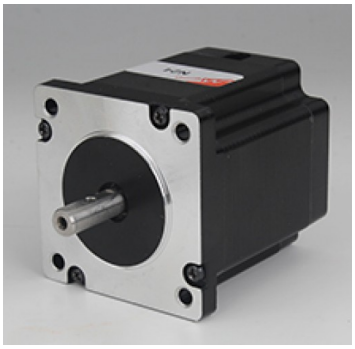
Nema 24

1.8° Hybrid Stepper Motor



Design
Main Feature Maximum efficiency/optimal power consumption Low noise and vibrations design Low heat generation High torque at low speed High Accuracy

Features
Main Feature Maximum efficiency/optimal power consumption Low noise and vibrations design Low heat generation High torque at low speed High Accuracy

Options
Main Feature Maximum efficiency/optimal power consumption Low noise and vibrations design Low heat generation High torque at low speed High Accuracy

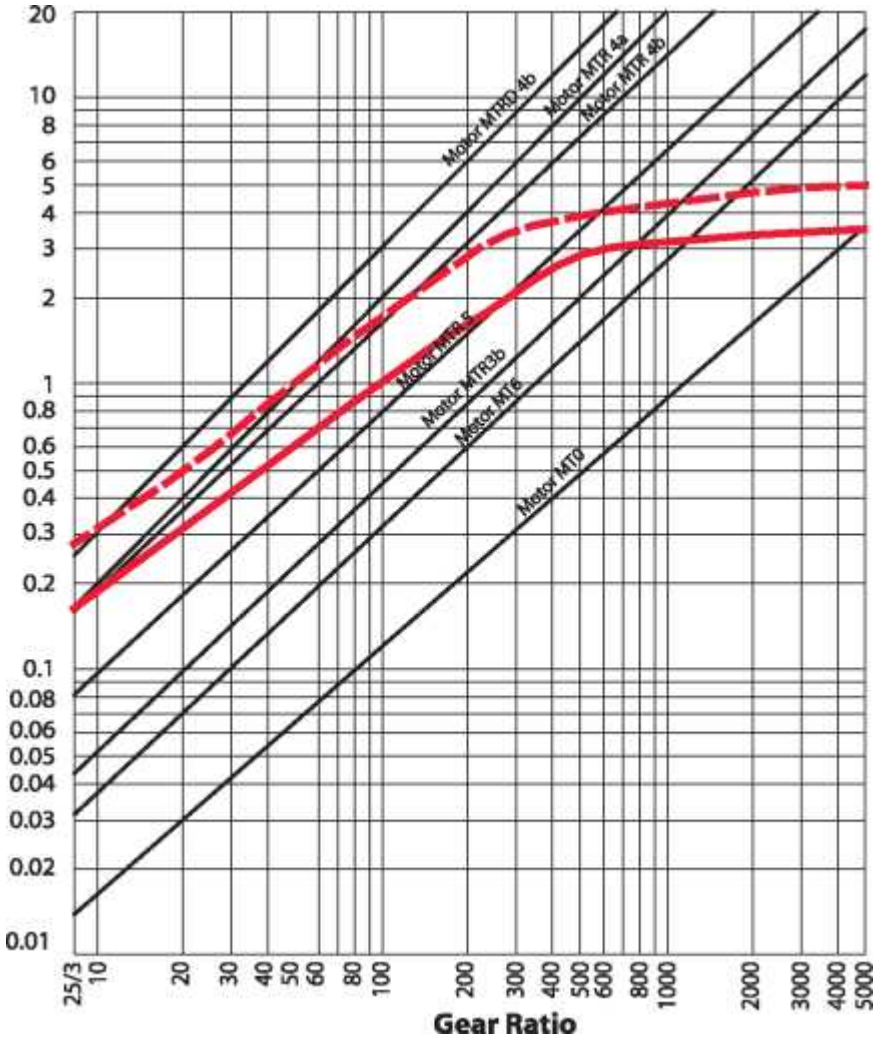
Standard Data

Parameter	Value	Unit
Motor type	Hybrid Stepper Motor	
Electrical Enclosure	40	IP
Mounting	Ø 0 5.0 X 4 holes Through	
Connection	Fly out Flexible leads 22AWG, 200mm length, ends stripped 10mm/Connector (on request)	
No. of steps/rotation	200	
Step Angle Accuracy	±5%(full step,no load)	
Insulation Class	A	
Temperature Rise	80°C Max(rated current,2 phase on)	°C
Ambient Temperature	-20°C~+50°C	°C
Shaft Radial Play	0.02 Max(450 g-load)	mm
Shaft Axial Play	0.08 Max(450 g-load)	mm

Technical Data

Parameter	Value	Unit
Step Angle	1.8°	°
Operating Voltage	24-48	V
Winding Type	Bipolar	
Current/ Phase	2.3	A
Resistance/ Phase	1.5	Ω
Inductance/ Phase	4.5	mH
Detent Torque	5	Ncm
Holding Torque	180	Ncm
Rotor Inertia	600	gcm*gcm
Weight	1035	g
Length	67	mm
No of Leads	4	

Dimensional Drawing



Reversible Synchronous Motor - 500 RPM

Speed	Available Ratios	Torque (Nm)	Torque x-winiding	Torque y-winding	Torque z-winding	Shafts Available
40	12.5	0.2025	0.2625	0.3375	0.45	OS
33.33333	15	0.243	0.315	0.405	0.54	OA
30.012	16.66	0.269892	0.34986	0.44982	0.59976	OB
25	20	0.324	0.42	0.54	0.72	OC
20	25	0.405	0.525	0.675	0.9	OD
16.66667	30	0.486	0.63	0.81	1.08	OE
16	31.25	0.50625	0.65625	0.84375	1.125	OF
15.0015	33.33	0.539946	0.69993	0.89991	1.19988	OG
12.5	40	0.648	0.84	1.08	1.44	OH
12.00192	41.66	0.674892	0.87486	1.12482	1.49976	OI
11.11111	45	0.729	0.945	1.215	1.62	OJ
10	50	0.81	1.05	1.35	1.8	OK
8.333333	60	0.972	1.26	1.62	2.16	OL
8	62.5	1.0125	1.3125	1.6875	2.25	OM
7.50075	66.66	1.079892	1.39986	1.79982	2.39976	ON