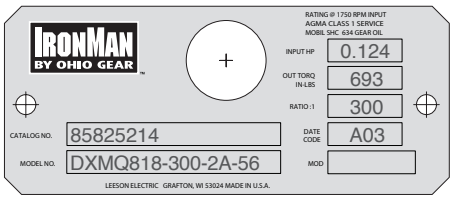
LEESON 800 Series Gear Reducer Model Number Nomenclature

All stock and custom 800 series reducers are identified by a model number. The model number appears on the nameplate and describes pertinent features of the reducer. An example follows, along with a listing of the various letters and positions used.

NOTE: All reducers also have a catalog number—for example 85825214. Reducers and renewal parts should be ordered by catalog number. If a stock reducer has been factory modified by the addition of an optional base for example, the modification number T818, for example, is stamped in the blank column of the nameplate. Accessories that are field installed will not be noted on the nameplate.

TYPICAL NAMEPLATE



Style

SOLID OUTPUT SHAFT
DXMQ – Motorized, Quill Input
DXM – Motorized, Flexible Coupling Input
DX – Non-Flanged
See page 72 for other styles.

HOLLOW OUTPUT SHAFT

Contact LEESON for Hollow Output Shaft availability.

Series

CAST IRON 800 SERIES CENTER DISTANCES

Series	Center Distance (Inches)
813	1.33
815	1.54
818	1.75
821	2.06
824	2.38
826	2.62
830	3.00
832	3.25
842	4.25
852	5.25
860	6.00
8700,8800 81000	Call Factory

Ratio

See Selection Tables on pages 75-77, for all available ratios.

Output Shaft Orientation

2 – Left-hand Output Shaft*
3 – Right-hand Output Shaft*
1 – Double Output Shaft
* Viewed from drive end of reducer.

Mounting Assembly

Assembly numbers A-D are available. Refer to dimension layouts on pages 82 - 83.

Motor Flange

NEMA Input Flange Code	For NEMA Frame
48	48C
56	56C
140	143-5TC
180	182-4TC
210	213-5TC
250	254-6TC

Sample Model Number

Solid Shaft

Motorized Quill Input, Double Reduction Reducer, 1.75" Center Distance, 300:1 Ratio, Left Hand Output Shaft, Right Angle Input & Output Shafts and 5/8" Input Bore with NEMA 56C Flange.

DXMQ	818	300	2	A	56
Style	Series	Ratio	Output Shaft	Mounting Assembly	Motor Input Flange

DOUBLE REDUCTION • HELICAL / WORM "HOW TO USE" MAXIMUM RATING TABLES

How To Use Maximum Rating Tables

Maximum Rating Tables for Double Reduction Gear Reducers are shown on pages 75-77. Selection of the appropriate gear reducer can be made using these tables or the Quick Selection Tables (page 78).

BEFORE YOU START:

Identify the Service Factor of the application (see page 92).

Determine the actual input horsepower of the motor by multiplying the motor's nameplate horsepower by the Service Factor.

Determine the output speed (RPM) required at output shaft of reducer.

Identify the mounting style required by your application from the style charts shown on page 72.

To select the proper gear reducer size, use the Maximum Rating Tables as shown: