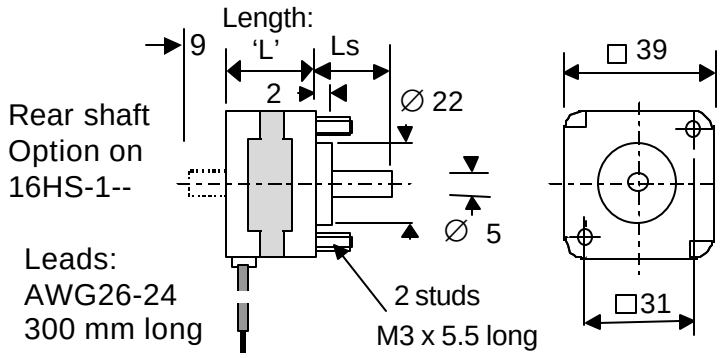
Size 16 hybrid stepper motor 16 HS series

The 16 HS hybrid stepper motor provides 200 steps / revolution (400 steps /rev when operated in ½step mode) and is ideal for instrumentation drives requiring a combination of compact dimensions, high dynamic performance and accuracy. The motor is physically interchangeable with the larger 17HS model but it's reduced overall frame size and the reduced length of the 16HS-0 series makes it ideal for use in applications where space is at a premium.

The motor is available with a choice of windings to permit operation using either Uni-polar or Bi-polar drive circuits and offers an excellent combination of performance, reliability, and quality at economic prices ideally suited to OEM manufacturers of quality instrumentation products..

Dimensions: mm



Shaft Length: mm

Motor	Shaft length
16HS-006	24 mm
16HS-012	12 mm
16HS-110 **16HS-115** **16HS-132**	13 mm

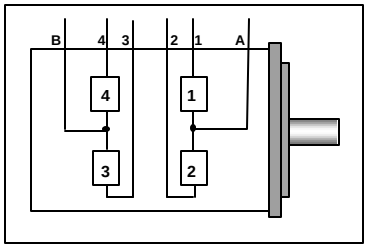
Alternative shaft lengths are available to special order

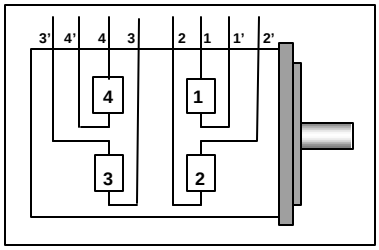
Specification

motor type	length 'L' mm	holding torque Ncm	rotor inertia $Kgcm^2$	resistance per phase ohms	current per phase amps	inductance per phase mH	number of leads	mass Kg
Uni-polar types								
16HS-006	20.5	5	0.011	24	0.26	12.5	6	0.15
16HS-110	34	9	0.016	7.2	0.5	5.8	8	0.20
Bi-polar types								
16HS-012	20.5	8.7	0.011	6.6	0.6	8.5	4	0.15
16HS-115	34	11.5	0.016	4.4	0.75	5.6	4	0.20
16HS-132	34	12.0	0.016	1.2	1.6	1.4	4	0.20

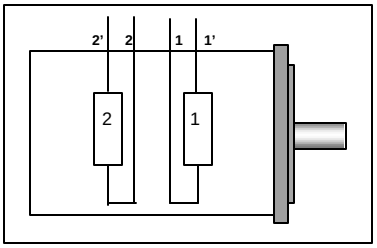
Lead colours

Uni-polar types





Bi-polar types



Lead colour identity:

Uni-polar types

6 lead versions

A	Black
1	Red
2	Red / White
B	White
3	Green
4	Green/White

8 lead versions

1'	Red/White
1	Red
2'	Yellow/white
2	Yellow
3'	Black/white
3	Black
4'	Orange/white
4	Orange

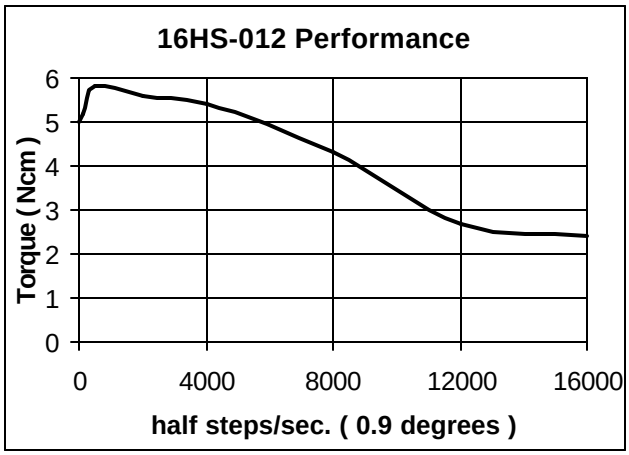
Bi-polar types

4 lead versions

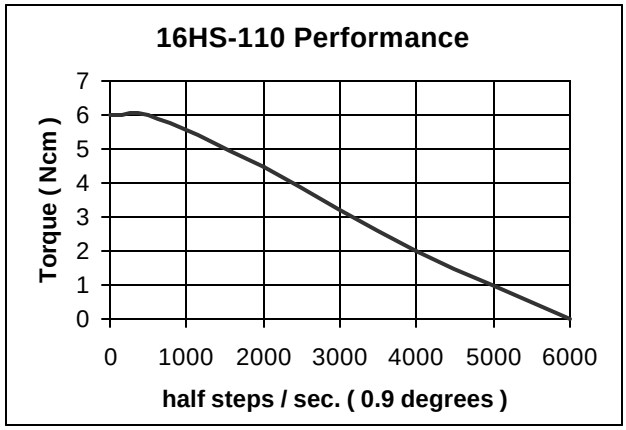
1	Red
1'	Yellow
2	Black
2'	Orange

Typical 16HS Performance

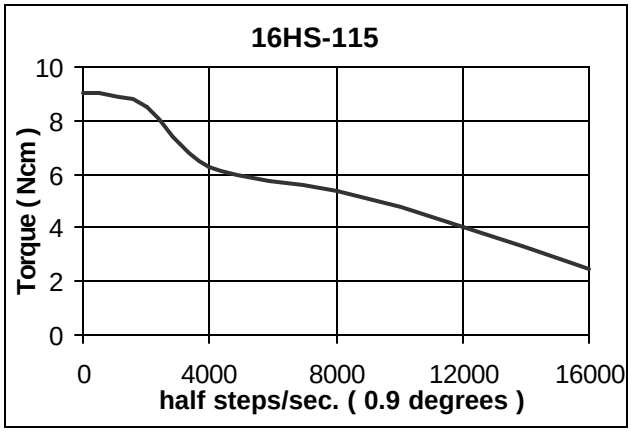
Bi-polar drive with 36 Vdc supply
0.6 Amps/phase



Uni-polar drive with 24Vdc supply
0.5 Amps /phase



Bi-polar drive with 36Vdc supply
0.75 Amps/phase



Bi-polar drive with 36Vdc supply
1.6 Amps/phase