

# Motors - Fixed Displacement

## Vane

Single



**DENISON®**

- High overall efficiency
- High starting torque
- Very low noise
- Low ripple torque
- Various mounting pads, threaded ports & porting configurations
- Wide range of built-in valves options on uni-rotational motors

Frame size M3B	009	012	018	027	036
Displacement (cm <sup>3</sup> /rev)	9.2	12.3	18.5	27.8	37.1
Max cont pressure (bar)	175	210	210	210	210
Max operating speed <sup>1</sup> (rpm)	3000	3000	3000	3000	3000
Output torque <sup>2</sup> (Nm)	4.3	5.8	10.0	16.3	21.1
Output power <sup>2</sup> (kW)	19.7	26.7	46.6	77.4	102.0
Weight (kg)	8.0	8.0	8.0	8.0	8.0

Frame size M4C	024	027	031	043	055	067	075
Displacement (cm <sup>3</sup> /rev)	24.4	28.2	34.5	46.5	58.8	71.1	80.1
Max cont pressure (bar)	230	230	230	230	210	210	175
Max operating speed <sup>1</sup> (rpm)	2500	2500	2500	2500	2500	2500	2500
Output torque <sup>2</sup> (Nm)	60.5	70.0	86.8	120.0	149.0	170.0	198.0
Output power <sup>2</sup> (kW)	12.7	14.7	18.0	25.1	31.2	35.6	41.5
Weight (kg)	15.4	15.4	15.4	15.4	15.4	15.4	15.4

Frame size M4D	062	074	088	102	113	128	138
Displacement (cm <sup>3</sup> /rev)	65.1	76.8	91.1	105.5	116.7	132.4	144.4
Max cont pressure (bar)	230	230	230	210	210	190	175
Max operating speed <sup>1</sup> (rpm)	2500	2500	2500	2500	2500	2500	2500
Output torque <sup>2</sup> (Nm)	165.0	200.0	236.0	264.0	300.0	340.0	372.0
Output power <sup>2</sup> (kW)	34.6	41.9	49.4	55.3	62.8	71.2	77.9
Weight (kg)	27.0	27.0	27.0	27.0	27.0	27.0	27.0

Frame size M4E	153	185	214
Displacement (cm <sup>3</sup> /rev)	158.5	191.6	222.0
Max cont pressure (bar)	190	180	175
Max operating speed <sup>1</sup> (rpm)	2500	2500	2500
Output torque <sup>2</sup> (Nm)	398	484	567
Output power <sup>2</sup> (kW)	83.4	101.4	118.8
Weight (kg)	45.0	45.0	45.0

Frame size M5B*	012	018	023	028	036	045	050
Displacement (cm <sup>3</sup> /rev)	12.0	18.0	23.0	28.0	36.0	45.0	50.0
Max cont pressure (bar)	290	290	290	290	290	260	260
Max operating speed <sup>1</sup> (rpm)	4000	4000	3000	2500	2500	2500	2500
Output torque <sup>2</sup> (Nm)	50.6	81.2	117.1	132.1	172.8	190.0	211.0
Output power <sup>2</sup> (kW)	10.6	17.0	24.5	27.7	36.2	39.8	44.0
Weight (kg)	18.5	18.5	18.5	18.5	18.5	18.5	18.5

1) Max. shaft speed at max. pressure, continuous

2) Output at 2000 rpm, 24 cSt & M5B\* at 320 bar, 045 & 050 at 280 bar, M3B & M4\* at 175 bar

Double



- 49 possible displacement combinations (see above M4C & M4D data)
- Three different possible speeds for each combination
- Three different possible torques for each combination
- Bi-rotational technology
- Low noise
- Low ripple torque