

The 6300D series is a precision permanent magnet DC, brush commutated motor that can be mounted to a variety of Merkle-Korff gear reducer options. The 6300D series motor can be paired with a KB Electronics SCR or PWM Drive for speed control.

SPECIFICATIONS

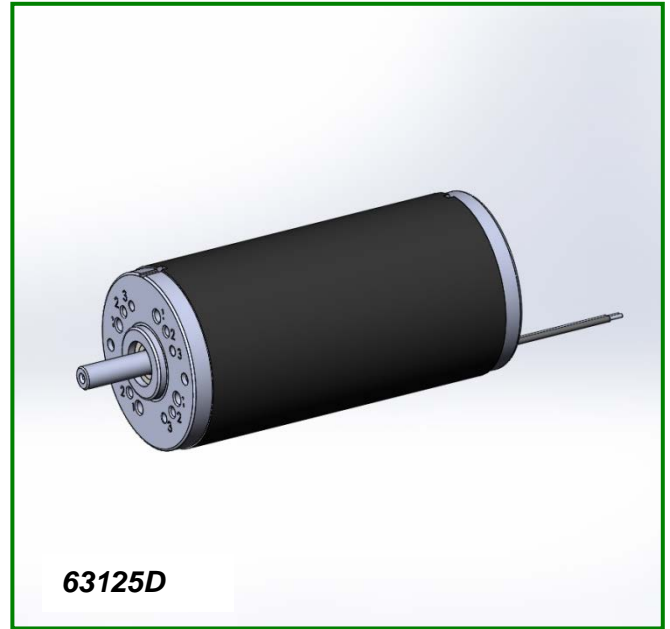
Input Voltage: 12 to 180 Vdc
Output Power: 50 to 100 Watts
Rotation: Bi-Directional
Maximum Speed: 6000 RPM
Temperature Range: -30 °C to +80 °C

Construction Features

Poles: 2
Bearings: Ball
Brushes: Long life copper or silver graphite
Insulation Class: F
Windings: Trickle Resin Impregnated
Armature: Dynamically balanced for low vibration
Shaft Diameters: 8mm
Termination: #18 AWG Lead Wires
Regulatory Approvals: UL, CE, RoHs

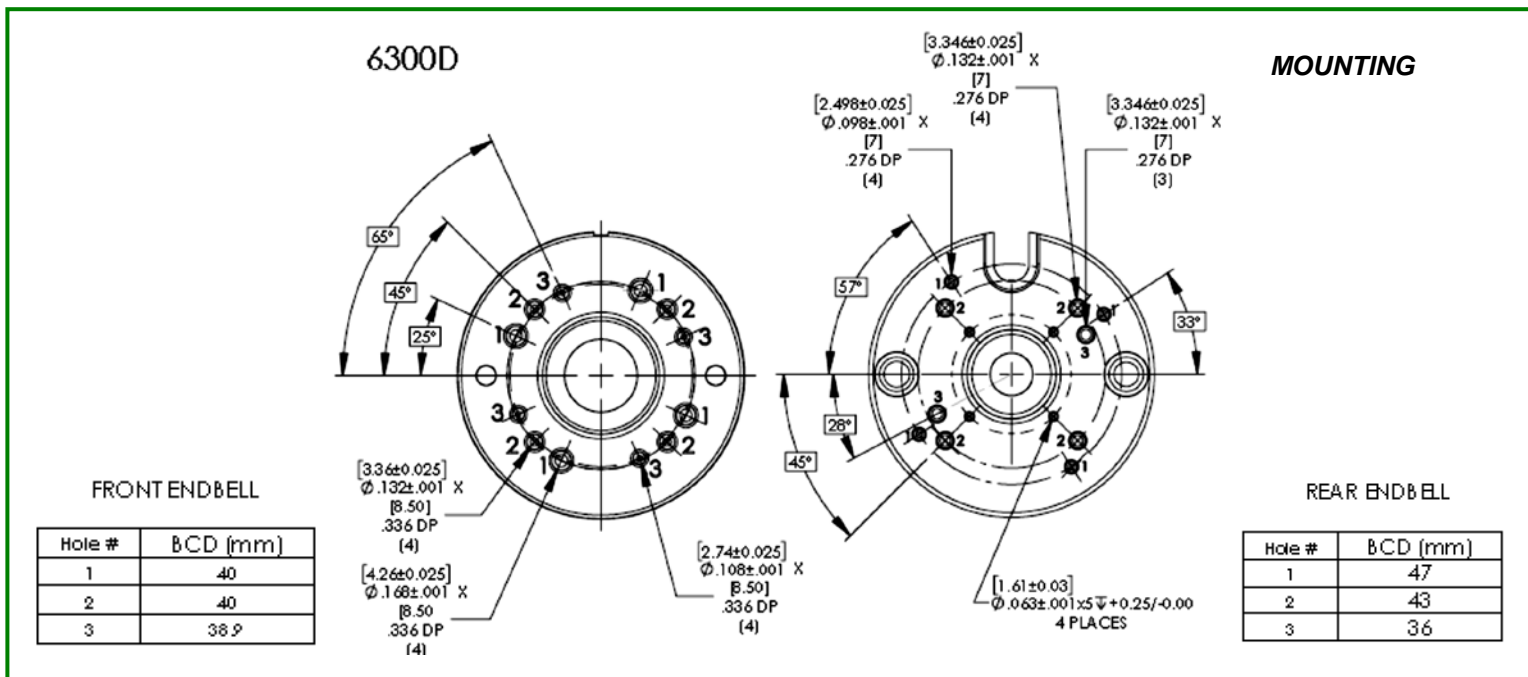
TYPICAL APPLICATIONS

- Analytical Laboratory Equipment
- Food Service Equipment
- Actuators
- Pumps
- Conveyors
- Material Handling
- Packaging equipment
- Automatic Door Operators

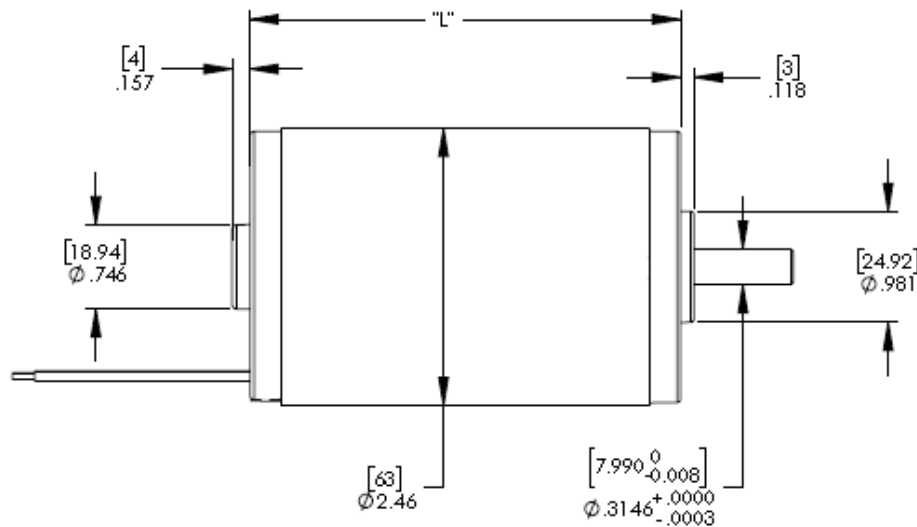


OPTIONAL FEATURES

- Customized output shafts including dual output
- Various lead lengths, terminals and connectors
- Brakes: Electromagnetic
- EMI Filtering: Internal Suppression
- Magnetic Encoder: 2 to 12 PPR Resolution
- Optical or Capacitive: Up to 2048 PPR Resolution



6300D



MOTOR	DIM "A"
6395D	3.82 [97]
63125D	5.00 [127]

6300D SERIES MOTOR PERFORMANCE

Parameter	Symbol	Units	6395D	6395D	6395D	63125D	63125D	63125D
Voltage	E	Volts	12	24	60	12	24	60
Continuous Torque	T _c	N.m	0.135	0.14	0.14	0.24	0.28	0.28
Continuous Current	I	Amps	5.0	2.7	1.2	8.6	4.9	2.0
Continuous Speed	n _c	RPM	3000	3100	3100	3000	3300	3300
Stall Torque	T _s	N.m	0.8	1.1	1.1	2.0	2.0	2.0
No Load Speed	N ₀	RPM	3600	3600	3600	3500	3600	3600
Output Power	P	Watts	50	50	50	100	100	100
No Load Current	I ₀	Amps	0.7	0.36	0.14	0.8	0.4	0.2
Maximum Winding Temperature	Θ _{max}	°C	155	155	155	155	155	155
Torque Constant	K _t	N.m/Amp	0.032	0.06	0.132	0.031	0.06	0.155
Back-EMF Constant	K _e	V.s/rad	0.032	0.06	0.132	0.031	0.06	0.155
Length	L	Mm	95	95	95	125	125	125