



EM MOTION MODULES

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GENERAL SPECIFICATION

Stepper Motor Model	42HS48-1304
Step Angle	1.8 Degrees per step
Optimum motor Temperature	80 Degrees C Maximum
Operating Ambient Temperature	-20'C TO +50' C
Storage Temperature	-20'C TO +60'C
Operating Ambient Humidity	90% RH ,40' MAX (no condensation)
Insulation Resistance	100M OHM MIN,500V DC Megger at normal room temperature and humidity
Dielectric Strength	At normal room temperature and humidity motor can with stand 1500V AC applied between winding and motor body for 1 minute
Shaft Radial Play	0.02mm Mamimum (450 Gms – Load)
Shaft Axial Play	0.08mm Maximum (450Gms – Load)
Maximum Radial Force	28N (20mm From the flange)
Maximum Axial Force	10 N-M
Thermal Class	CLASS B (+130 Degree C)
Protection Grade	IP40
Mounting Direction	Can be mounted in both horizontal and vertical direction

ELECTRICAL SPECIFICATION

No of Phase	2 Pahse
Stepping Angle	1.8 Degrees per step
Voltage Per Phase	3.16. Volts
Current Per Phase	1.70 Amps
Resistance Per Phase	1.80 Ohms
Inductance Per Phase	3.2m H
No of Leads	4 Wire

MECHANICAL SPECIFICATION

Holding Torque	5.5 Kg-Cm
Detent Torque	250 Gm-Cm
Rotor Inertia	68 Gm-cm
Motor Mass	0.35 Kg

