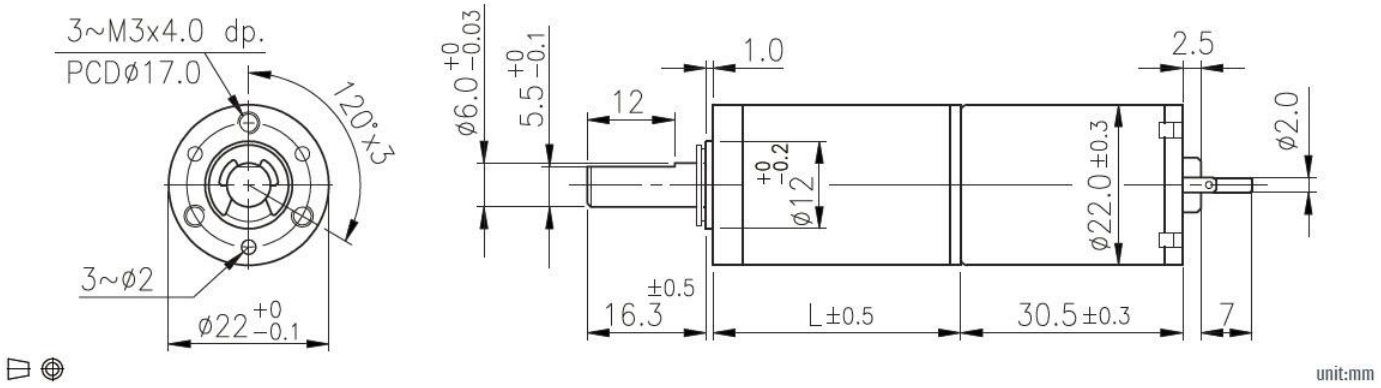


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DP223C-03&04



Appearance Size



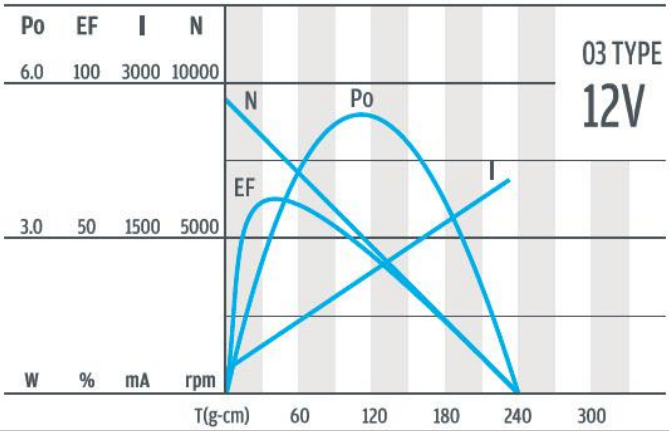
DC Motor + Gearbox Specifications

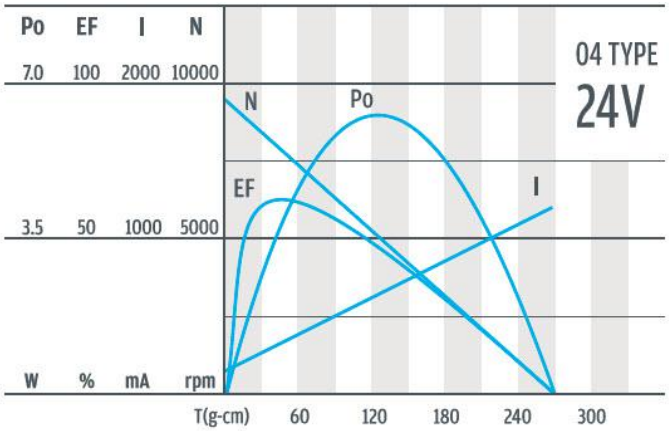
	Reduction Ratio	1/5	1/18	1/20	1/25	1/66	1/77	1/90	1/110	1/136	1/246	1/336	1/393	1/484	1/597	1/735
12V	Rated Torque (g.cm)	170	560	650	820	1800	2100	2450	3000	3700	5000	5000	5000	5000	5000	5000
	Rated Speed (rpm)	1500	400	340	280	105	94	80	65	53	29	22	19	15.5	12.5	10
24V	Rated Torque (g.cm)	190	640	750	930	2000	2400	2800	3500	4000	5000	5000	5000	5000	5000	5000
	Rated Speed (rpm)	1600	420	350	290	110	98	84	68	55	31	23	20	16	13	10.5
	Rotation Direction	CW														
	Length (L-mm)	23.3	29.5			35.7					41.9					

DC Motor Specifications

Rated Voltage (V)	Rated Torque (g.cm)	Rated Speed (rpm)	Rated Current (mA)	No Load Speed (rpm)	No Load Current (mA)	Weight (g)
12	46	7230	<=500	9000	<=120	43
24	53	7550	<=300	9000	<=80	43

* Specification can be customized as the inquiry. Contact: sales@ichmo.com



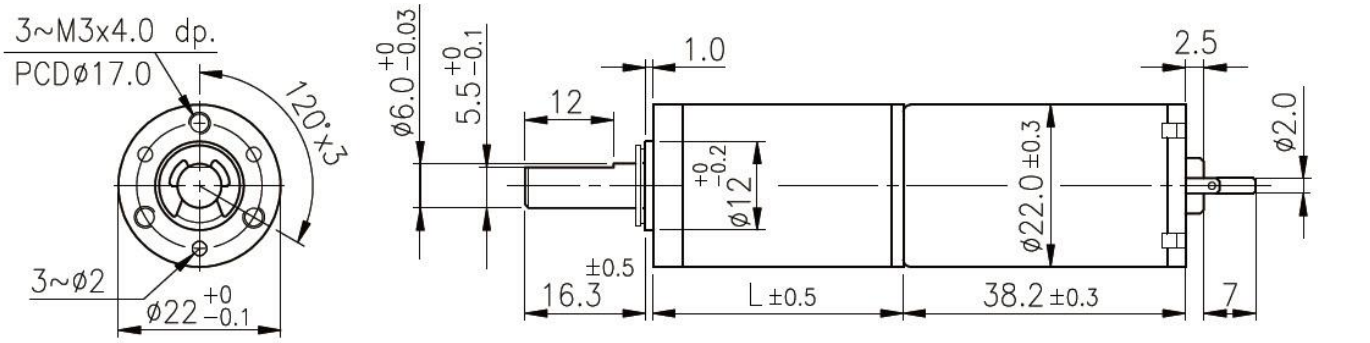


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DP223C-05&06



Appearance Size



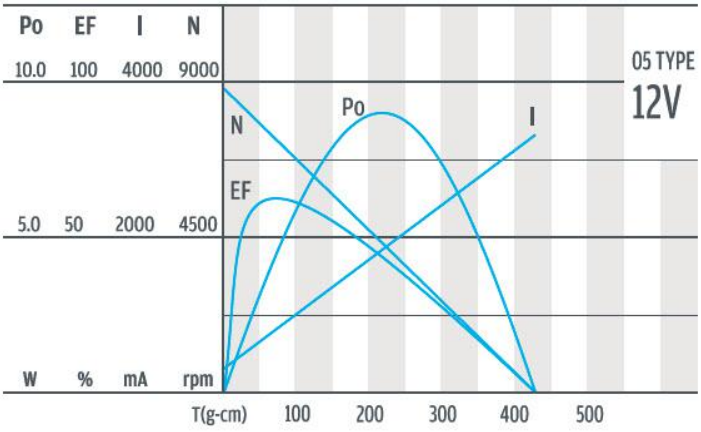
Product Specifications

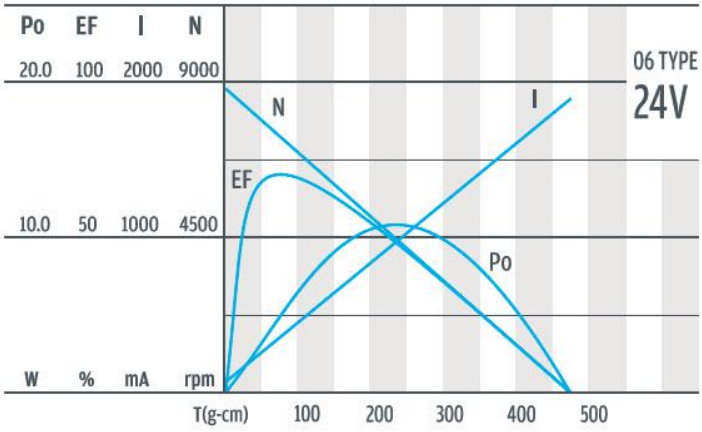
	Reduction Ratio	1/5	1/18	1/20	1/25	1/66	1/77	1/90	1/110	1/136	1/246	1/336	1/393	1/484	1/597	1/735
12V	Rated Torque (g.cm)	260	850	1000	1200	2700	3200	3700	4000	4000	5000	5000	5000	5000	5000	5000
	Rated Speed (rpm)	1500	400	340	280	105	92	79	64	52	29.4	22.4	19.6	16.0	12.9	10.5
24V	Rated torque (g.cm)	260	850	1000	1200	2700	3200	3700	4000	4000	5000	5000	5000	5000	5000	5000
	Rated Speed (rpm)	1500	410	350	290	110	95	81	67	56	31	23	20	16.3	13.1	10.7
	Rotation Direction	CW														
	Length(L-mm)	23.3	29.5			35.7					41.9					

Motor Specifications

Rated Voltage (V)	Rated Torque (g.cm)	Rated Speed (rpm)	Rated Current (mA)	No Load Speed (rpm)	No Load Current (mA)	Weight (g)
12	70	7100	<=700	9000	<=190	51
24	70	7400	<=360	9000	<=120	51

* Specification can be customized as the inquiry. Contact: sales@ichmo.com



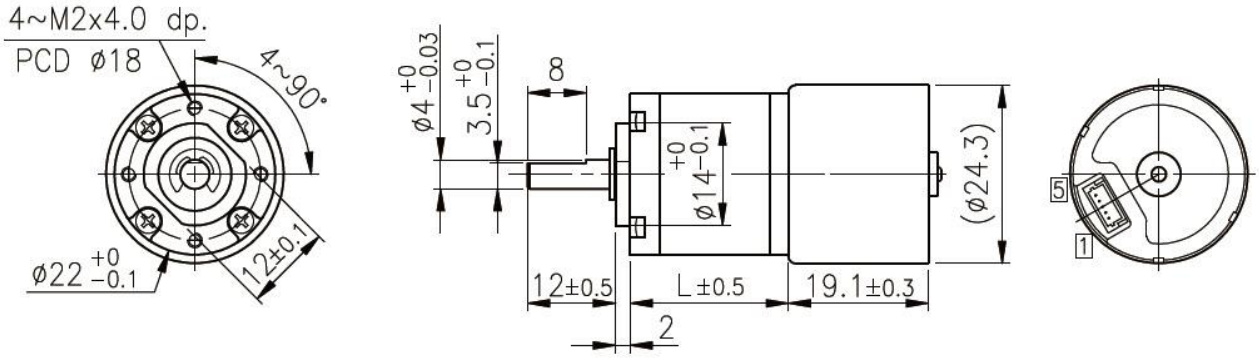


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Specifications subject to change without notice.

DP223P-41&42



Appearance Size



unit:mm

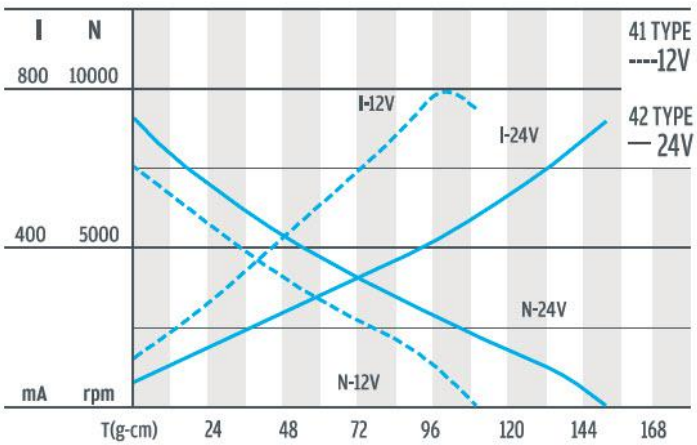
DC Motor + Gearbox Specifications

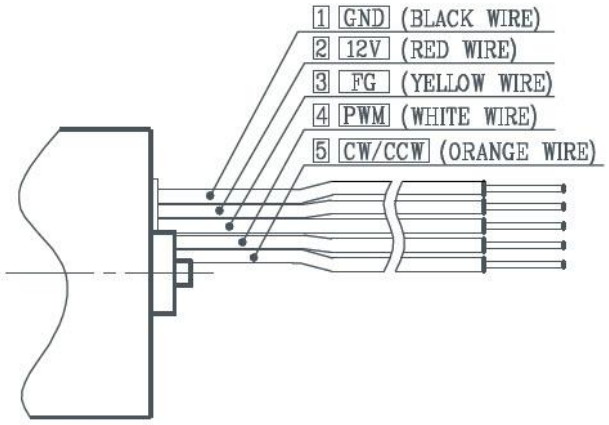
	Reduction Ratio	1/4	1/14	1/16	1/19	1/53	1/62	1/72	1/84	1/104	1/198	1/231	1/270	1/316	1/370	1/455	1/742
12V	Rated Torque (g.cm)	100	290	345	400	940	1100	1290	1500	1700	2000	2000	2000	2000	2000	2000	2500
	Rated Speed (rpm)	1200	380	320	275	100	85	74	63	51	28	25	22	18	16	13	8
24V	Rated Torque (g.cm)	95	270	320	375	885	1030	1200	1400	1700	2000	2000	2000	2000	2000	2000	2500
	Rated Speed (rpm)	1500	475	405	345	125	105	93	79	64	35	31	27	22.5	19	16	10
	Rotation Direction	CW															
	Length(L-mm)	14.40	18.05			21.7					25.35						29.00

DC Motor Specifications

Rated Voltage (V)	Rated Torque (g.cm)	Rated Speed (rpm)	Rated Current (mA)	No Load Speed (rpm)	No Load Current (mA)	Weight (g)
12	30	5340	<=310	7400	<=180	28
24	28	6700	<=170	9000	<=100	28

* Specification can be customized as the inquiry. Contact: sales@ichmo.com



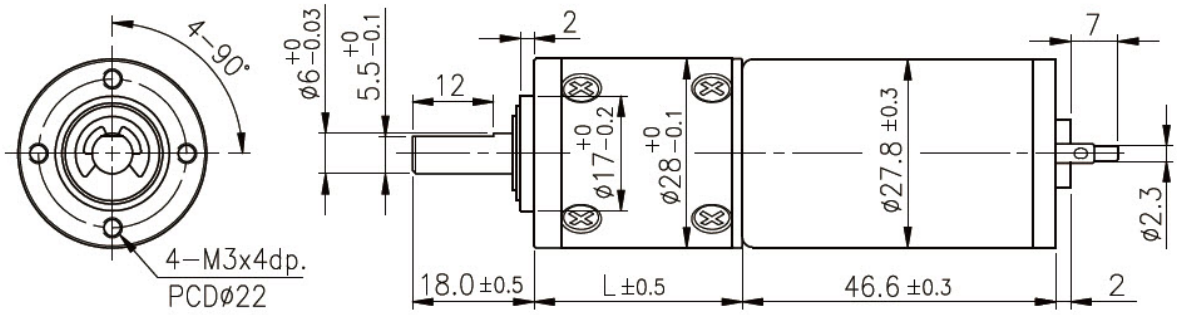


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DP283-03&04



Appearance Size



unit:mm

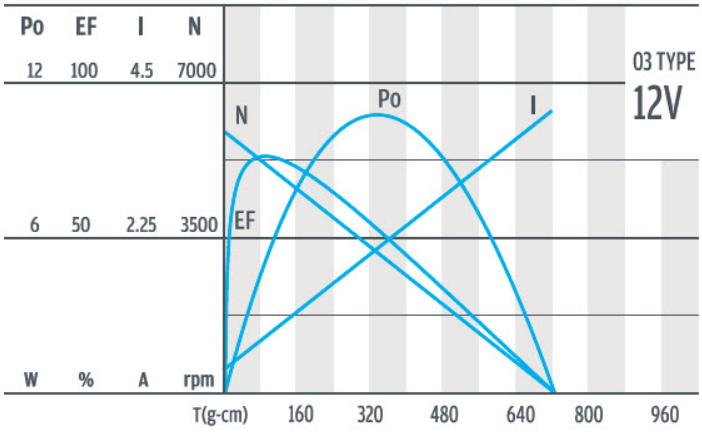
DC Motor + Gearbox Specifications

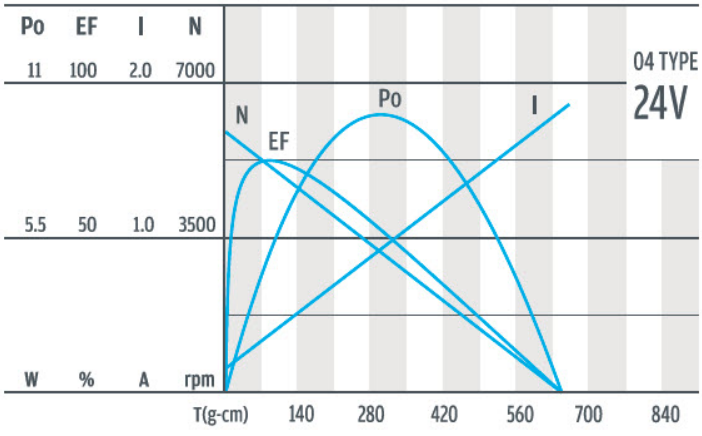
	Reduction Ratio	1/5	1/14	1/19	1/27	1/35	1/51	1/71	1/100	1/139	1/189	1/264	1/516	1/721	1/939
12V	Rated Torque (Kg.cm)	0.32	0.75	1.0	1.4	1.9	2.4	3.3	4.7	6.6	7.4	10	10	10	10
	Rated Speed (rpm)	1000	375	270	193	148	102	73	52	37.3	27.5	19.7	10.5	7.5	5.7
24V	Rated Torque (Kg.cm)	0.38	0.9	1.2	1.7	2.3	2.8	4.0	5.6	7.8	8.8	10	10	10	10
	Rated Speed (rpm)	990	370	265	191	147	101	72	51.5	36.9	27.2	19.3	10.4	7.4	5.7
	Rotation Direction	CCW													
	Length (L-mm)	24.5	30.9				37.3				43.7				

DC Motor Specifications

Rated Voltage (V)	Rated Torque (g.cm)	Rated Speed (rpm)	Rated Current (mA)	No Load Speed (rpm)	No Load Current (mA)	Weight (g)
12	79	5200	<=500	6000	<=130	93
24	94	5140	<=300	6000	<=80	91

* Specification can be customized as the inquiry. Contact: sales@ichmo.com



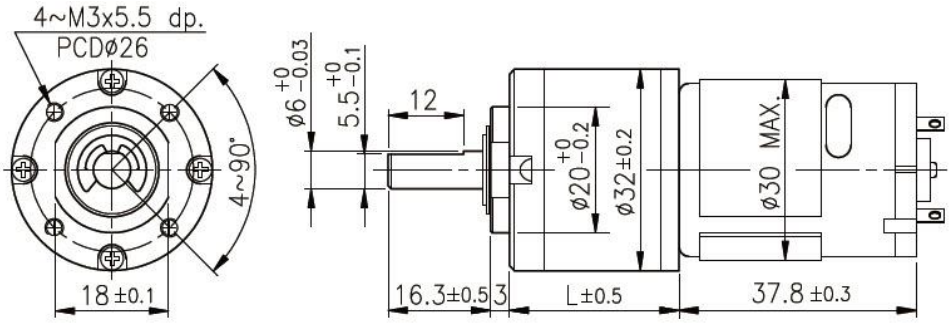


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DP323-01&02



Appearance Size



unit:mm

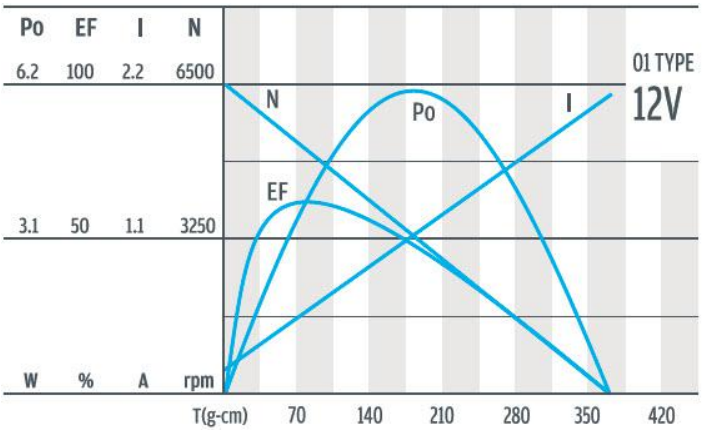
DC Motor + Gearbox Specifications

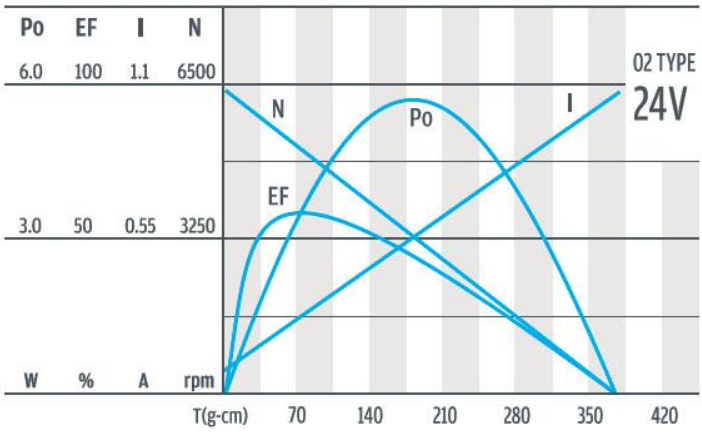
	Reduction Ratio	1/5	1/14	1/19	1/27	1/35	1/51	1/71	1/100	1/139	1/189	1/264	1/516	1/721	1/939
12V	Rated Torque (Kg.cm)	0.3	0.75	1.0	1.4	1.9	2.3	3.3	4.6	6.5	7.3	10	12	12	12
	Rated Speed (rpm)	995	373	270	195	150	104	74	53	38	28	20	11.2	8.3	6.3
24V	Rated Torque (Kg.cm)	0.3	0.7	1.0	1.4	1.8	2.2	3.1	4.4	6.1	6.9	9.7	12	12	12
	Rated Speed (rpm)	990	370	265	191	150	103	74	53	38	28	20	11.2	8.3	6.3
	Rotation Direction	CCW													
	Length(L-mm)	20.6	27.0				33.4				39.8				

DC Motor Specifications

Rated Voltage (V)	Rated Torque (g.cm)	Rated Speed (rpm)	Rated Current (mA)	No Load Speed (rpm)	No Load Current (mA)	Weight (g)
12	78	5290	<=530	6500	<=150	73.0
24	74	5250	<=250	6500	<=85	73.0

* Specification can be customized as the inquiry. Contact: sales@ichmo.com



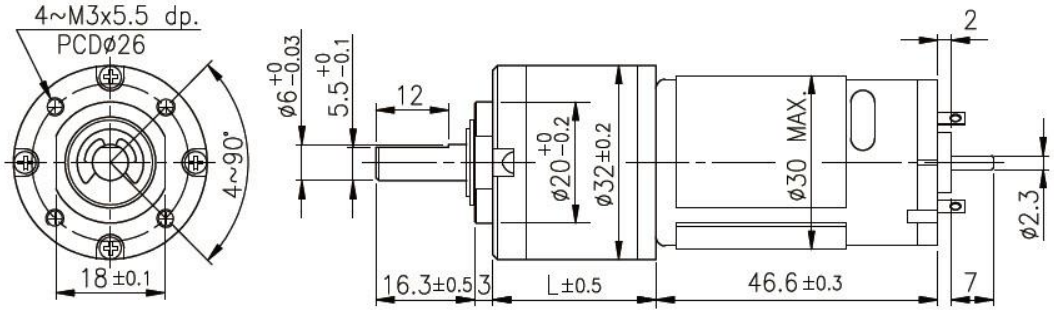


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DP323-03&04



Appearance Size



unit:mm

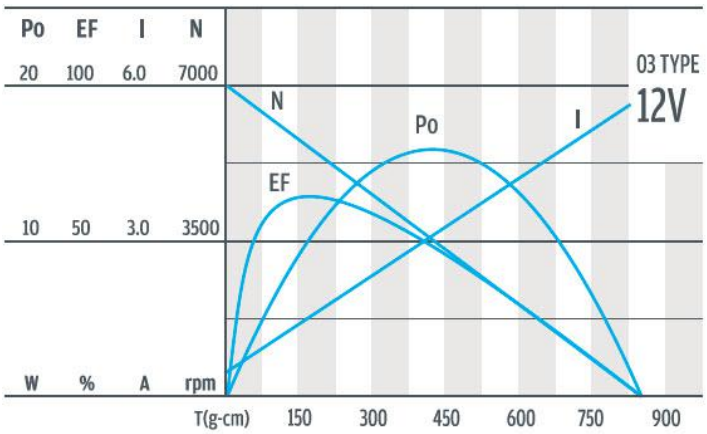
DC Motor + Gearbox Specifications

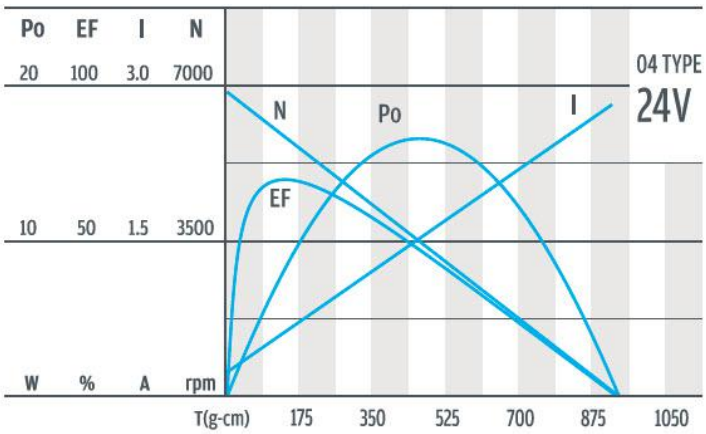
	Reduction Ratio	1/5	1/14	1/19	1/27	1/35	1/51	1/71	1/100	1/139	1/189	1/264	1/516	1/721	1/939
12V	Rated Torque (Kg.cm)	0.45	1.1	1.5	2.1	2.7	3.4	4.7	6.6	9.1	10	12	12	12	12
	Rated Speed (rpm)	1140	430	310	221	170	117	83	60	44	32	24	12.9	9.5	7.2
24V	Rated Torque (Kg.cm)	0.54	1.2	1.7	2.4	3.1	4.0	5.5	7.8	10	12	12	12	12	12
	Rated Speed (rpm)	1170	445	320	229	176	121	87	62	45	34	25	13	9.6	7.2
	Rotation Direction	CCW													
	Length(L-mm)	20.6	27.0				33.4				39.8				

DC Motor Specifications

Rated Voltage (V)	Rated Torque (g.cm)	Rated Speed (rpm)	Rated Current (mA)	No Load Speed (rpm)	No Load Current (mA)	Weight (g)
12	110	5950	<=900	7300	<=150	110
24	130	6160	<=500	7300	<=85	110

* Specification can be customized as the inquiry. Contact: sales@ichmo.com



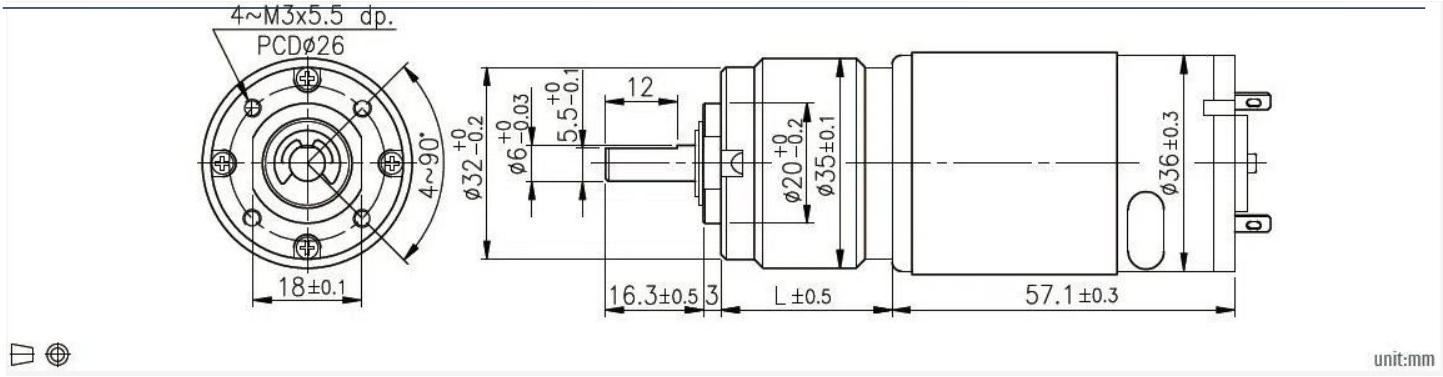


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Appearance Size

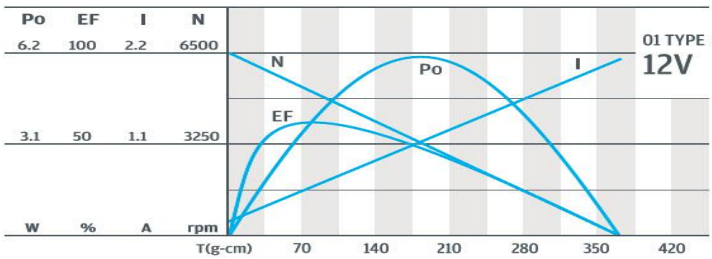


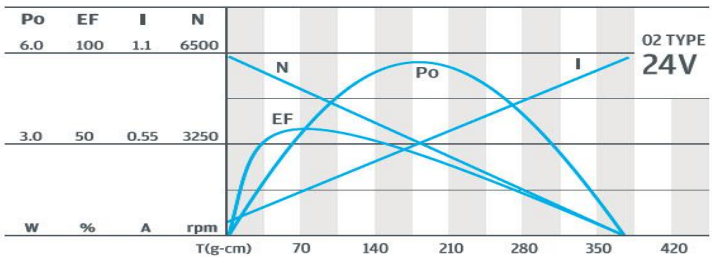
DC Motor + Gearbox Specifications

	Reduction	1/5	1/14	1/19	1/27	1/51	1/71	1/100	1/139	1/189	1/264	1/516	1/721
12V	Rated	1.0	2.4	3.3	4.7	7.6	8	10	10	12	12	12	12
	Rated	950	359	257	183	97	71.5	52	39	29	21	11	8
24V	Rated	1.0	2.3	3.2	4.5	7.3	8	10	10	12	12	12	12
	Rated	990	375	268	192	101	74.5	54	40	29.5	22	11.5	8
	Rotation	CCW											
	Length(L-mm)	22.1	28.5			34.9				41.3			

DC Motor Specifications

Rated volt(V)	Rated torque(g.cm)	Rated speed(rpm)	Rated current(mA)	No load speed(rpm)	No load current(mA)	Weight(g)
12	250	4930	<=1600	6000	<=250	220
24	240	5150	<=750	6000	<=130	220





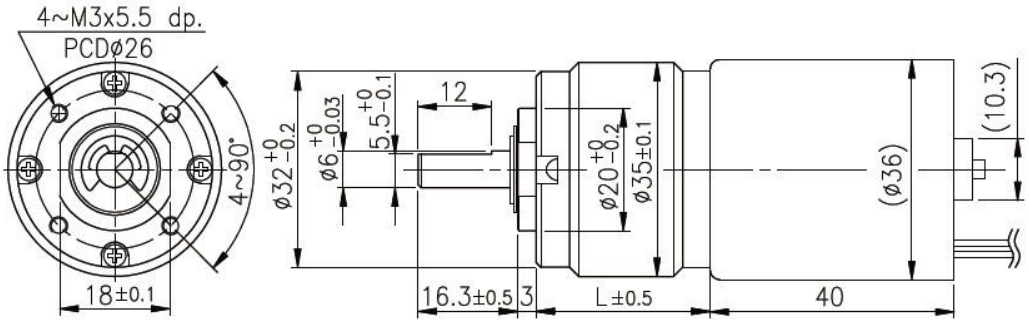
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DP323PH-41&42



Appearance Size



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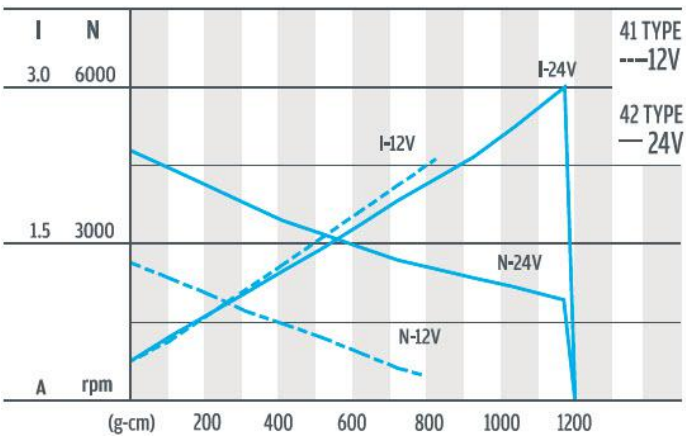
DC Motor + Gearbox Specifications

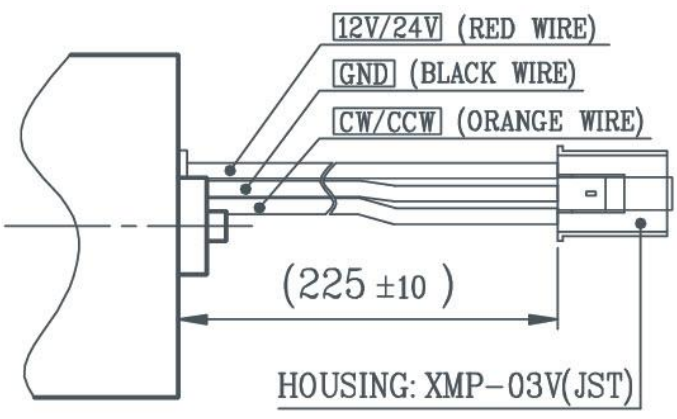
	Reduction Ratio	1/13	1/18	1/25	1/48	1/68	1/94	1/132	1/180	1/250	1/349	1/491	1/683
12V	Rated Torque (g.cm)	1.8	2.5	3.5	5.8	8	10	10	12	12	12	12	12
	Rated Speed (rpm)	150	109	75	41	29.5	21.5	15.5	12	8.4	6.5	4.4	3.3
24V	Rated Torque (g.cm)	2.2	3.1	4.4	7.2	8	10	10	12	12	12	12	12
	Rated Speed (rpm)	295	210	150	80	58	41.5	30	23	16.3	12	8.4	6.1
	Rotation Direction	CW											
	Length(L-mm)	28.5			34.9				41.3				

DC Motor Specifications

Rated Voltage (V)	Rated Torque (g.cm)	Rated Speed (rpm)	Rated Current (mA)	No Load speed (rpm)	No Load current (mA)	Weight (g)
12	200	2000	<=1000	2800	<=350	145
24	250	3900	<=1230	5000	<=400	145

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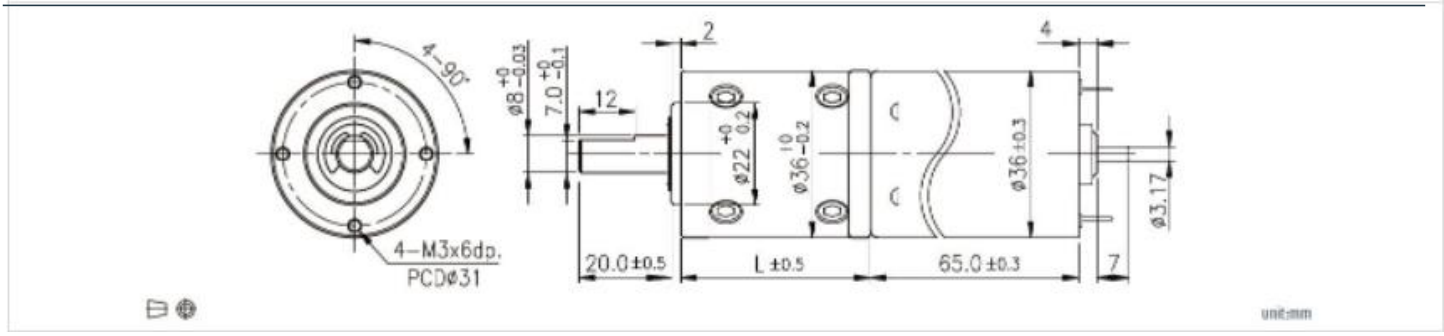


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Appearance Size

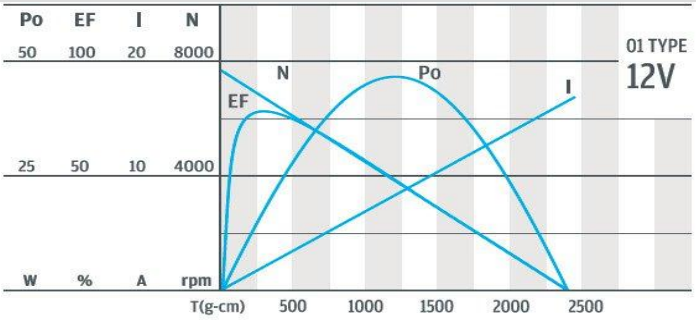


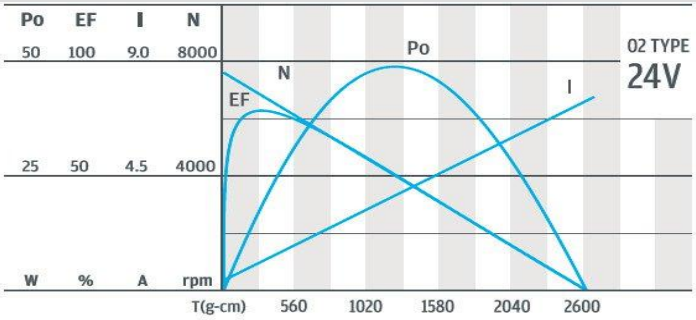
DC Motor + Gearbox Specifications

	Reduction ratio	1/5	1/1	1/1	1/2	1/5	1/7	1/10	1/13	1/18	1/26	1/516	1/721
1	Rated torque(Kg.	1.1	2.5	3.6	5	8.2	11.	16	20	25	25	30	30
2	Rated speed(rpm	1250	475	340	243	129	92	66	47.2	34.8	25.1	13.2	9.5
2	Rated torque(Kg.	1.1	2.7	3.8	5.3	8.7	12	17	20	25	25	30	30
4	Rated speed(rpm	1240	470	335	240	127	91	65	46.5	34.3	24.8	13	9.4
	Rotation directio	CCW											
	Length（L-mm）	33.1	41.8			50.5				59.2			

DC Motor Specifications

Rated volt(V)	Rated torque（g.cm）	Rated speed(rpm)	Rated current(mA)	No load speed(rpm)	No load current(mA)	Weight(g)
12	270	6570	<=2050	7500	<=300	222
24	285	6480	<=1050	7500	<=210	224





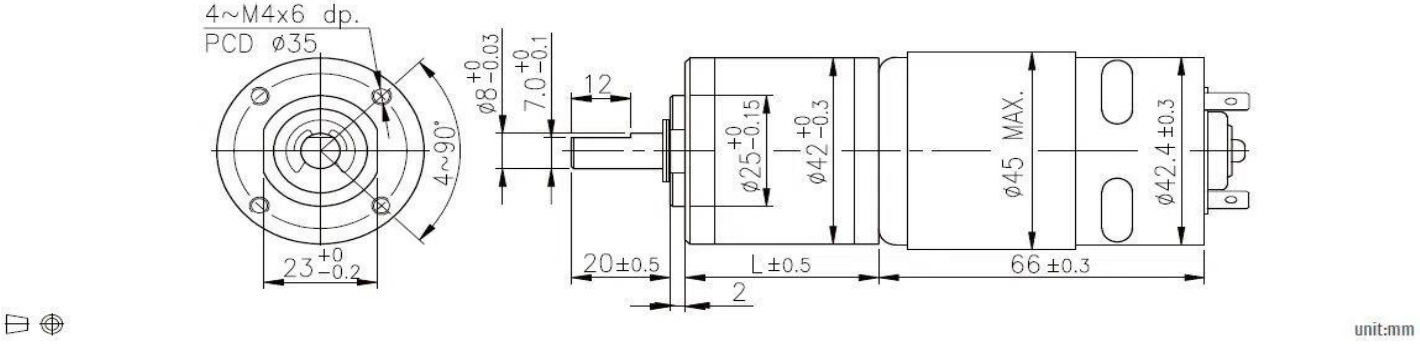
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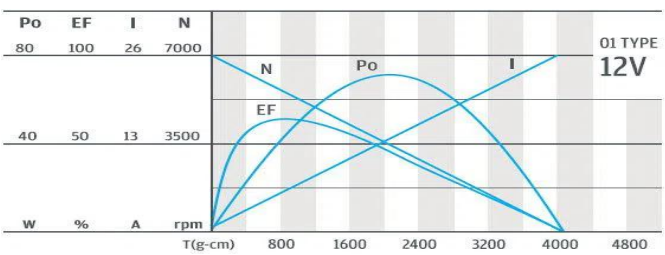


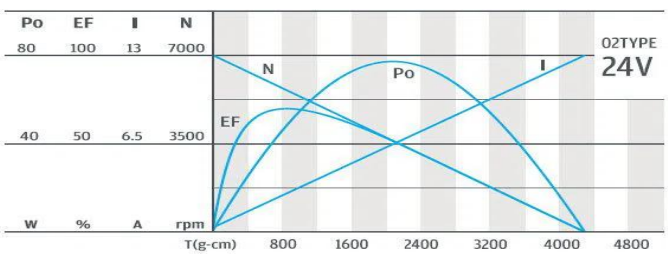
DC Motor + Gearbox Specifications

	Reduction ratio	1/4	1/14	1/17	1/24	1/49	1/84	1/104	1/144	1/212	1/294	1/504	1/624	1/720	1/864	1/1062	1/1470
12V	Rated torque(g.c	2.2	6.5	8	8	18	18	20	20	25	25	30	30	30	30	30	30
	Rated speed(rpm)	1400	405	325	248	120	98	63	45	31	22	13.5	10.9	9.5	8.0	6.5	4.6
24V	Rated torque(g.c	1.8	5.4	6.6	8	16	18	20	20	25	25	30	30	30	30	30	30
	Rated speed(rpm)	1440	420	340	246	122	102	63	47	31	21.8	13.5	10.9	9.5	8.0	6.5	4.6
	Rotation direction	CCW															
	Length (L-mm)	32.5			39.2				45.9				52.6				59.6

DC Motor Specifications

Rated volt(V)	Rated torque(g.cm)	Rated speed(rpm)	Rated current(mA)	No load speed(rpm)	No load current(mA)	Weight(g)
12	700	5700	<=5500	7000	<=900	360
24	570	5900	<=2100	7000	<=500	360





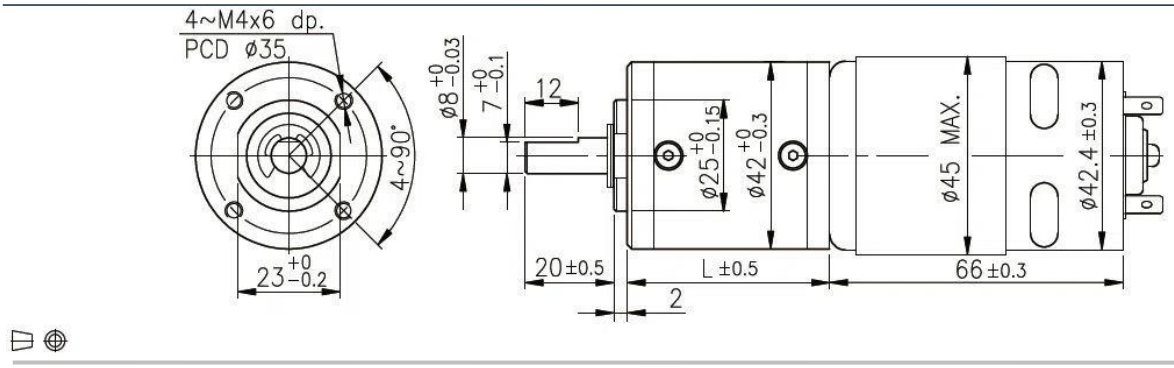
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Appearance Size



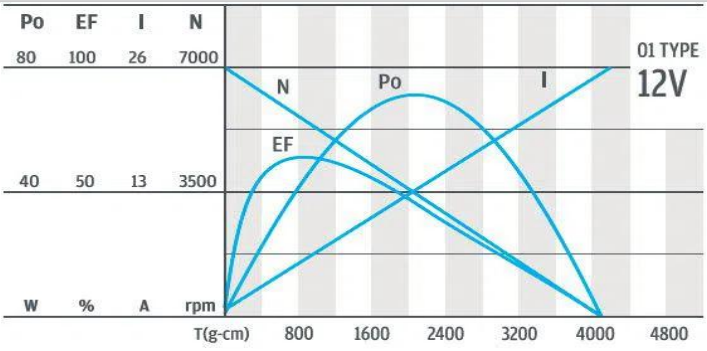
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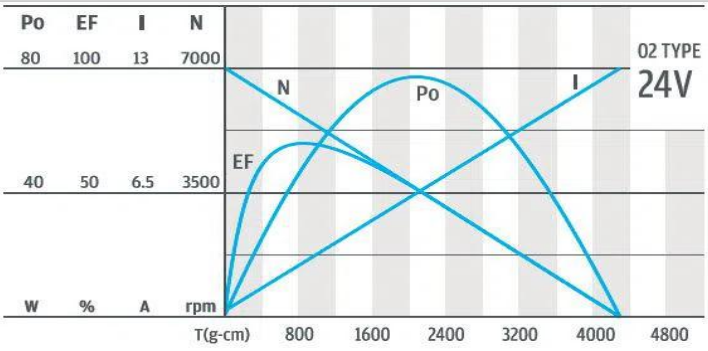
DC Motor + Gearbox Specifications

	Reduction ratio	1/4	1/14	1/17	1/24	1/49	1/84	1/104	1/144	1/212	1/294	1/504	1/624	1/720	1/864	1/1062	1/1470
12V	Rated torque(g.cm	2.2	6.5	8	8	18	18	20	20	25	25	30	30	30	30	30	30
	Rated speed(rpm)	1400	405	325	248	120	76	63	45	31	22	13.5	10.9	9.5	8.0	6.5	4.6
24V	Rated torque(g.cm	1.8	5.4	6.6	8	16	18	20	20	25	25	30	30	30	30	30	30
	Rated speed(rpm)	1445	420	340	246	122	77.5	63	47	31	21.8	13.5	10.9	9.5	8.0	6.5	4.6
	Rotation direction	CCW															
	Length(L-mm)	32.5	39.2			45.9				52.6						59.6	

DC Motor Specifications

Rated volt(V)	Rated torque（g.cm）	Rated speed(rpm)	Rated current(mA)	No load speed(rpm)	No load current(mA)	Weight(g)
12	700	5700	<=5500	7000	<=900	360
24	570	5900	<=2100	7000	<=500	360





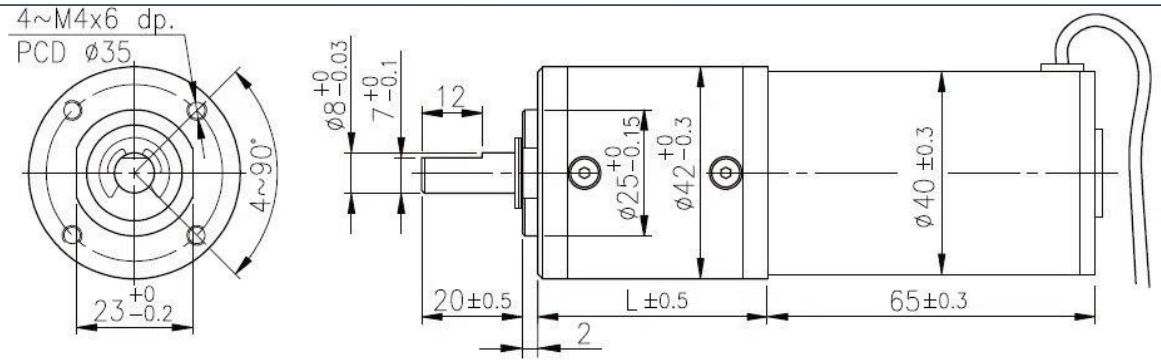
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Appearance Size



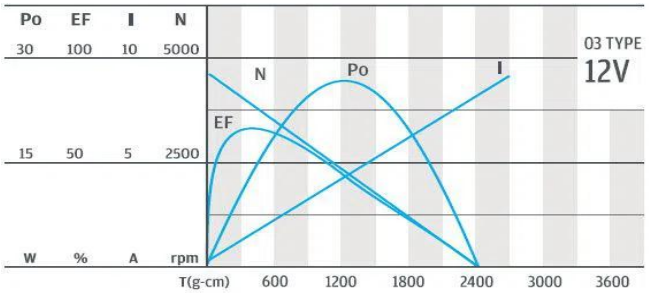
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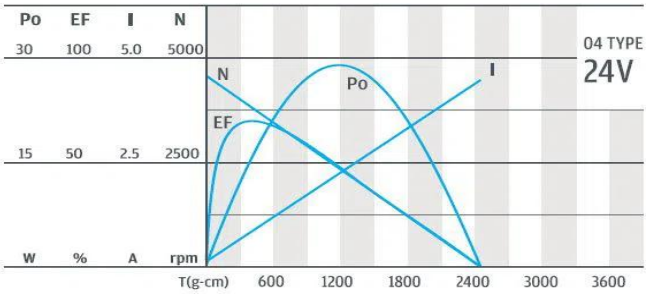
DC Motor + Gearbox Specifications

	Reduction ratio	1/4	1/14	1/17	1/24	1/49	1/84	1/104	1/144	1/212	1/294	1/504	1/624	1/720	1/864	1/1062	1/1470
12V	Rated torque(g.cm)	1.3	4.0	5.0	7.0	12	18	20	20	25	25	30	30	30	30	30	30
	Rated speed(rpm)	930	265	210	150	76	45	37	27	18.5	14	8.3	6.9	5.9	4.9	4.0	4.0
24V	Rated torque(g.cm)	1.0	3.0	4.0	5.5	10	17	20	20	25	25	30	30	30	30	30	30
	Rated speed(rpm)	945	270	215	155	76	45	36	27	18.5	14	8.3	6.9	5.9	4.9	6.54.0	4.0
	Rotation direction	CW															
	Length(L-mm)	32.5	39.2			45.9				52.6						59.6	

DC Motor Specifications

Rated volt(V)	Rated torque(g.cm)	Rated speed(rpm)	Rated current(mA)	No load speed(rpm)	No load current(mA)	Weight(g)
12	430	3750	<=2000	4500	<=500	310
24	350	3800	<=820	4500	<=220	310





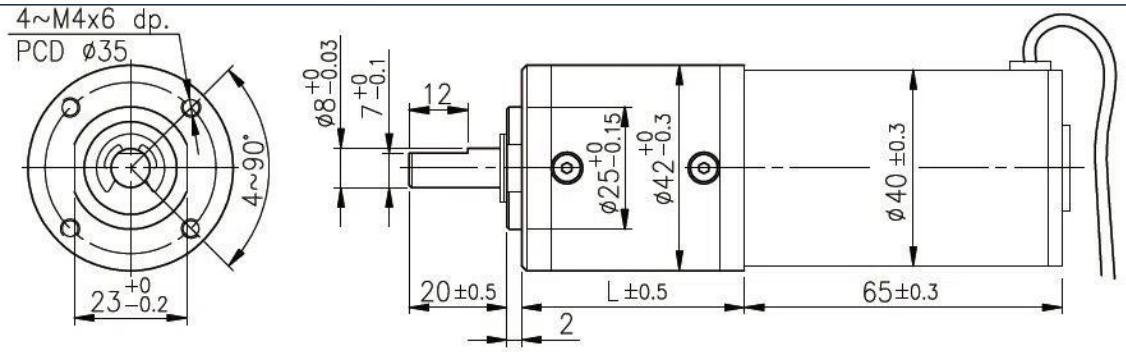
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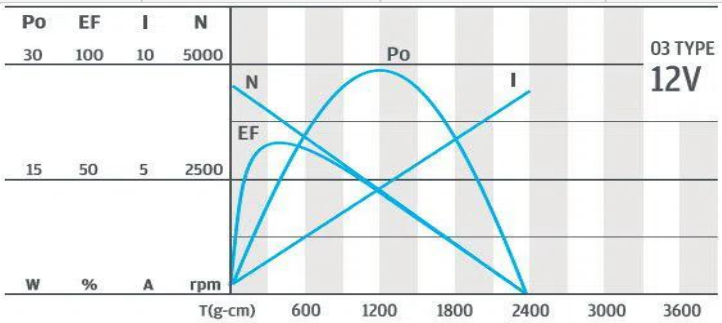
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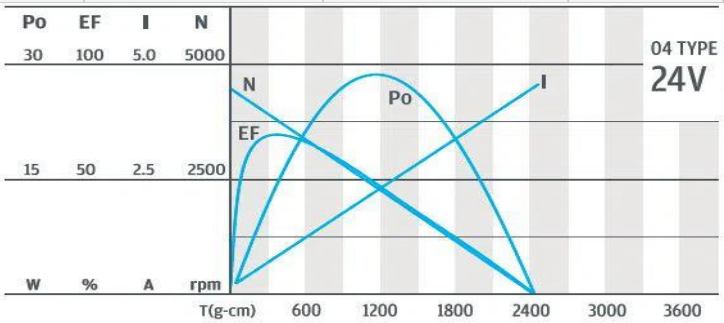
DC Motor + Gearbox Specifications

	Reduction ratio	1/15	1/17	1/20	1/25	1/64	1/84	1/100	1/120	1/180	1/222	1/294	1/500	1/600	1/720	1/1062	1/1470
12V	Rated torque(g.c	4.4	5.0	6.0	7.6	16	18	20	20	25	25	25	30	30	30	30	30
	Rated speed(rpm)	250	220	187	148	59	45	38	32	21.3	2.13	13.4	8	6.7	5.6	3.8	2.7
24V	Rated torque(g.c	3.2	4.1	4.9	6.2	13	17	20	20	25	25	25	30	30	30	30	30
	Rated speed(rpm)	255	223	190	150	59	45	38	31.8	18.5	21.2	13.4	8	6.7	5.6	3.8	2.7
	Rotation direction	CW															
	Length(L-mm)	39.2				45.9				52.6						59.6	

DC Motor Specifications

Rated	Rated torque	Rated	Rated	No load	No load	Weight(g)
12	430	3750	<=2000	4500	<=500	310
24	350	3800	<=820	4500	<=220	310





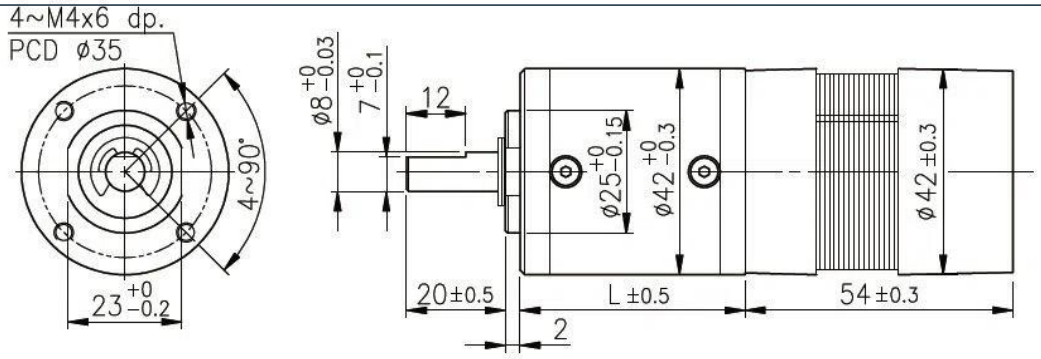
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Appearance Size



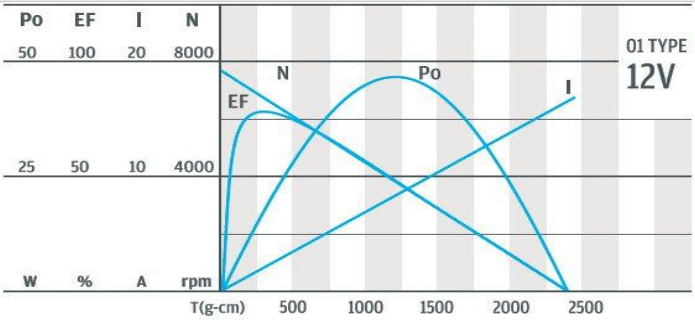
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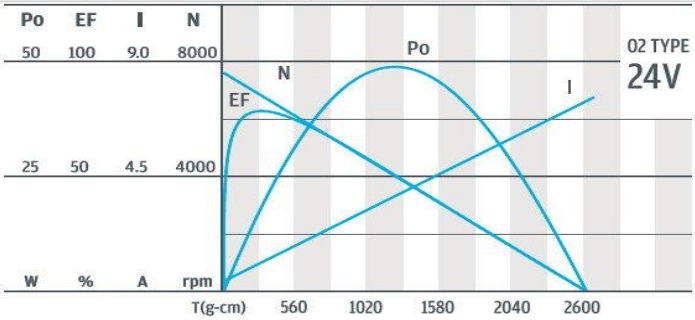
DC Motor + Gearbox Specifications

	Reduction ratio	1/15	1/17	1/20	1/25	1/64	1/84	1/100	1/120	1/180	1/222	1/294	1/500	1/600	1/720	1/1062	1/1470
12V	Rated torque(g.cm)	2.0	2.3	2.8	3.5	7.5	10	12	14	18	22	25	30	30	30	30	30
	Rated speed(rpm)	200	175	150	115	47	35	30	25	16	13	10	6.2	5.7	4.5	3.0	2.3
24V	Rated torque(g.cm)	3.6	4.3	5.0	6.5	14	18	20	20	25	25	25	30	30	30	30	30
	Rated speed(rpm)	300	260	220	170	69	52	44	37	25	25	15.2	8.9	7.5	6.3	4.3	3.1
	Rotation direction	CW															
	Length(L-mm)	39.2				45.9				52.6							59.6

DC Motor Specifications

Rated	Rated torque（g.cm）	Rated	Rated	No load	No load	Weight(g)
12	200	3000	<=800	3700	<=160	260
24	370	4400	<=1000	5000	<=250	260





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