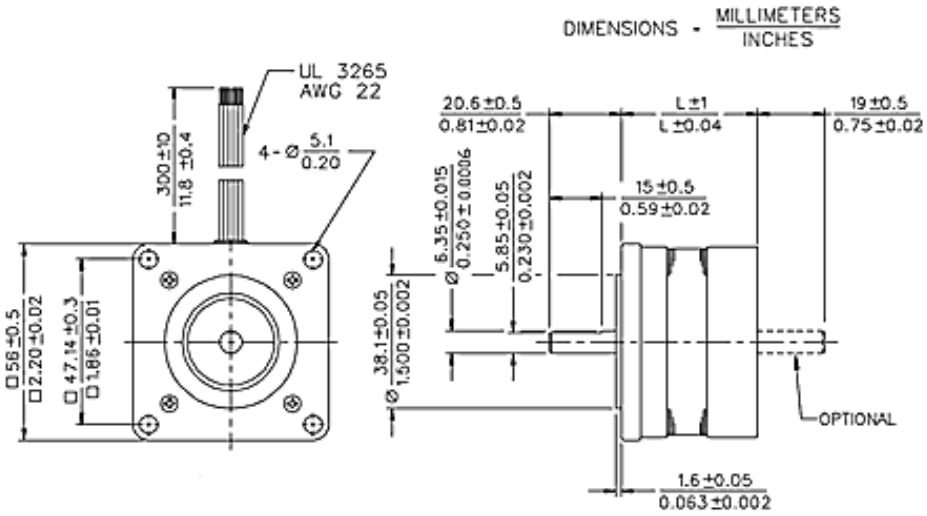
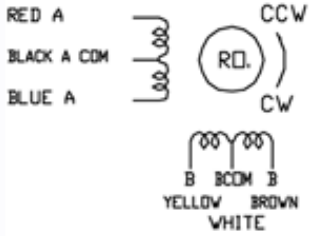
MOTORS
Brushless DC
Synchronous
Stepping
Hybrid Stepper
Induction
Brushed DC
Linear
CONTROLLERS
CAPACITORS
EMERSON Motor Technologies

HYBRID STEPPER MOTOR FAMILY

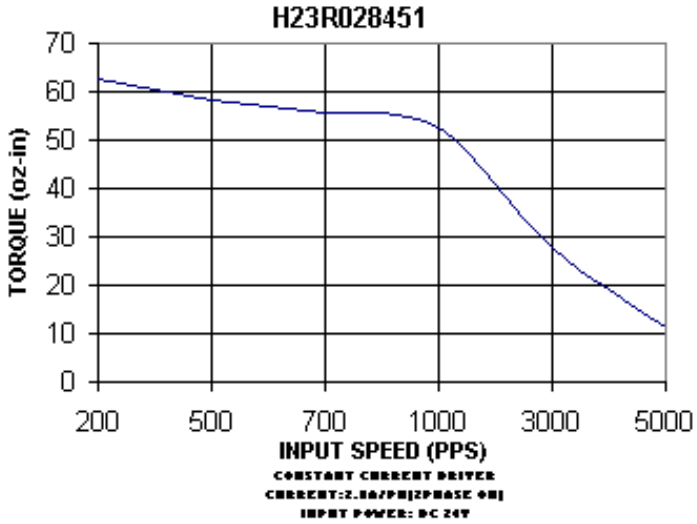
Series H23R Hybrid Stepper Motor

Mounting Flange:	NEMA 23
Step angle:	1.8°
Positional Accuracy:	± 5% max.
Number of Phases:	2 or 4 (4 Phase standard)
Temperature Rise:	80°C max
Insulation Resistance:	100M ohms at 500VDC for 1 minute
Dielectric Strength:	800VAC for 1 minute
Insulation Class:	Class B
Number of lead wires:	4, 5, 6 or 8 (8 Lead standard)
Lead wire:	UL3265 or UL1007 AWG#22
Operation Ambient Temp:	-10°C ~ +50°C
Radial Play:	0.03 mm max at 0.5 kg load
Axial Play:	0.08 mm max at 0.7 kg load





Full Step (2 Phase) CW Rotation viewing Mounting End				
Step	A (Red)	B (Yellow)	/A (Blue)	/B (Brown)
0	On	On		
1		On	On	
2			On	On
3	On			On
4	On	On		



*Note: Typical Performance Data generated using full step, uni-polar controller with parallel connection

Change to Metric

View Printable Format (Data Sheet)

View Printable Format (Parts Table)

To purchase one of the motors listed below, you must be logged into your MyHurst account, then simply click the part number to add the item to your Shopping Cart!

Model	Part Number	Step Angle (degrees)	Holding Torque (oz-in)	Detent Torque (oz-in)	Input Power (watts)	Nominal Voltage (VDC)	Winding Resistance (ohms)	Rated Inductance (mh)	Rotor Inertia (oz-in2)	Ambient Temp Range ° C	Full Load Temp. Rise ° C	Case Length (in)	Weight (oz)
H23R	H23R028451	1.8	69.5	5.6	11.2	2.8	1.4	2	0.656	-10¡ to +50¡	80	2.01	17.6
H23R	H23R030456	1.8	83.4	6.3	13.2	3	1.4	2.9	0.847	-10¡ to +50¡	80	2.205	21.9
H23R	H23R060456	1.8	83.4	6.3	14.4	6	5	9.8	0.847	-10¡ to +50¡	80	2.205	21.9
H23R	H23R120451	1.8	69.5	5.6	14.4	12	20	30	0.656	-10¡ to +50¡	80	2.01	17.6
H23R	H23R120456	1.8	83.4	6.3	14.4	12	20	38	0.847	-10¡ to +50¡	80	2.205	21.9