

15BY stepper motor specification

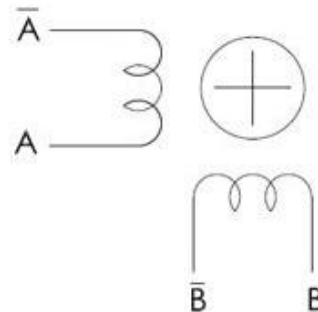
Terminal connection : ( 1.25-4Y wires terminal, GB 1571 30/UL AWM 105° )

- 1- white A +
- 2- black B -
- 3- Red A -
- 4- Yellow B +

2-2 phase excitation

STEP \ PHASE	1	2	3	4
A	+	-	-	+
B	+	+	-	-
$\bar{A}$	-	+	+	-
$\bar{B}$	-	-	+	+

Wiring diagram



Voltage	5V DC
Coil resistance	30 $\Omega \pm 10\%$
Number Of Phases	2
Step Angle	18° / Step
Max. Starting Frequency	900 PPS Min.
Max. Slewing Frequency	1200 PPS Min.
Pull-IN Torque	6 gf.cm Min.
Lead Out torque	10 gf.cm Min.

## 12SG-15BY stepper geared motor specification

Voltage	5V DC, driver IC : L6219								
Phase	2 phases, 4 wires								
Gear ratio	10	20	30	50	100	150	210	298	380
Geared Step angle	1.86	0.93	0.61	0.35	0.18	0.12	0.086	0.06	0.047
1000PPS speed ( RPM )	300	200	100	60	30	20	14	10	8
Phase current	150 mA / Phase								
Phase resistance	30 ± 7% ohm / phase								
Phase inductance	9.5 mH / phase								
Holding torque ( Kgf.cm )	0.14	0.28	0.42	0.7	1.4	2.1	2.9	3	3
Pull-out torque ( Kgf.cm )	0.04	0.08	0.12	0.2	0.4	0.6	0.84	1.2	1.5
Max. Starting Frequency	> 1200 PPS								
Max. Slewing Frequency	> 900 PPS								



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