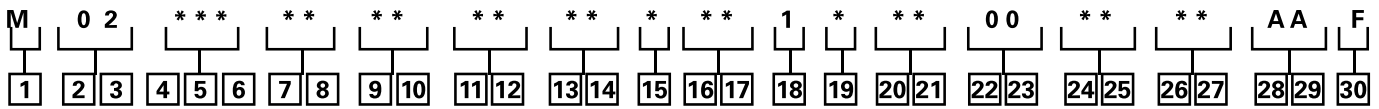


2000 Series

Model Code



The following 30-digit coding system has been developed to identify all of the configuration options for the 2000 Series motor. Use this model code to specify a motor with the desired features. All 30 digits of the code must be present when ordering. You may want to photocopy the matrix below to ensure that each number is entered in the correct box.

1 **Product**
M – 2000 Series Motor

2, **3** **Product Series**
02 – 2000 Series Motor

4, **5**, **6** **Displacement**
021 - 34 cm³/r [2.07 in³/r]
025 - 40.8 cm³/r [2.49 in³/r]
040 - 66.5 cm³/r [4.06 in³/r]
049 – 80.6 cm³/r [4.92 in³/r]
055 – 90.6 cm³/r [5.53 in³/r]
062 – 101.6 cm³/r [6.20 in³/r]
080 – 130.6 cm³/r [7.97 in³/r]
096 – 158.1 cm³/r [9.65 in³/r]
119 – 194.8 cm³/r [11.89 in³/r]
149 – 244.3 cm³/r [14.91 in³/r]
187 – 306.6 cm³/r [18.71 in³/r]
240 – 393.8 cm³/r [24.03 in³/r]
298 – 489.0 cm³/r [29.84 in³/r]

7, **8** **Mounting Type**
AB – Wheel, 4 Bolt: 108.0 [4.25] Pilot Dia. 13.59 [.535] Dia. Holes on 147.6 [5.81] Dia. Bolt Circle. 127.0 [5.00] Dia. Rear Mount Pilot
AC – Standard, 2 Bolt: 82.6 [3.25] Pilot Dia. 13.59 [.535] Dia. Holes on 106.4 [4.19] Dia. Bolt Circle. SAE A
AD – Bearingless (w/ Leakage Slots), 4 Bolt: 101.6 [4.00] Pilot Dia. 13.59 [5.35] Dia. Holes on 127.0 [5.00] Dia. Bolt Circle
AF – Standard, 2 Bolt: 101.6 [4.00] Pilot Dia. 14.35 [5.65] Dia. Holes on 146.0 [5.75] Dia. Bolt Circle. SAE B
AH – Standard, 4 Bolt: 82.6 [3.25] Pilot Dia. 13.59 [5.35] Dia. Holes on 106.4 [4.19] Dia. Bolt Circle
AJ – Standard (Magneto), 4 Bolt: 82.6 [3.25] Pilot Dia. 13.59 [5.35] Dia. Holes on 106.4 [4.19] Dia. Bolt Circle. 2.79 [1.10] Pilot Length
AL - Wheel (European), 4 Bolt: 125 [4.92] Pilot Dia. 13.79 [5.43] Dia. Holes on 159.99 [6.299] Dia. Bolt Circle
AP – Wheel, 4 Bolt: 108.0 [4.25] Pilot Dia. 13.59 [5.35] Dia. Holes on 147.6 [5.81] Dia. Bolt Circle. 127.0 [5.00] Dia. Rear Mount Pilot. Spigot Reduced to 88.9 [3.50] Dia. by 25.4 [1.00] Depth.

9, **10** **Output Shaft**
00 – None (Bearingless)
01 – 25.40 [1.000] Dia. Straight Shaft with 1/4-20UNC-2B Thread in End, 6.35 [.250] Wide x 25.40 [1.000] Dia. Woodruff Key
02 – 31.75 [1.250] Dia. Straight Shaft with .375-16UNC-2B Thread in End, 7.938 [.3125] Sq x 31.75 [1.250] Straight Key
03 – 31.75 [1.250] Dia. .125:1 Tapered Shaft per SAE J501 with/1.000-20 UNEF-2A Threaded Shaft End and Slotted Hex Nut, 7.938 [.3125] Sq x 25.40 [1.0] Straight Key
04 – 31.75 [1.250] Dia. Flat Root Side Fit, 14 Tooth, 12/24 DP 30° Involute Spline w/ .375-16UNC-2B Thread in End, 33.0 [1.30] Min. Full Spline Length
05 – 25.40 [1.000] Dia. 6B Spline per SAE J499 with .250-20UNC-2B Thread in End, 22.76 [.896] Min. Full Spline Length
07 – 22.22 [.875] Dia. Flat Root Side Fit, 13 Tooth, 16/32 DP 30° SAE B Involute Spline, 15.2 [.60] Min. Full Spline Length
16 – 32.00 [1.260] Dia. Straight Shaft with M8 x 1.25-6H Thread in End, 9.982 [.3930] W x 7.995 [.3132] H x 45.00 [1.772] L Key
17 – 31.75 [1.250] Dia. Straight Shaft With 3/8 -16 UNC-2B Thread in End, 7.938 [.3125] Sq x 31.75 [1.250] Straight Key, Corrosion Resistant (Seal area to shaft end)
19 – 25.00 [.984] Dia. Straight Shaft with M8 x 1.25-6h Thread in End, 7.982 [.3142]W x 6.954 [.2738]H x 31.82 [1.254]L Key
41 – 35.00 [1.378] Dia. 10:1 Tapered Shaft Per ISO R775 with M20 x 1.5-6g Threaded Shaft End and Slotted Hex Nut, 6.00 [.236] Sq. X 20.00 [.787] Key
42 – 35.00 [1.378] Dia. Straight Shaft with M8 x 1.25-6h Thread in End, 9.982 [.3930]W x 7.995 [.3132]H x 45.00 [1.772]L Key

11, **12** **Ports**
AA – .875-14 UNF-2B SAE O-ring Ports - Staggered Ports
AB –12.70 [.500] and 15.88 [.625] Dia. Manifold Ports with 3 x .375-16 UNC-2B Port Block Mounting Holes
AC –.875-14 UNF-2B SAE O-ring Ports - Ports Oriented 180° to each other
AE – 12.70 [.500] And 15.88 [.625] Dia. Manifold Ports with 3 x M10 x 1.5-6H Port Block Mounting Holes
AF – 1.0625-12 UN-2B SAE O-ring Ports - Ports Oriented 180° to each other
AG – G-1/2 BSP Straight THD Ports - Staggered Ports
AN – G-1/2 BSP Straight THD Ports - End Ported
AS – G-1/2 Bsp Straight THD Ports - Staggered Port with 2 x M10 x 1.5-6H Port Block Mounting Holes - European

13, **14** **Case Flow Options**
Shuttles available with port code AA only)
01 – .4375-20 UNF-2B SAE O-Ring Port
02 – G 1/4 BSP Straight THD Port
09 – Reverse Flow Shuttle Valve w/ G-1/4 BSP Straight THD Port, .062 Dia. Shuttle Flow Orifice
13 – Reverse Flow Shuttle Valve w/ .4375-20 UNF-2B SAE O-Ring Port, .062 Dia. Shuttle Flow Orifice

15 **Low Pressure Relief**
0 – None
A – Set at 4.5 bar [65 lbf/in²]
B – Set at 15.2 bar [220 lbf/in²]
C – Set at 20.7 bar [300 lbf/in²]
E – Set at 11.03 bar [160 lbf/in²]

16, **17** **Pressure/Flow Option**
00 – None
Integral Cross-Over Relief Valve:
30 – Set at 103.4 bar [1500 lbf/in²]
31 – Set at 120.6 bar [1750 lbf/in²]
32 – Set at 137.9 bar [2000 lbf/in²]
33 – Set at 155.1 bar [2250 lbf/in²]
34 – Set at 172.4 bar [2500 lbf/in²]
35 – Set at 189.6 bar [2750 lbf/in²]
36 – Set at 206.8 bar [3000 lbf/in²]
51 – Set at 234.4 bar [3400 lbf/in²]

18 **Geroler Option**
1 – Standard
2 – Free Running
6 – Reduced side clearance, no warranty for galling

19 **Seal Options**
0 – Standard
1 - Viton
2 - Viton Shaft Seal
3 - High Pressure Shaft Seal
4 - Seal Guard
5 - Extreme Duty Seal Guard
6 - High Pressure Shaft Seal, Seal Guard

20, **21** **Accessories**
00 – None
AA - Long Body Digital Speed Pickup (30 Pulse) 127 [5.0] Lead Wire With Packard Weather Pac Shroud Connector (A=Power, B=Signal, C=Common)
AD – M 12 Threaded Connector, Digital Speed Pickup (30 Pulse)
AG - M 12 Threaded Connector, Digital Speed And Direction Pickup (One 60 Pulse Per Rev Speed Signal And One Directional Signal (Pin 1=Power, Pin 2=Direction, Pin 3=Common, Pin 4=Speed)

22, **23** **Special Features (Hardware)**
00 – None

24, **25** **Special Features (Assembly)**
00 – None
AA – Flange rotated 90 degrees
AB – Reverse Rotation
AE - Flange Rotated 45 Degrees

26, **27** **Paint/Packaging**
AA – No Paint, Indiv. Box
AB – Low Gloss Black Primer, Indiv. Box
AT – Environmental coated black, individual box
BJ – Nickel plated motor (excluding shaft), individual box

28, **29** **Customer ID**
AA – None

30 **Design Code**
F – Sixth
Feature in bold are preferred and allow for shorter lead time