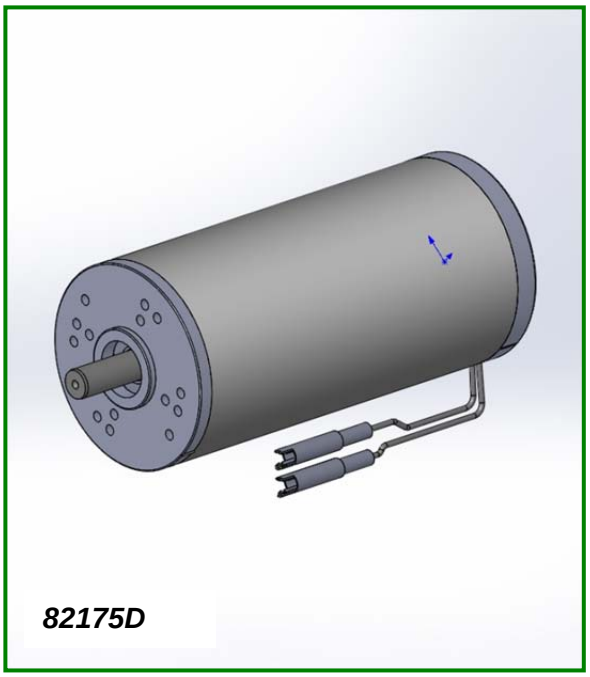
The 8200D series is a precision permanent magnet DC, brush commutated motor that can be mounted to a variety of Merkle-Korff gear reducer options. The 8200D series motor can be paired with a KB Electronics SCR or PWM Drive for speed control.



82175D

SPECIFICATIONS

Input Voltage: 12 to 240 Vdc
Output Power: 120 to 240 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

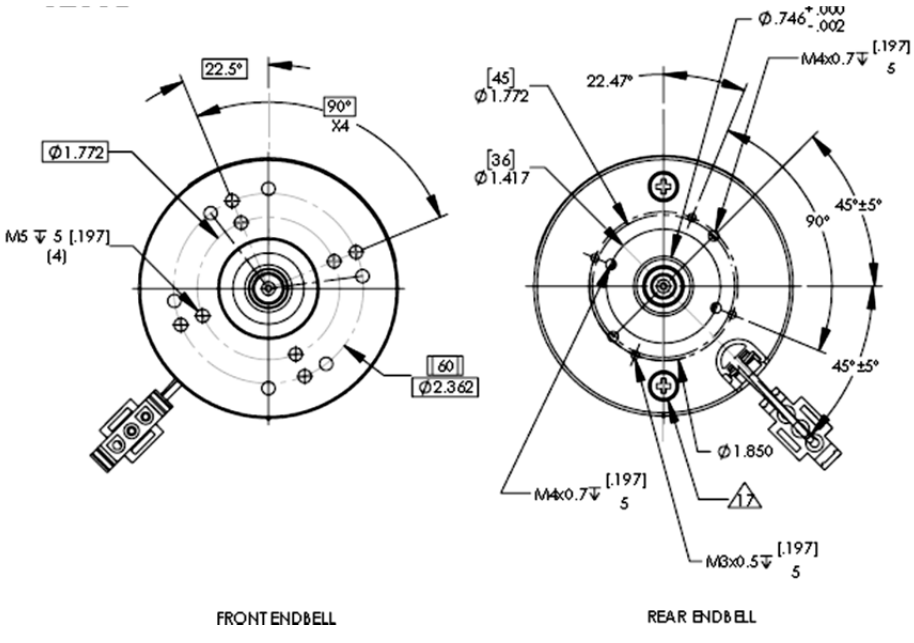
TYPICAL APPLICATIONS

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

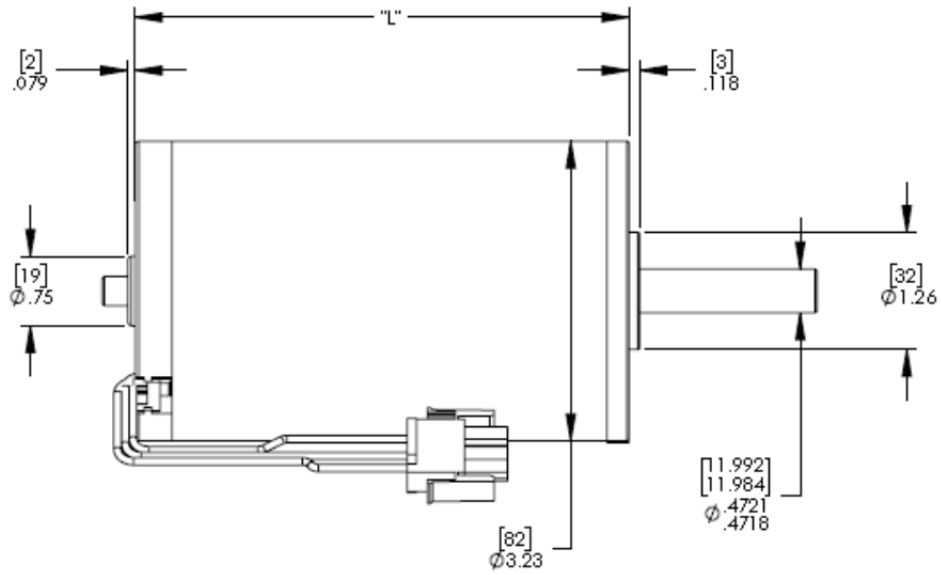
OPTIONAL FEATURES

- 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

MOUNTING



8200D



MOTOR	DIM "A"
82135D	5.31 [135]
82175D	6.89 [175]

8200D SERIES MOTOR PERFORMANCE

Parameter	Symbol	Units	82135D	82135D	82135D	82175D	82175D	82175D
Voltage	E	Volts	12	24	60	12	24	60
Continuous Torque	T_c	N.m	0.35	0.35	0.35	0.62	0.62	0.62
Continuous Current	I	Amps	11.5	5.7	2.5	20.5	10.0	4.2
Continuous Speed	n_c	RPM	2900	2900	3300	2900	2900	3000
Stall Torque	T_s	N.m	3.1	3.1	3.1	6.1	6.1	6.1
No Load Speed	N_0	RPM	3200	3200	3450	3200	3200	3100
Output Power	P	Watts	120	120	120	240	240	240
No Load Current	I_0	Amps	0.95	0.45	0.25	1.33	0.65	0.27
Maximum Winding Temperature	Θ_{max}	°C	155	155	155	155	155	155
Torque Constant	K_t	N.m/Amp	0.033	0.067	0.155	0.033	0.067	0.155
Back-EMF Constant	K_e	V.s/rad	0.033	0.067	0.155	0.033	0.067	0.155
Length	L	Mm	135	135	135	175	175	175