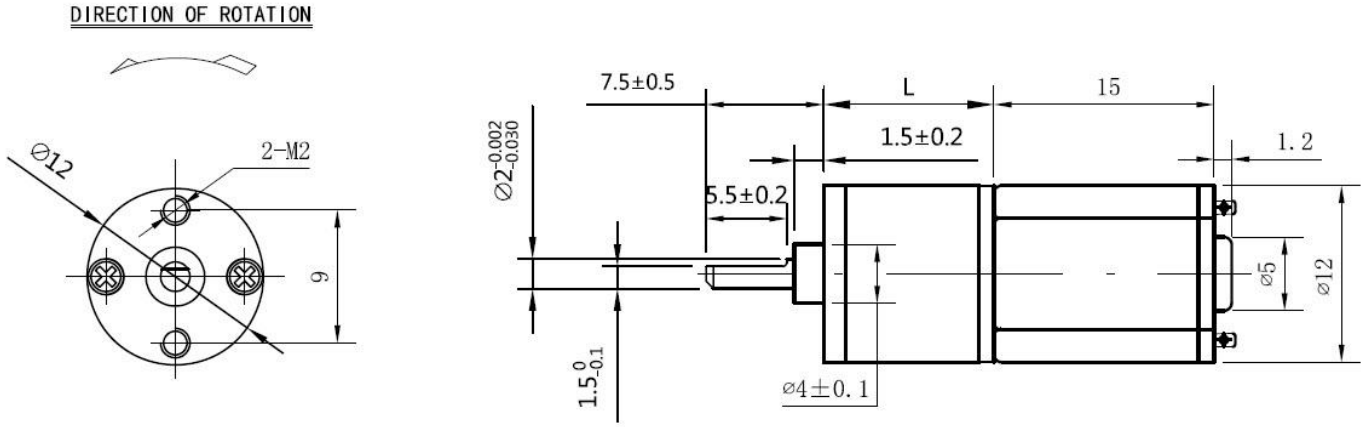
DS122A1-01&02



Appearance Size



Gearbox Specifications

Number of Stages	3	4	5	6	7	8
Reduction Ratio	9.6	24	48	120	240	600
	12	30	60	150	300	750
			75	187.5	375	937.5
					468.8	1172
Length of Gearbox (mm)	10.8		13.0	14.4	16.6	18.8

DC Motor + Gearbox Specifications

Model	Rated voltage (V)	Rated Torque (kg.cm)	Rated Speed (rpm)	Rated Current (mA)	Output Power (mW)	Torque at Stall (Kg.cm)	Current at Stall (mA)	No Load Speed (rpm)	No Load Current (mA)
D122-000030	2.4	0.06	300	250	190	0.3	1200	450	70
D122-001060	3.0	0.08	140	150	110	0.5	600	180	60
D122-002150	3.0	0.17	55	200	100	1.2	600	70	60
D122-002300	3.0	0.2	25	80	50	2	300	25	40

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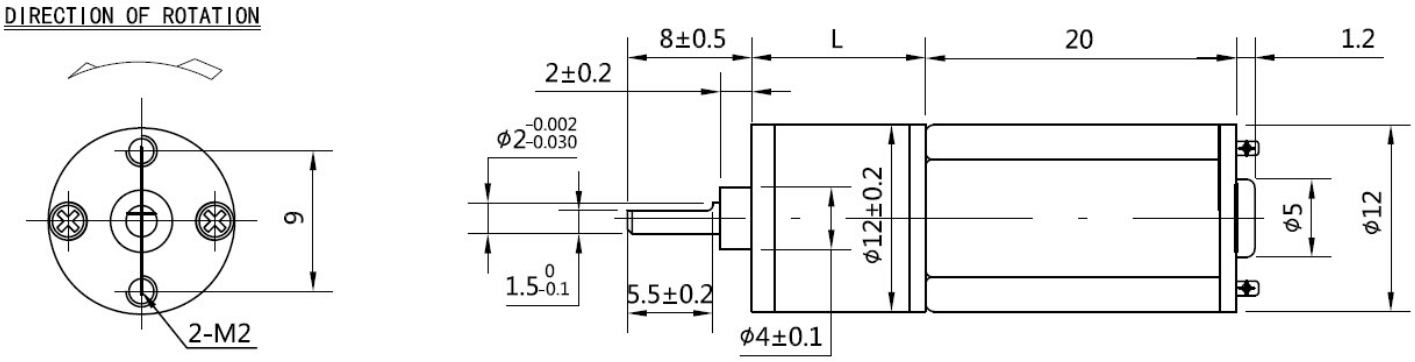
DS122A2-01&02



Appearance Size



Gearbox Specifications

Number of Stages	3	4	5	6	7	8
Reduction Ratio	9.6	24	48	120	240	600
	12	30	60	150	300	750
			75	187.5	375	937.5
					468.8	1172
Length of Gearbox (mm)	10.8		13.0	14.4	16.6	18.8

DC Motor + Gearbox Specifications

Model	Rated Voltage (V)	Rated Torque (kg.cm)	Rated Speed (rpm)	Rated Current (mA)	Output Power (mW)	Torque at Stall (Kg.cm)	Current at Stall (mA)	No Load Speed (rpm)	No Load Current (mA)
D122-001030	12.0	0.09	300	90	280	0.4	400	400	40
D122-002060	6.0	0.08	80	80	120	0.35	300	100	30
D122-001120	3.0	0.1	40	100	40	0.6	400	50	50
D122-003300	6.0	0.29	30	180	90	2	600	40	60

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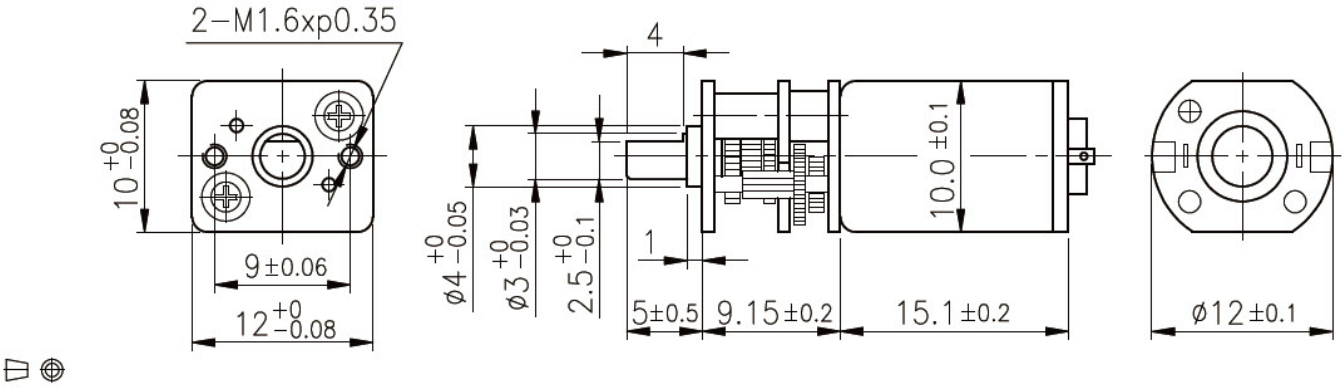
DS122F-01&02



Appearance Size & Motor Installation



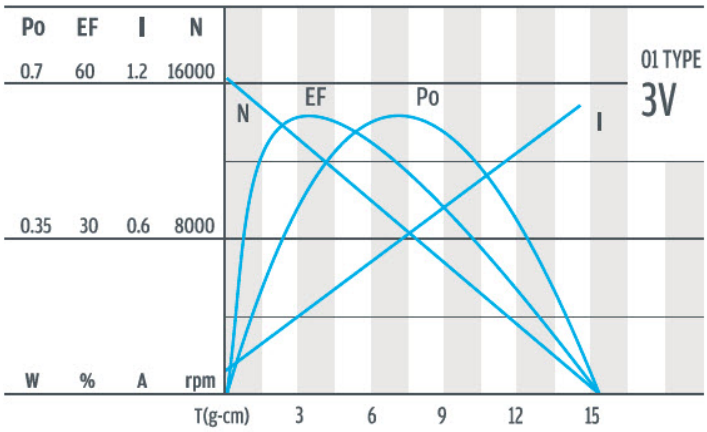
unit:mm

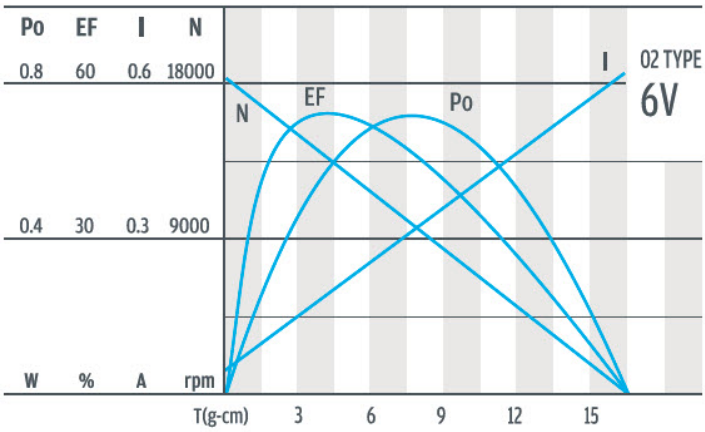
DC Motor + Gearbox Specifications

	Reduction Ratio	1/10	1/19	1/29	1/60	1/76	1/102	1/134	1/197	1/235	1/298
3V	Rated Torque(g.cm)	15	25	40	75	100	120	155	230	275	350
	Rated Speed(rpm)	1400	720	480	230	180	135	100	70	59	46
6V	Rated Torque(g.cm)	24	40	60	115	150	200	235	345	410	520
	Rated Speed(rpm)	1450	770	510	245	195	145	110	75	63	50
	Rotation Direction	CW	CCW		CW			CCW			

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)
3.0	2.0	14000	<=250	16000	<=80	5.5
6.0	3.0	14900	<=170	18000	<=50	5.5





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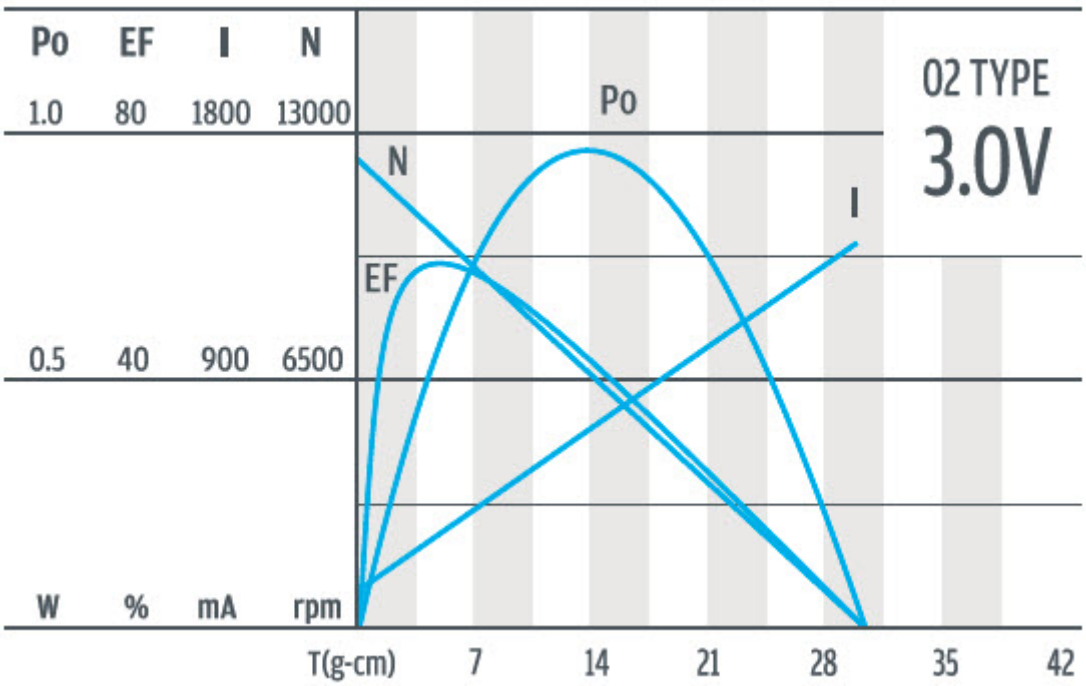

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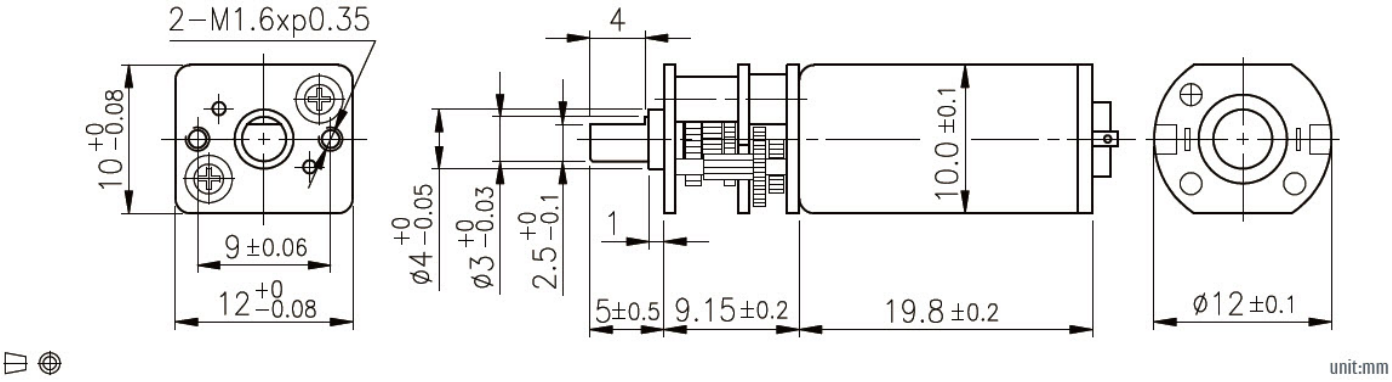
DS122F-03&04



Appearance Size

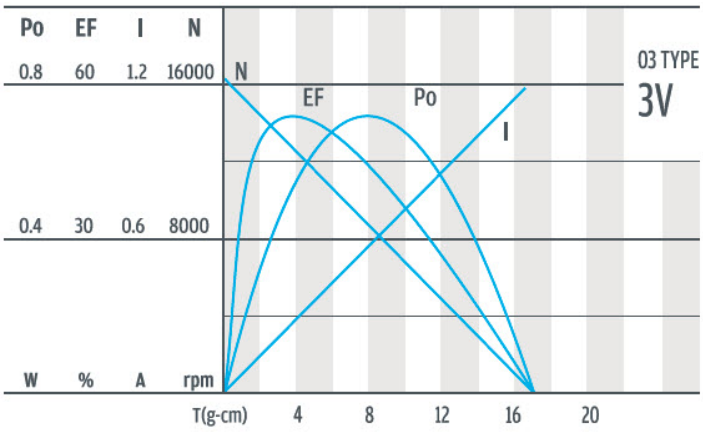


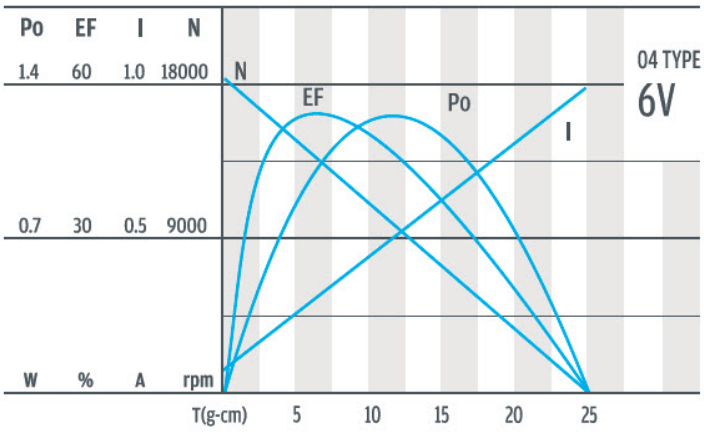
DC Motor + Gearbox Specifications

	Reduction Ratio	1/10	1/19	1/29	1/60	1/76	1/102	1/134	1/197	1/235	1/298
3V	Rated Torque(g.cm)	24	40	60	115	150	200	235	345	415	525
	Rated Speed(rpm)	1300	700	460	225	175	132	100	68	57	45
6V	Rated Torque(g.cm)	30	55	80	155	200	270	300	460	530	700
	Rated Speed(rpm)	1500	780	510	250	195	145	112	76	64	50
	Rotation Direction	CW	CCW		CW			CCW			

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)
3.0	3.0	13500	<=310	16000	<=90	7.5
6.0	4.0	15000	<=250	18000	<=65	7.5





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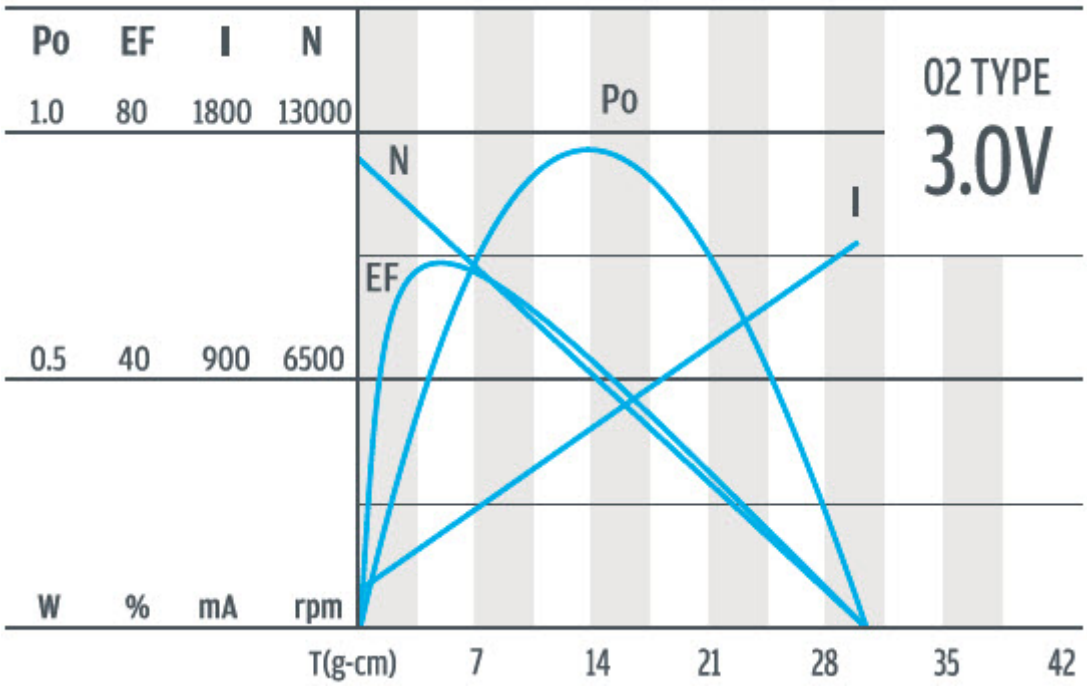

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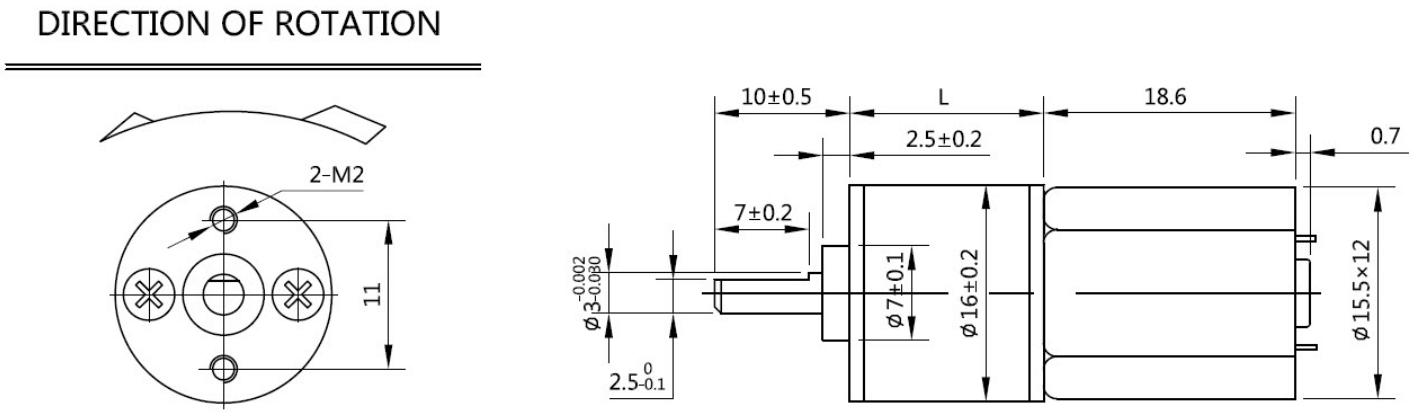
DS162A1-01&02



Appearance Size



Gearbox Specifications

Number of Stages	3	4	5	6	7	
Reduction Ratio	11.1	22.2	83.3	200	600	
	16.7	33.3	100	250	750	
		50	150	300	900	
				450	1350	
Length of Gearbox (mm)	12.8		14.2	15.6	17.9	

DC Motor + Gearbox Specifications

Model	Rated Voltage (V)	Rated Torque (kg.cm)	Rated Speed (rpm)	Rated Current (mA)	Output Power (mW)	Torque at Stall (Kg.cm)	Current at Stall (mA)	No Load Speed (rpm)	No Load Current (mA)
D162-003100	3.0	0.3	52	170	160	0.8	450	70	60
D162-001050	6.0	0.12	200	250	250	1.0	700	250	80
D162-006200	6.0	0.55	45	250	250	3.0	700	60	80
D162-007300	6.0	0.7	25	180	180	4.0	500	35	60

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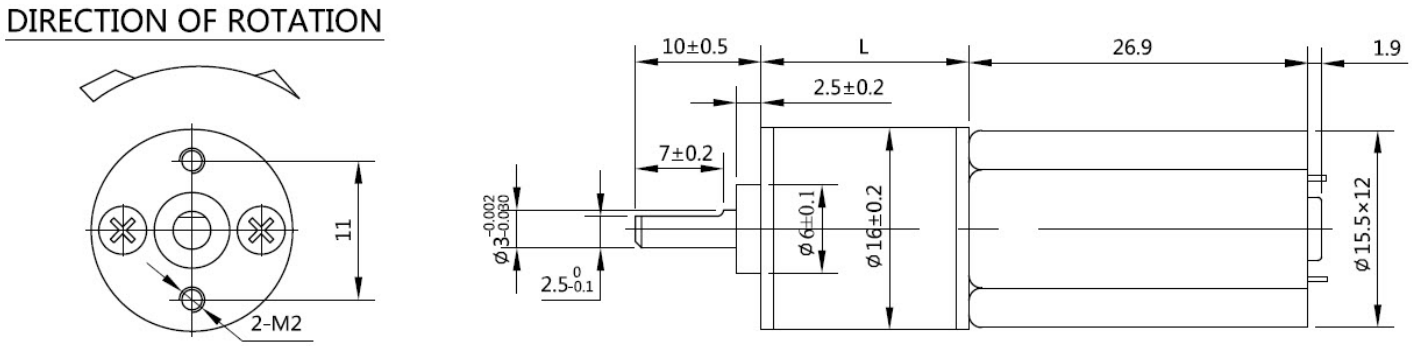
DS162A2-01&02



Appearance Size



Gearbox Specifications

Number of Stages	3	4	5	6	7	
Reduction Ratio	11.1	22.2	83.3	200	600	
	16.7	33.3	100	250	750	
		50	150	300	900	
				450	1350	
Length of Gearbox (mm)	12.8		14.2	15.6	17.9	

DC Motor + Gearbox Specifications

Model	Rated Voltage (V)	Rated torque (kg.cm)	Rated speed (rpm)	Rated current (mA)	Output Power (mW)	Torque at Stall (Kg.cm)	Current at Stall (mA)	No Load Speed (rpm)	No Load Current (mA)
D162-002033	12.0	0.15	290	170	450	1.0	700	350	50
D162-002050	12.0	0.24	180	170	450	1.5	700	230	50
D162-004100	12.0	0.48	85	120	420	2.5	400	110	40
D162-015250	12.0	1.5	25	120	380	4.0	400	32	40
D162-005100	6.0	0.5	90	260	460	2.5	900	115	80
D162-009200	6.0	0.9	46	290	420	4.0	900	60	80
D162-018450	6.0	1.8	16	200	300	4.0	800	20	60
D162-025750	6.0	2.5	10	200	280	4.0	800	12	60

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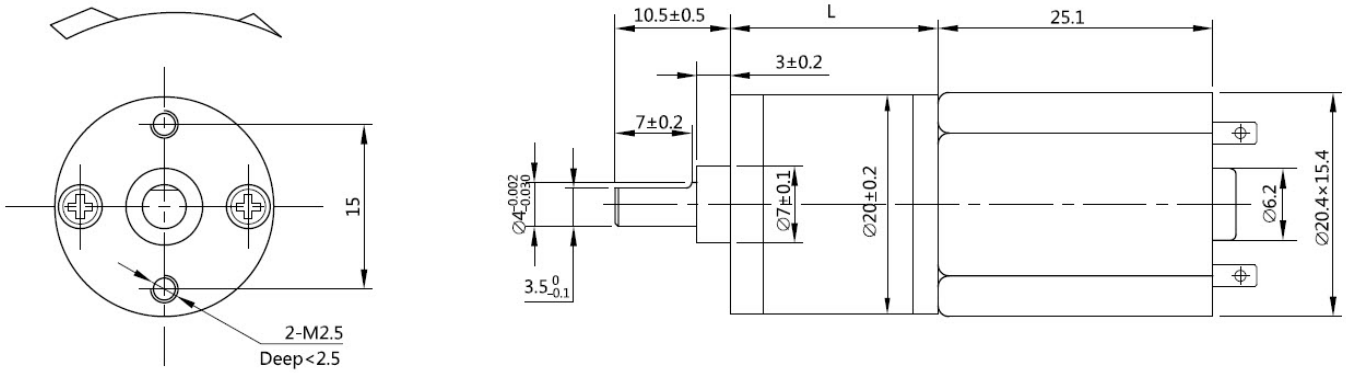
D202A1-01&02



Appearance Size

DIRECTION OF ROTATION



Gearbox Specifications

Number of Stages	3	4	5	6	7	
Reduction Ratio	10	25	50	100	250	
	12.5	31.25	62.5	125	312.5	
			78.1	156.25	390.6	
				195.3	488.3	
Length of Gearbox (mm)	16.0		17.5	19.0	20.5	

DC Motor + Gearbox Specifications

Model	Rated Voltage (V)	Rated Torque (kg.cm)	Rated Speed (rpm)	Rated Current (mA)	Output Power (mW)	Torque at Stall (Kg.cm)	Current at Stall (mA)	No Load Speed (rpm)	No Load Current (mA)
D202-002010	12.0	0.15	1000	350	1500	0.8	1500	1300	100
D202-004025	6.0	0.35	200	450	750	1.5	1300	270	140
D202-004062	12.0	0.4	100	200	410	2.5	500	140	60
D202-010156	6.0	1.0	50	400	500	4.5	1300	65	90
D202-012195	6.0	1.2	28	200	370	6.0	800	36	60
D202-040312	4.8	4.0	16	670	650	8.0	1800	24	150
D202-030488	6.0	3.0	12	290	370	8.0	900	15	80

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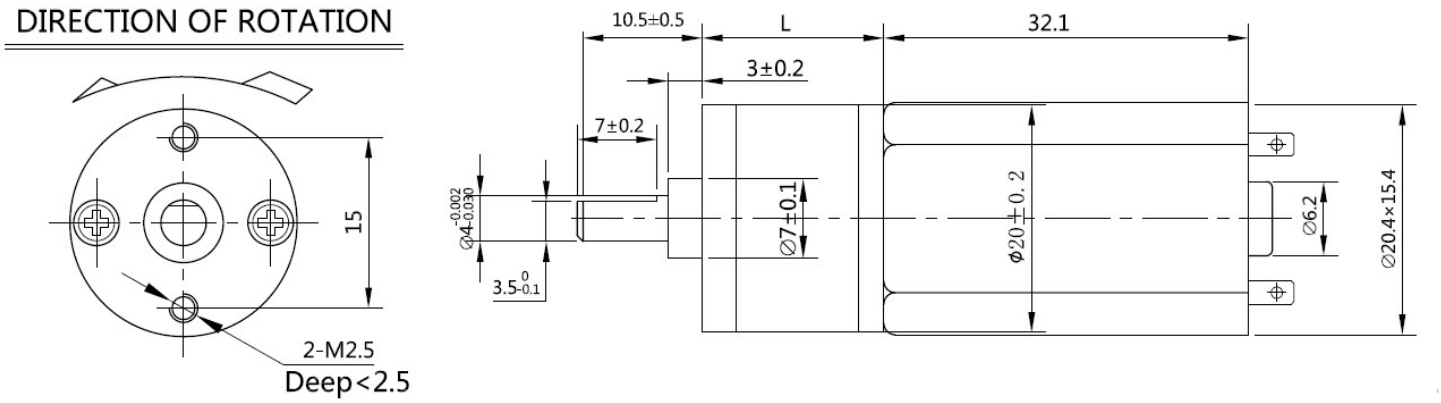
DS202A2-01&02



Appearance Size



Gearbox Specifications

Number of Stages	3	4	5	6	7	
Reduction Ratio	10	25	50	100	250	
	12.5	31.25	62.5	125	312.5	
			78.1	156.25	390.6	
				195.3	488.3	
Length of Gearbox (mm)	16.0		17.5	19.0	20.5	

DC Motor + Gearbox Specifications

Model	Rated Voltage (V)	Rated Torque (kg.cm)	Rated Speed (rpm)	Rated Current (mA)	Output Power (mW)	Torque at Stall (Kg.cm)	Current at Stall (mA)	No Load Speed (rpm)	No Load Current (mA)
D202-005010	6.0	0.5	190	450	1000	2.0	2000	240	80
D202-005010	12.0	1.8	65	400	1200	4.5	1800	80	90
D202-005010	6.0	3.9	20	450	800	6.0	2000	25	120
D202-005010	12.0	3.5	7	90	250	8.0	500	9	40
D202-005010	24.0	6.5	15	180	1000	8.0	800	19	50

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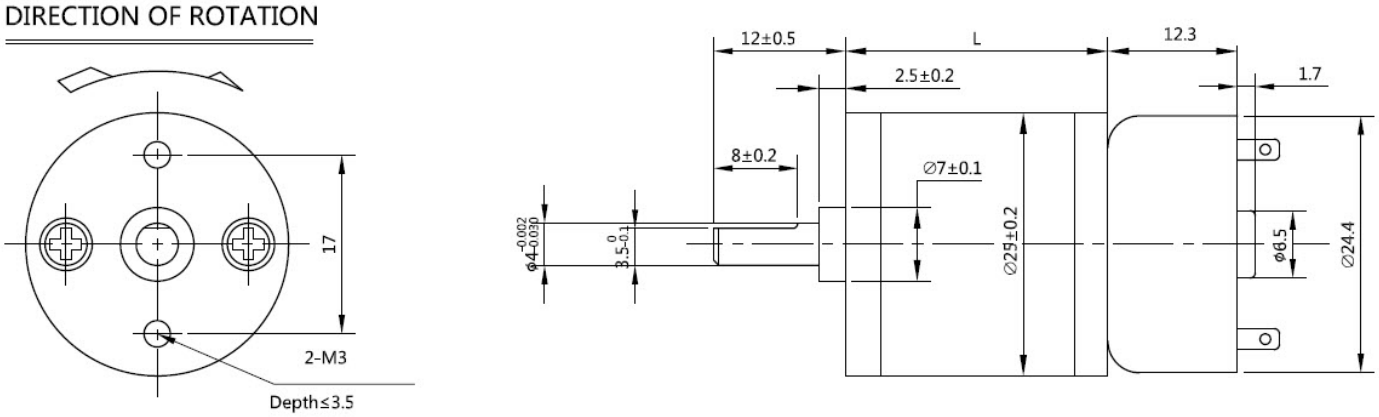
DS252A1-01&02



Appearance Size



Gearbox Specifications

Number of Stages	3	4	5	6	7	8
Reduction Ratio	9.7	16.1	26.9	59.2	130.1	286.3
	12.5	21.3	35.5	78.1	171.8	377.9
			46.9	103.1	226.8	498.9
Length of Gearbox (mm)	19.0		21.0	23.0	25.0	27.0

DC Motor + Gearbox Specifications

Model	Rated Voltage (V)	Rated Torque (kg.cm)	Rated Speed (rpm)	Rated Current (mA)	Output Power (mW)	Torque at Stall (Kg.cm)	Current at Stall (mA)	No Load Speed (rpm)	No Load Current (mA)
D252-003103	6.0	0.25	50	160	130	1.5	600	65	80
D252-007226	3.0	0.65	12	90	80	3.5	350	15	40
D252-005226	6.0	0.5	24	160	120	6.5	600	30	80
D252-017500	3.0	1.7	4	60	70	4.5	300	5	30

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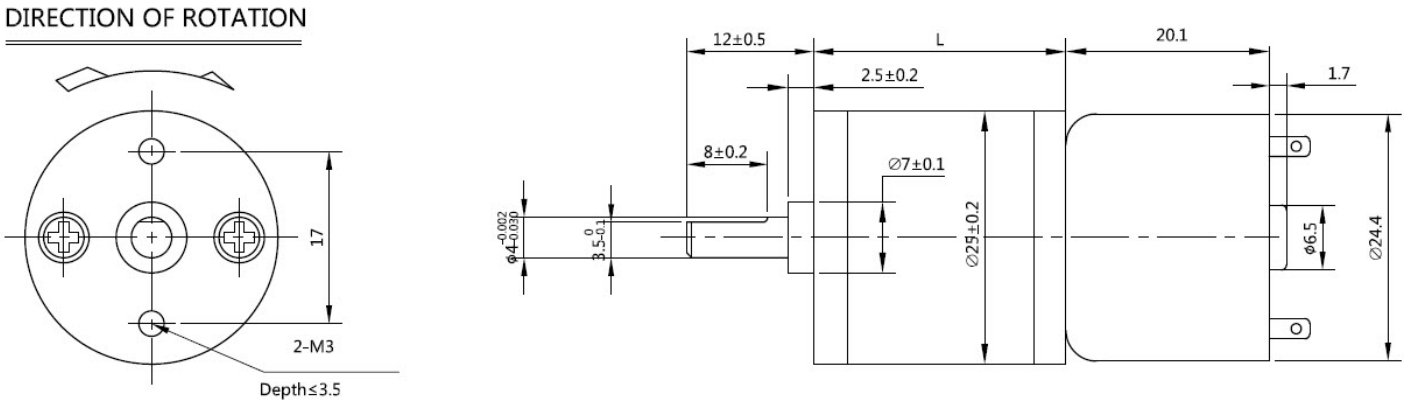
DS252A2-01&02



Appearance Size



Gearbox Specifications

Number of Stages	3	4	5	6	7	8
Reduction Ratio	9.7	16.1	26.9	59.2	130.1	286.3
	12.5	21.3	35.5	78.1	171.8	377.9
			46.9	103.1	226.8	498.9
Length of Gearbox (mm)	19.0		21.0	23.0	25.0	27.0

DC Motor + Gearbox Specifications

Model	Rated Voltage (V)	Rated Torque (kg.cm)	Rated Speed (rpm)	Rated Current (mA)	Output Power (mW)	Torque at Stall (Kg.cm)	Current at Stall (mA)	No Load Speed (rpm)	No Load Current (mA)
D252-001021	3.0	0.1	120	150	120	0.5	500	150	50
D252-001036	3.0	0.14	55	100	80	0.8	400	70	50
D252-003103	6.0	0.3	30	70	100	2.0	300	40	30
D252-006172	6.0	0.6	25	180	160	6.0	800	30	70
D252-008226	6.0	0.8	19	180	160	7.5	800	24	70
D252-020500	6.0	2.0	7	100	140	15.0	700	9	40

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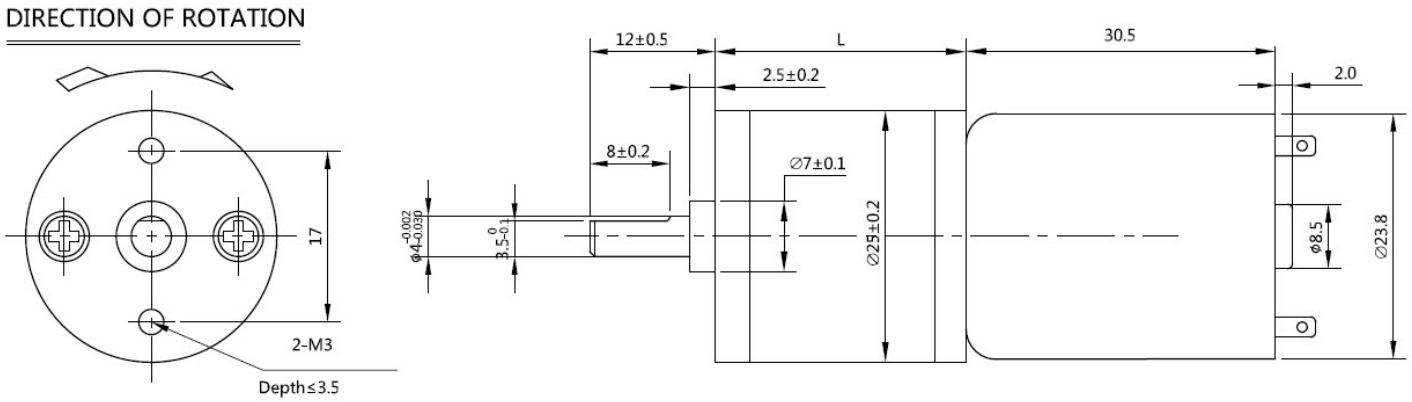
DS252A3-01&02



Appearance Size



Gearbox Specifications

Number of Stages	3	4	5	6	7	8
Reduction Ratio	9.7	16.1	26.9	59.2	130.1	286.3
	12.5	21.3	35.5	78.1	171.8	377.9
			46.9	103.1	226.8	498.9
Length of Gearbox (mm)	19.0		21.0	23.0	25.0	27.0

DC Motor + Gearbox Specifications

Model	Rated Voltage (V)	Rated Torque (kg.cm)	Rated Speed (rpm)	Rated Current (mA)	Output (mW)	Torque at Stall (Kg.cm)	Current at Stall (mA)	No Load Speed (rpm)	No Load Current (mA)
D252-012078	6.0	1.2	100	1000	1200	7.5	3000	125	160
D252-016103	12.0	1.6	65	400	1100	7.0	1500	85	100
D252-032226	12.0	3.2	30	500	1000	15.0	1500	38	100
D252-080226	12.0	8.0	50	600	4200	15.0	1500	64	200
D252-160500	12.0	16.0	24	550	4500	15.0	2000	30	200
D252-065500	12.0	6.5	14	500	1000	15.0	1500	17	100

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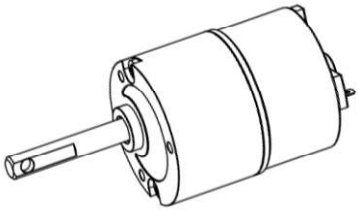
DS332





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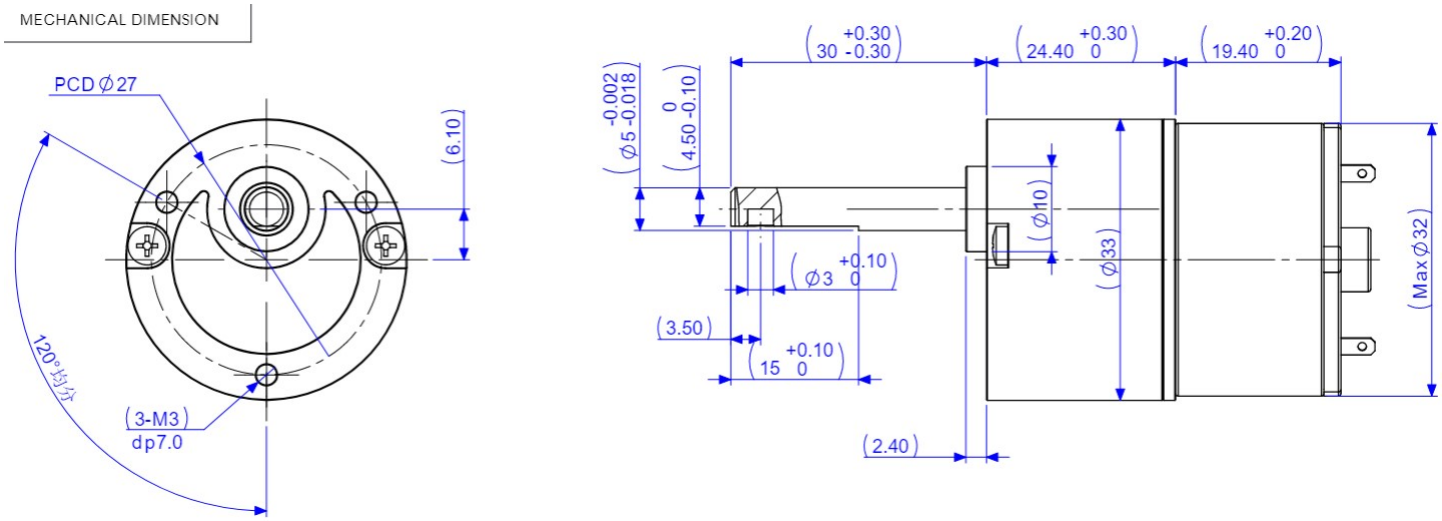

Gearbox Specifications

Number of Stages	2	3	4	5	6	7
Reduction Ratio	10	20	50	150	300	750
		30	60	180	350	900
			70	210	450	1050
			90	270	630	1350
Length of Gearbox (mm)	19.0	21.5	24.0	26.5	29.0	31.5

Gear Motor + Gearbox Specifications

Model	Rated Voltage (V)	Rated Torque (kg.cm)	Rated Speed (rpm)	Rated Current (mA)	Output Power (mW)	Torque at Stall (Kg.cm)	Current at Stall (mA)	No Load Speed (rpm)	No Load Current (mA)
D332-018050	24.0	1.8	145	220	3000	10.0	1000	180	50
D332-090490	24.0	9.0	11	100	1200	40.0	700	12	45
D332-050270	12.0	5.0	9	100	500	30.0	400	11	25
D332-018070A	12.0	1.8	48	150	1000	10.0	600	60	50
D332-018070B	12.0	1.8	80	320	1600	12.0	2000	96	100
D332-013030	12.0	1.3	230	600	3500	8.0	2600	280	100
D332-013050	6.0	1.3	125	850	1900	8.0	3500	152	170
D332-030090	12.0	3.0	48	320	2000	18.0	1500	60	50
D332-018050	24.0	1.8	100	150	2100	10.0	700	125	45

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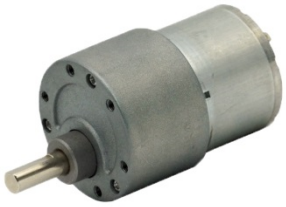
DS372B1-01&02



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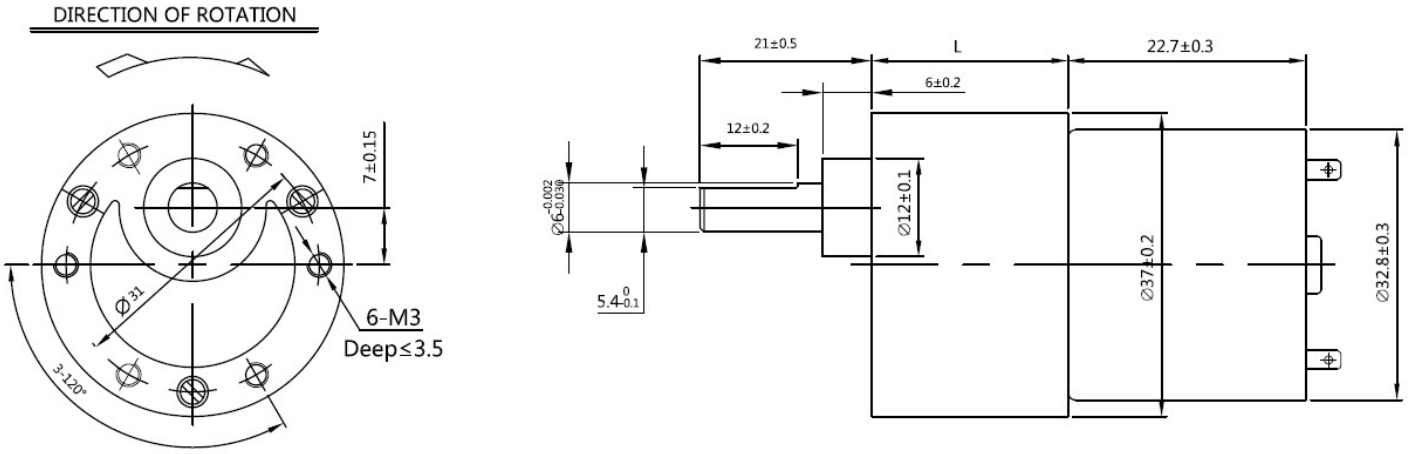

Gearbox Specifications

Number of Stages	2	3	4	5	6	7
Reduction Ratio	10	20	50	150	300	750
		30	60	180	350	900
			70	210	450	1050
			90	270	630	1350
Length of Gearbox (mm)	19.0	21.5	24.0	26.5	29.0	31.5

Gear Motor + Gearbox Specifications

Model	Rated Voltage (V)	Rated Torque (kg.cm)	Rated Speed (rpm)	Rated Current (mA)	Output Power (mW)	Torque at Stall (Kg.cm)	Current at Stall (mA)	No Load Speed (rpm)	No Load Current (mA)
D372-020050	24.0	2.0	145	220	3000	10.0	1000	180	50
D372-100490	24.0	10.0	11	100	1200	40.0	700	12	45
D372-060270	12.0	6.0	9	100	500	30.0	400	11	25
D372-020070A	12.0	2.0	48	150	1000	10.0	600	60	50
D372-020070B	12.0	2.0	80	320	1600	12.0	2000	96	100
D372-015030	12.0	1.5	230	600	3500	8.0	2600	280	100
D372-015050	6.0	1.5	125	850	1900	8.0	3500	152	170
D372-040090	12.0	4.0	48	320	2000	18.0	1500	60	50
D372-020050	24.0	2.0	100	150	2100	10.0	700	125	45

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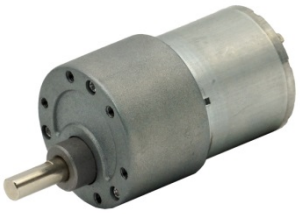

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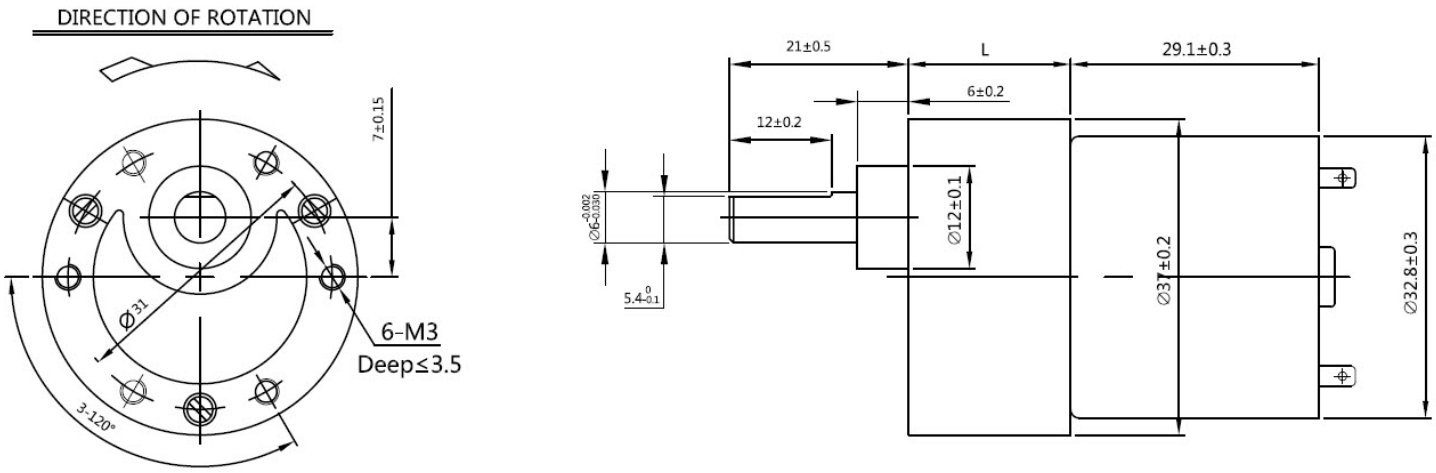

Gearbox Specifications

Number of Stages	2	3	4	5	6	7
Reduction Ratio	10	20	50	150	300	750
		30	60	180	350	900
			70	210	450	1050
			90	270	630	1350
Length of Gearbox (mm)	19.0	21.5	24.0	26.5	29.0	31.5

DC Motor + Gearbox Specifications

Model	Rated Voltage (V)	Rated Torque (kg.cm)	Rated Speed (rpm)	Rated Current (mA)	Output Power (mW)	Torque at Stall (Kg.cm)	Current at Stall (mA)	No Load Speed (rpm)	No Load Current (mA)
D372-005010	24.0	0.5	660	250	3500	3.0	600	780	50
D372-080270	24.0	8.0	18	150	1500	60.0	800	20	50
D372-050270	24.0	5.0	10	80	500	40.0	500	11	40
D372-090150	24.0	9.0	25	190	2300	28.0	700	32	50
D372-010030	24.0	1.0	145	110	1500	9.0	700	165	50
D372-020030	12.0	2.0	150	400	3100	8.0	1500	195	80
D372-040090	12.0	4.0	52	400	3100	22.0	1500	65	70
D372-090150	12.0	9.0	30	400	2700	25.0	1500	40	70
D372-030070	12.0	3.0	82	400	2500	18.0	1900	100	90

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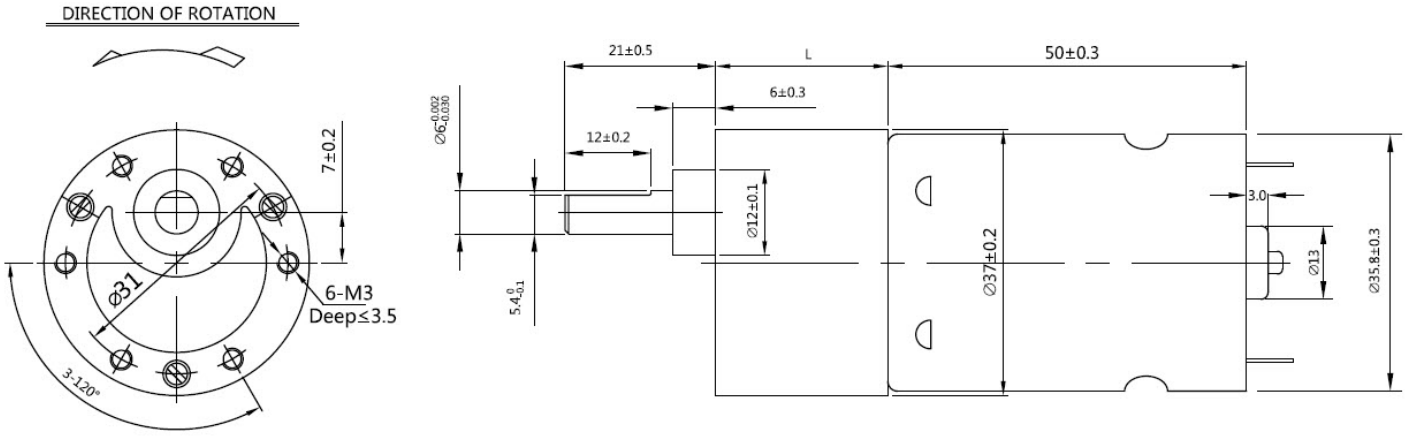
Appearance Size



Gearbox Specifications

Number of Stages	2	3	4	5	6	7
Reduction Ratio	10	20	50	150	300	750
		30	60	180	350	900
			70	210	450	1050
			90	270	630	1350
Length of Gearbox (mm)	19.0	21.5	24.0	26.5	29.0	31.5

DC Motor + Gearbox Specifications

Model	Rated Voltage (V)	Rated Torque (kg.cm)	Rated Speed (rpm)	Rated Current (mA)	Output Power (mW)	Torque at Stall (Kg.cm)	Current at Stall (mA)	No Load Speed (rpm)	No Load Current (mA)
D372-200210	12.0	20.0	13.5	450	2400	70.0	4000	17	0.13
D372-050050	24.0	5.0	130	520	6000	16.0	4000	140	0.15
D372-045030	24.0	4.5	85	150	4200	16.0	1200	110	0.10
D372-100450	24.0	10.0	7.0	150	700	70.0	1200	7.5	0.10
D372-050070	12.0	5.0	57	500	3000	50.0	4200	70	0.20
D372-035030	24.0	3.5	115	780	4100	25.0	3100	165	0.12

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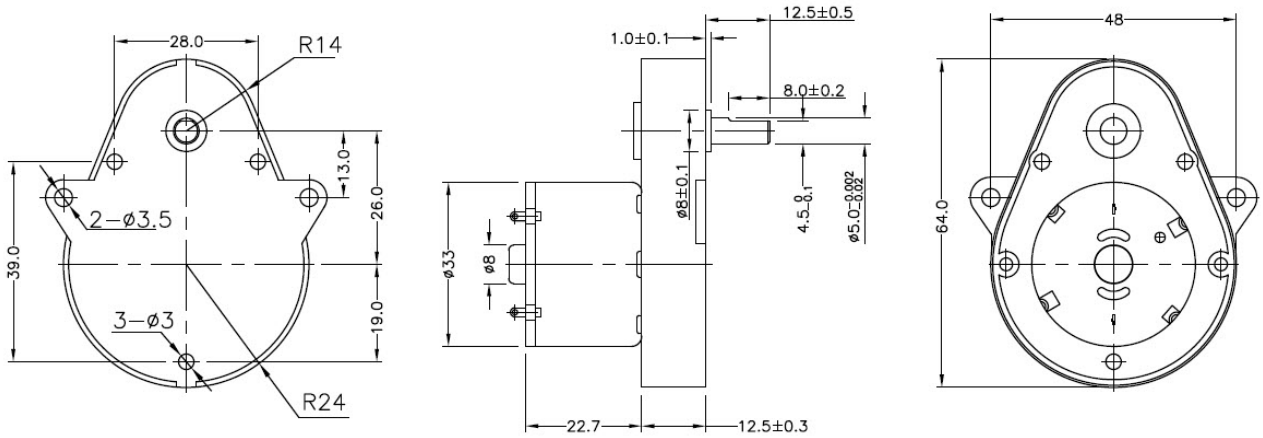
Appearance Size



Gearbox Specifications

Number of stages	2	3	4	5	6	7
Reduction Ratio	10	30	90	302	900	2050
		45	120	340	1200	2700
		60	225	454	1500	3375
Length of Gearbox (mm)	12.5					

DC Motor + Gearbox Specifications

Model	Rated Voltage (V)	Rated Torque (kg.cm)	Rated Speed (rpm)	Rated Current (mA)	Output Power (mW)	Torque at Stall (Kg.cm)	Current at Stall (mA)	No Load Speed (rpm)	No Load Current (mA)
D482-060450	6.0	6.0	4.5	120	280	30.0	350	6	60
D482-040225	6.0	4.0	12.5	180	520	12.0	600	16	60
D482-020105	6.0	2.0	26	180	530	7.0	600	35	40
D482-060090	24.0	6.0	45	400	2800	15.0	1200	60	60
D482-150450	24.0	15.0	10	400	1500	25.0	1200	13	60
D482-070225	12.0	7.0	38	600	2700	45.0	2500	47	120
D482-020090	6.0	2.0	26	180	530	7.0	600	35	40

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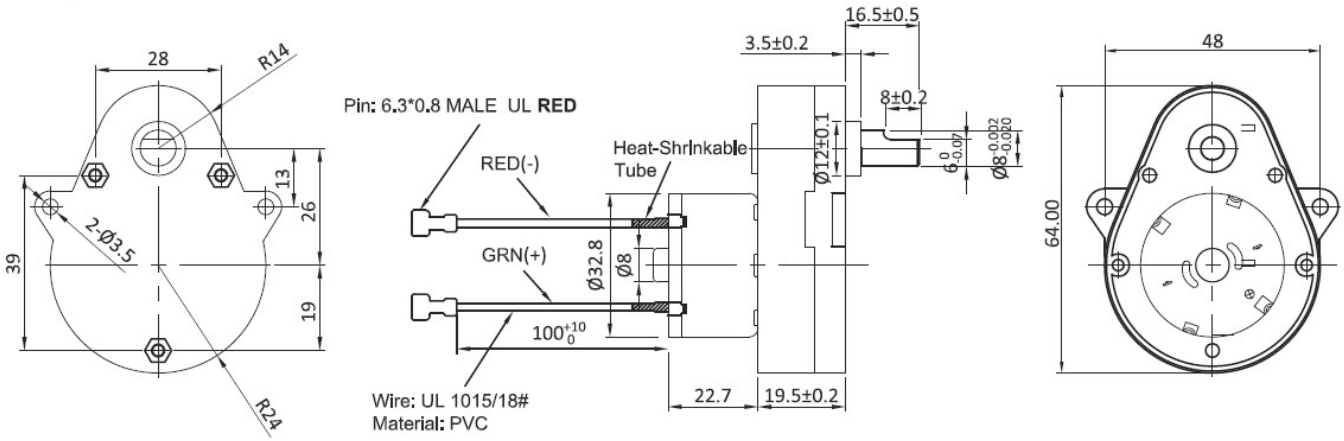
Appearance Size



Gearbox Specifications

Number of Stages	5	7				
Reduction Ratio	300	640	800	1200	1800	2700
Length of Gearbox (mm)	19.5					

DC Motor + Gearbox Specifications

Model	Rated Voltage (V)	Rated Torque (kg.cm)	Rated Speed (rpm)	Rated Current (mA)	Output Power (mW)	Torque at Stall (Kg.cm)	Current at Stall (mA)	No Load Speed (rpm)	No Load Current (mA)
D482-3002700A	12.0	30.0	2.0	150	600	30-60		2.3	80
D482-3002700B	24.0	30.0	2.0	90	600			2.3	40

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