

SIZE09 HBTYPE 0.72°STEP

24mm 5PHASE STEP MOTOR

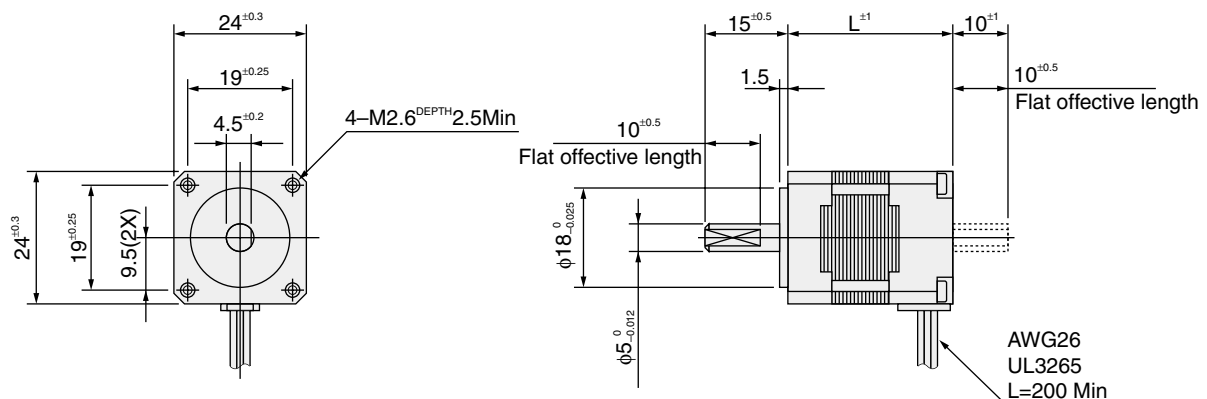
COMPACT SIZE HIGH TORQUE!

Features

- The smallest 5-phase 0.72-degree step motor of 24mm square type.
- High torque and high-speed response.
- Minute angle, high accuracy.



Outline



SPECIFICATIONS

Model No.		Rated Voltage	Rated Current	Resistance	Holding Torque	Motor Length	Rotor Inertia	mass
Single Shaft	Double Shaft	V/Phase	A/Phase	Ω/Phase	N·m (kgf·cm)	L mm	g·cm ²	g
TS3664N1E1	TS3664N11E1	1.58	0.35	4.5	0.017 (0.17)	30.5	4.2	70
TS3664N1E2	TS3664N11E2	0.83	0.75	1.1	0.017 (0.17)	30.5	4.2	70
TS3664N2E3	TS3664N12E3	2.35	0.35	6.7	0.028 (0.28)	46.5	8.2	120
TS3664N2E4	TS3664N12E4	1.28	0.75	1.7	0.028 (0.28)	46.5	8.2	120

- Operating temperature range ———— -20~+50°C
- Insulation resistance ———— 100MΩ Min (at DC500V)
- Hit-pot ———— AC500V (1min)

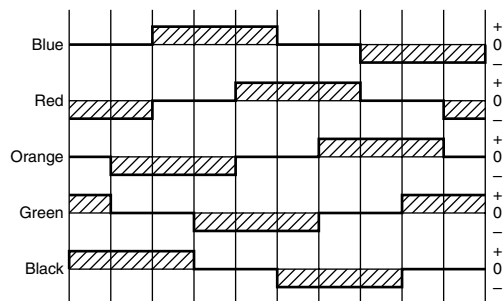
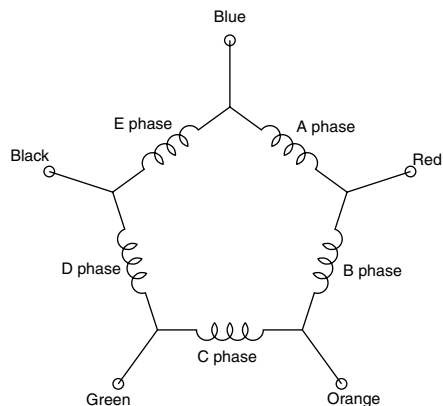
- End Play ———— 0.075mm Max (with 9.8N Load) (1 kgf Load)
- Radial play ———— 0.025mm Max (with 4.7N Load) (0.5 kgf Load)
- Allowable Temperature rise — 80 deg Max (Resistance method)

NOTE : Do not allow the surface temperature of the motor case to rise above 90°C during operation.

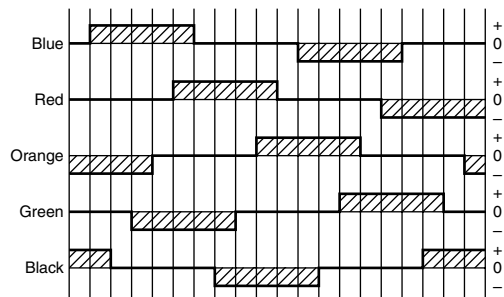


TAMAGAWA SEIKI CO.,LTD.

WIRING DIAGRAM

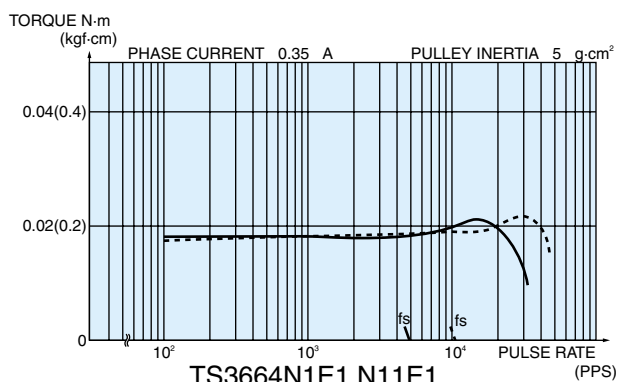


4 Phase excite

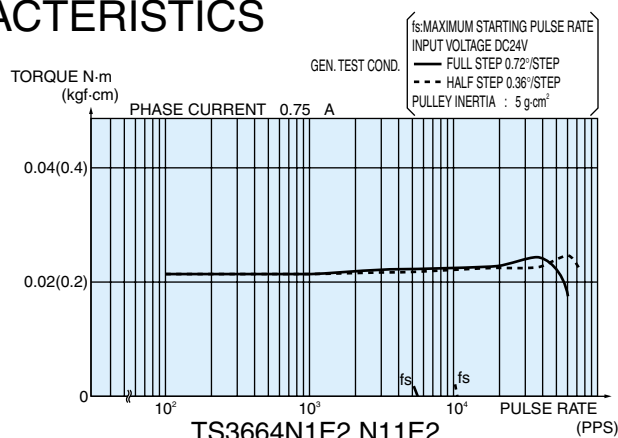


4 - 5 Phase excite

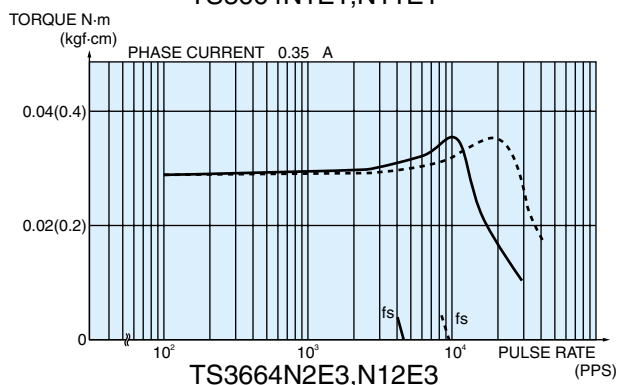
TULSE RATE VS TORQUE CHARACTERISTICS



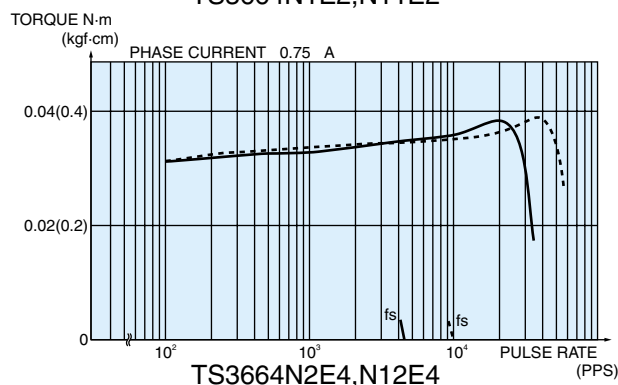
TS3664N1E1, N11E1



TS3664N1E2, N11E2



TS3664N2E3, N12E3



TS3664N2E4, N12E4



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JAB
QS,QMS
Accreditation
R014,RE012



WARRANTY
Tamagawa Seiki warrants that this product is free from defects in material of workmanship under normal use and service for a period of one year from the date of shipment to its factory. This warranty, however, excludes incidental and consequential damages caused by careless use of the product by the user. Even after the warranty period, Tamagawa Seiki offers repair service, with charge, in order to maintain the quality of the product. The MTBF (mean time between failures) of our product is quite long; yet, the predictable failure rate is not zero. The user is advised, therefore, that multiple safety means be incorporated in your system or product so as to prevent any consequential troubles resulting from the failure of your product.

All specifications are subject to change without notice.

ISO 14001 Certificate on Head office

URL <http://www.tamagawa-seiki.co.jp>

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