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TECHNOLOGY GROUP

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Artisan Technology Group
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Specification

Phase	2
Steps/ Revolution	200
Step Angle	1.8°
Step Accuracy	±5%
Insulation Class	B, 130°C
Insulation Resistance	100 MegOhms
Axial Load (20,000 hours at 1000RPM)	25 N (5.6 Lbs.) Push 65 N (15 Lbs.) Pull
Radial Load (20,000 hours at 1000RPM)	30 N (6.5 Lbs.)At Flat Center
Operating Temp.	-20°C~50°C
IP Rating	IP 40
Approvals	UL Recognized File E465363, RoHS

Model Numbering System

MS17HD 4 P 4 040 -M

Basic Motor Length (Max)
- 5 25.3mm (1.0 in.)
- 4 34.3mm (1.35 in.)
- 2 39.8mm (1.57 in.) 1 Stack
- 6 48.3mm (1.90 in.) 2 Stack
- B 62.8mm (2.47 in.) 3 Stack

Electrical Connection
- P Plug-in Connector

Number of Connections
- 4 4 Lead-Bipolar
- 6 6 Lead-Unipolar(or Bipolar)

Winding
- ### Current rating x 100

Options
- Omit No Options
- -M 5 mm Diameter Rear Shaft With Encoder Mounting Holes

MS17HD–4 Lead Bi-Polar

Length	Model Number Single Shaft	Torque Curves	Connect P=Plug L=Leads	Rated Current Amps (mounted)	Holding Torque Nm Typ.	Holding Torque oz-in Typ.	Winding Ohms ±10% @20°C	Winding mH Typ.	Detent Torque mNm	Detent Torque oz-in	Rotor Inertia g cm²	Rotor Inertia oz-in²	Motor Weight kg	Motor Weight Lbs
25.3mm (1in.)	MS17HD5P4027		P	0.27	0.2	28	44	53	5	0.71	20	0.11	0.15	0.33
	MS17HD5P4070		P	0.7	0.21	30	6.5	8.8						
	MS17HD5P4100		P	1	0.21	30	3.2	4.3						
	MS17HD5P4150		P	1.5	0.2	28	1.31	1.66						
34.3mm (1.35in.)	MS17HD4P4040		P	0.4	0.34	48	30	51	12	1.7	38	0.21	0.21	0.46
	MS17HD4P4040-M		P	0.4	0.34	48	30	51						
	MS17HD4P4065		P	0.65	0.32	45	8.7	15.4						
	MS17HD4P4065-M		P	0.65	0.32	45	8.7	15.4						
	MS17HD4P4100		P	1	0.33	47	4.2	7.5						
	MS17HD4P4100-M		P	1	0.33	47	4.2	7.5						
	MS17HD4P4150		P	1.5	0.32	45	1.7	2.9						
	MS17HD4P4150-M		P	1.5	0.32	45	1.7	2.9						
39.8mm (1.57in.) 1Stack	MS17HD2P4040		P	0.4	0.48	68	24	56	15	2.1	57	0.31	0.28	0.62
	MS17HD2P4040-M		P	0.4	0.48	68	24	56						
	MS17HD2P4100		P	1	0.48	68	3.9	8.9						
	MS17HD2P4100-M		P	1	0.48	68	3.9	8.9						
	MS17HD2P4150		P	1.5	0.5	71	1.98	4.3						
	MS17HD2P4150-M		P	1.5	0.5	71	1.98	4.3						
	MS17HD2P4200		P	2	0.48	68	1.04	2.2						
	MS17HD2P4200-M		P	2	0.48	68	1.04	2.2						

48.3mm (1.9in.) 2Stack	MS17HD6P4050		P	0.5	0.67	95	24	53	25	3.5	82	0.45	0.36	0.79
	MS17HD6P4050-M		P	0.5	0.67	95	24	53						
	MS17HD6P4100		P	1	0.63	89	4.9	11.5						
	MS17HD6P4100-M		P	1	0.63	89	4.9	11.5						
	MS17HD6P4150		P	1.5	0.62	88	2.2	4.9						
	MS17HD6P4150-M		P	1.5	0.62	88	2.2	4.9						
	MS17HD6P4200		P	2	0.63	89	1.3	2.9						
	MS17HD6P4200-M		P	2	0.63	89	1.3	2.9						
62.8mm (2.47in.) 3Stack	MS17HDBP4100		P	1	0.82	116	5.6	14.6	30	4.2	123	0.67	0.6	1.3
	MS17HDBP4100-M		P	1	0.82	116	5.6	14.6						
	MS17HDBP4150		P	1.5	0.88	124	3	7.7						
	MS17HDBP4150-M		P	1.5	0.88	124	3	7.7						
	MS17HDBP4200		P	2	0.83	117	1.49	3.8						
	MS17HDBP4200-M		P	2	0.83	117	1.49	3.8						

MS17HD–6 Lead Uni-Polar

Length	Model Number Single Shaft	Torque Curves	Connect P=Plug L=Leads	Rated Current Amps (mounted)	Holding Torque Nm Typ.	Holding Torque oz-in Typ.	Winding Ohms ±10% @20℃	Winding mH Typ.	Detent Torque mNm	Detent Torque oz-in	Rotor Inertia g cm²	Rotor Inertia oz-in²	Motor Weight kg	Motor Weight Lbs
25.3mm (1in.)	MS17HD5P6030		P	0.3	0.16	23	40	25	5	0.71	20	0.11	0.15	0.38
	MS17HD5P6070		P	0.7	0.16	23	6.6	4.4						
	MS17HD5P6100		P	1	0.16	23	3.3	2.2						
34.3mm (1.35in.)	MS17HD4P6038		P	0.38	0.26	37	31	27	12	1.7	38	0.21	0.21	0.46
	MS17HD4P6085		P	0.85	0.24	34	5.1	4.5						
	MS17HD4P6120		P	1.2	0.25	35	2.9	2.5						
39.8mm (1.57in.) 1Stack	MS17HD2P6040		P	0.4	0.38	54	28	31	15	2.1	57	0.31	0.28	0.62
	MS17HD2P6085		P	0.85	0.38	54	6	6.7						
	MS17HD2P6130		P	1.3	0.38	54	2.5	2.8						
48.3mm (1.9in.) 2Stack	MS17HD6P6040		P	0.4	0.48	68	29	33	25	3.5	82	0.45	0.36	0.79
	MS17HD6P6080		P	0.8	0.49	69	7.6	8.6						
	MS17HD6P6130		P	1.3	0.51	72	3.2	3.6						
	MS17HD6P6200		P	2	0.5	71	1.3	1.4						

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