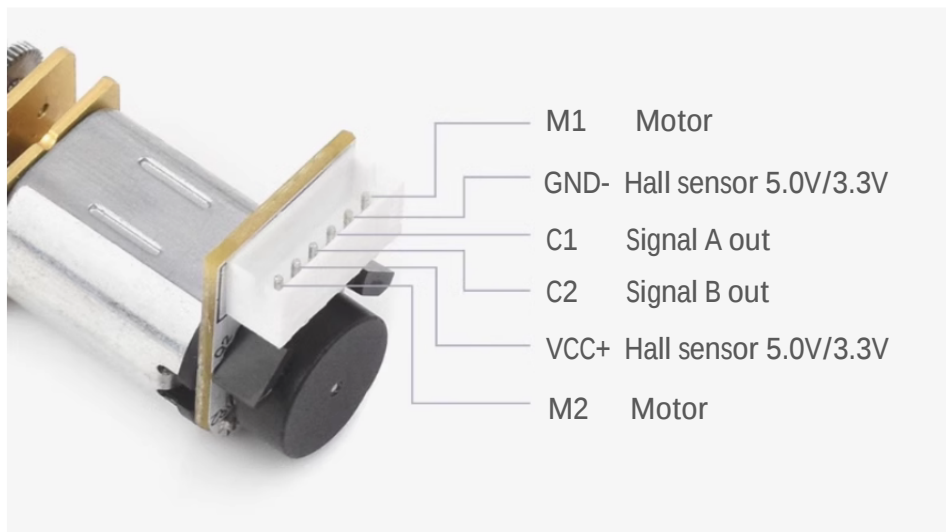
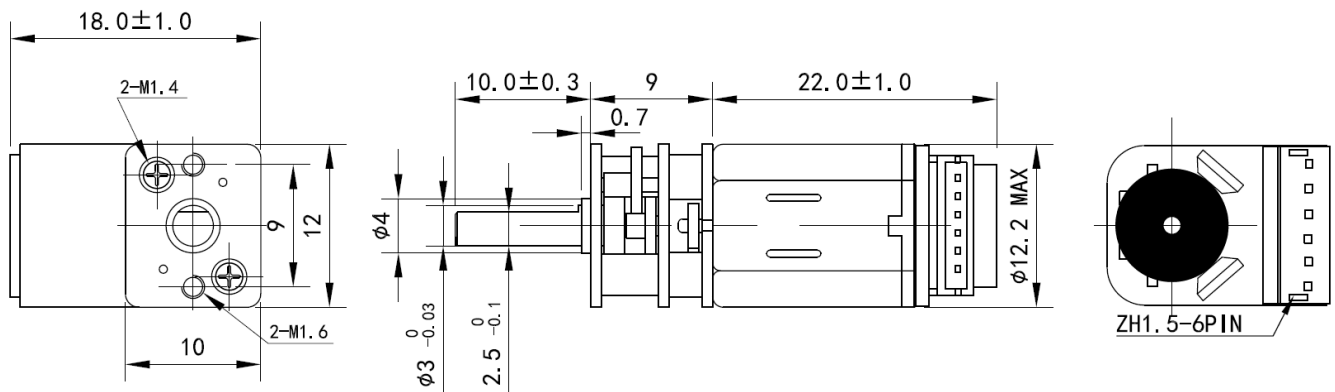


MG12E Encoder Gear Motor

Motor size: $\Phi 12\text{mm}$
 Typical Application:
 Medical instrument, Robotic



Dimension & Wires



Specification DC 3V Max power 0.1W

wire:7ppr

Model	No Load Current (mA)	NoLoadSpeed (rpm)	Rated Speed (rpm)	RatedTorque (Kg.cm)	Rated Current (mA)	StallTorque(Kg.cm)	StallCurrent(A)	GearRatio
MG12A06E-030780-10	≤ 45	780	450	0.03	≤ 100	0.08	≤ 0.3	10:1
MG12A06E-030400-20	≤ 45	400	230	0.06	≤ 100	0.16	≤ 0.3	20:1
MG12A06E-030265-30	≤ 45	265	150	0.1	≤ 100	0.23	≤ 0.3	30:1
MG12A06E-030155-50	≤ 45	155	90	0.17	≤ 100	0.4	≤ 0.3	50:1

Model	No Load Current (mA)	NoLoadSpeed (rpm)	Rated Speed (rpm)	RatedTorque (Kg.cm)	Rated Current (mA)	StallTorque(Kg.cm)	StallCurrent(A)	GearRatio
MG12A06E-030077-100	≤45	77	45	0.35	≤100	0.8	≤0.3	100:1
MG12A06E-030052-150	≤45	52	30	0.5	≤100	1.1	≤0.3	150:1
MG12A06E-030037-210	≤45	37	21	0.7	≤100	1.5	≤0.3	210:1
MG12A06E-030026-298	≤45	26	15	1	≤100	2.8	≤0.3	298:1
MG1012A06E-030020-380	≤45	20	12	1.2	≤100	3.5	≤0.3	380:1

Specification DC 6V Max power 0.45W

Model	No Load Current (mA)	NoLoadSpeed (rpm)	Rated Speed (rpm)	RatedTorque (Kg.cm)	Rated Current (mA)	StallTorque(Kg.cm)	StallCurrent(A)	GearRatio
MG12A06E-061550-10	≤60	1550	900	0.07	≤170	0.16	≤0.6	10:1
MG12A06E-060800-20	≤60	800	460	0.14	≤170	0.3	≤0.6	20:1
MG1012A06E-060530-30	≤60	530	300	0.2	≤170	0.5	≤0.6	30:1
MG12A06E-060310-50	≤60	310	180	0.35	≤170	0.8	≤0.6	50:1
MG12A06E-060155-100	≤60	155	90	0.7	≤170	1.5	≤0.6	100:1
MG12A06E-060105-150	≤60	105	60	1	≤170	2.2	≤0.6	150:1
MG12A06E-060075-210	≤60	75	42	1.4	≤170	2.8	≤0.6	210:1
MG12A06E-060052-298	≤60	52	30	2	≤170	3.0	≤0.6	298:1
MG12A06E-060041-380	≤60	41	24	2.5	≤170	4.0	≤0.6	380:1

Specification DC 6V Max power 0.2W

Model	No Load Current (mA)	NoLoadSpeed (rpm)	Rated Speed (rpm)	RatedTorque (Kg.cm)	Rated Current (mA)	StallTorque(Kg.cm)	StallCurrent(A)	GearRatio
MG12A12E-061000-10	≤45	1000	700	0.05	≤100	0.07	≤0.2	10:1
MG12A12E-060500-20	≤45	500	350	0.09	≤100	0.12	≤0.2	20:1
MG12A12E-060330-30	≤45	330	200	0.12	≤100	0.2	≤0.2	30:1
MG12A12E-060200-50	≤45	200	120	0.2	≤100	0.32	≤0.2	50:1
MG12A12E-060100-100	≤45	100	65	0.4	≤100	0.7	≤0.2	100:1
MG12A12E-060065-150	≤45	65	45	0.6	≤100	0.9	≤0.2	150:1
MG12A12E-060047-210	≤45	47	30	0.8	≤100	1.2	≤0.2	210:1
MG12A12E-060033-298	≤45	33	20	1.15	≤100	1.5	≤0.2	298:1
MG12A12E-060026-380	≤45	26	17	1.5	≤100	2.0	≤0.2	380:1

Specification DC 12V Max power 0.9W

Model	No Load Current (mA)	NoLoadSpeed (rpm)	Rated Speed (rpm)	RatedTorque (Kg.cm)	Rated Current (mA)	StallTorque(Kg.cm)	StallCurrent(A)	GearRatio
MG12A12E-122200-10	≤60	2200	1000	0.1	≤220	0.15	≤0.4	10:1
MG12A12E-121100-20	≤60	1100	500	0.15	≤220	0.28	≤0.4	20:1
MG12A12E-120730-30	≤60	730	380	0.2	≤220	0.4	≤0.4	30:1
MG12A12E-120440-50	≤60	440	230	0.4	≤220	0.65	≤0.4	50:1
MG12A12E-120220-100	≤60	220	130	0.8	≤220	1.3	≤0.4	100:1
MG12A12E-120145-150	≤60	145	85	1.2	≤220	1.9	≤0.4	150:1
MG12A12E-1201025-210	≤60	105	60	1.6	≤220	2.5	≤0.4	210:1
MG12A12E-120073-298	≤60	73	42	2.3	≤220	3.0	≤0.4	298:1
MG12A12E-120058-380	≤60	58	34	3.0	≤220	4.0	≤0.4	380:1