

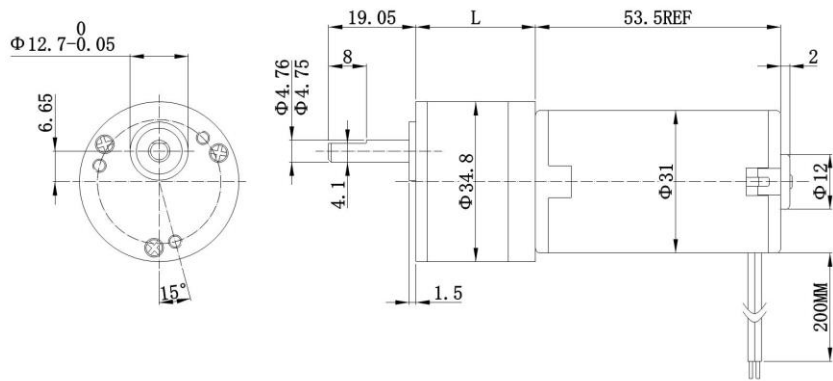
35GA/31ZYT53 12V Series

● Gearbox Specifications

Gear Ratio		Stage	Eff.	Maximum Load	Length
1:X		#	%	N.m	"L"mm
	6.3	2	81	0.706	23.6
9.9	19.5	3	73	0.706	23.6
30.9	60.5	4	66	0.706	26.1
95.9	187.7	5	57	0.706	28.6
297.5	581.8	6	53	0.706	31.1
922.3	1083.6	7	48	0.706	33.6



● Dimensions



Label printers, auto shutter, welding machines, water meter IC card, grill, oven, cleaning machine, garbage disposers, household appliances, slot machines, money detector, automatic actuator, coffee machine, towel disposal, lighting, coin refund devices, peristaltic pump.

● Motor Specifications

Model	Rated	No-load		Rated				Stall		Motor Length mm
	Voltage	Current	Speed	Current	Speed	Torque	Power	Current	Torque	
	VDC	mA	r/min	mA	r/min	g.cm	W	mA	g.cm	
31ZYT53-1230	12	100mA	3000	400	4500	90	2.0	1600	360	53.5
31ZYT53-1245	12	150mA	4500	700	3300	130	4.3	2700	520	53.5
31ZYT53-1260	12	220mA	6000	1200	2200	180	8.0	5000	720	53.5

● Gearmotor Specifications (Use gear ratio to replace xxx when order)

35GAXXXK/31ZYT53-2430

$X(\text{in-lb}) = 0.867313 * Y(\text{kg.cm})$

Reduction Ratio	6.3	9.9	19.5	30.9	60.5	95.9	187.7	297.5	581.8	922.3	1083.6
No-load speed(RPM)	476	303	154	97	50	31	16	10	5.2	3.3	2.8
Rated speed(RPM)	349	222	113	71	36	23	12	7.4	3.8	2.4	2.0
Rated torque(N.m)	0.045	0.063	0.13	0.18	0.35	0.48	0.71	0.71	0.71	0.71	0.71

35GAXXXK/31ZYT53-2445

$X(\text{in-lb}) = 0.867313 * Y(\text{kg.cm})$

Reduction Ratio	6.3	9.9	19.5	30.9	60.5	95.9	187.7	297.5	581.8	922.3	1083.6
No-load speed(RPM)	714	455	231	146	74	47	24	15	7.7	4.9	4.2
Rated speed(RPM)	524	333	169	107	55	34	18	11	5.7	3.6	3.0
Rated torque(N.m)	0.065	0.092	0.18	0.26	0.51	0.70	0.71	0.71	0.71	0.71	0.71

35GAXXXK/31ZYT53-2460

$X(\text{in-lb}) = 0.867313 * Y(\text{kg.cm})$

Reduction Ratio	6.3	9.9	19.5	30.9	60.5	95.9	187.7	297.5	581.8	922.3	1083.6
No-load speed(RPM)	952	606	308	194	99	63	32	20	10	6.5	5.5
Rated speed(RPM)	714	455	231	146	74	47	24	15	7.7	4.9	4.2
Rated torque(N.m)	0.09	0.13	0.25	0.36	0.71	0.71	0.71	0.71	0.71	0.71	0.71