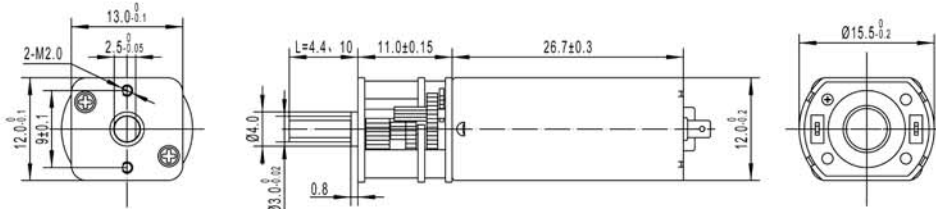


KLS23-GM13-050SH 13x12mm gearbox plus 030 & 050 permanent magnet DC motor

- Small size dc gear motor with low speed and big torque
- 13mm gear motor provide 0.05Nm torque and more reliable
- Suitable to small diameter, low noise and big torque application
- Dc Gear motors can match encoder,3ppr
- Reduction Ratio: 3、10、17、20、35、63、86、115、150、250、360



Gear Motor Dimensions (mm)



Motor Technical Data

Motor model No.	Rated voltage	No-load speed	No-load current	Rated speed	Rated torque	Rated current	Output power	Stall torque	Stall current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
TFF-050SH-13120	6.0	12500	45	10000	10	255	1.03	50	1.30
TFF-050SH-07360	12.0	8000	30	5700	10	110	0.6	33	0.29
TFF-050SH-08240	12.0	12800	35	9500	10	150	0.99	43	0.55

Gear motor Technical Data

Gearbox with motor; GM13-050SH-13120-XXX

	3	10	20	35	63	86	115	150	250	360
Reduction ratio	3	10	20	35	63	86	115	150	250	360
Length mm	11	11	11	11	11	11	11	11	11	11
No-load speed rpm	4000	1200	600	340	190	140	105	80	50	35
Rated speed rpm	3300	1000	500	285	158	116	92	73	46	33
Rated torque kg.cm	0.024	0.08	0.14	0.25	0.44	0.5	0.5	0.5	0.5	0.5
Max.momentary tolerance torque kg.cm	0.12	0.4	0.7	1.1	1.9	2.6	3.0	3.0	3.0	3.0

Gearbox with motor

GM13-050SH-07360-XXX

	3	10	20	35	63	86	115	150	250	360
Reduction ratio	3	10	20	35	63	86	115	150	250	360
Length mm	11	11	11	11	11	11	11	11	11	11
No-load speed rpm	2500	750	380	220	120	90	68	52	32	22
Rated speed rpm	1900	570	285	160	90	65	53	43	28	20
Rated torque kg.cm	0.024	0.08	0.14	0.25	0.44	0.5	0.5	0.5	0.5	0.5
Max.momentary tolerance torque kg.cm	0.08	0.26	0.46	0.7	1.2	1.7	2.1	2.7	3.0	3.0

Gearbox with motor

GM13-050SH-08240-XXX

	3	10	20	35	63	86	115	150	250	360
Reduction ratio	3	10	20	35	63	86	115	150	250	360
Length mm	11	11	11	11	11	11	11	11	11	11
No-load speed rpm	4100	1230	620	350	200	145	110	85	50	36
Rated speed rpm	3150	950	475	270	150	110	82	73	46	33
Rated torque kg.cm	0.024	0.08	0.14	0.25	0.44	0.5	0.5	0.5	0.5	0.5
Max.momentary tolerance torque kg.cm	0.1	0.34	0.6	0.9	1.6	2.2	2.7	3.0	3.0	3.0