

# Catalog Quick Overview

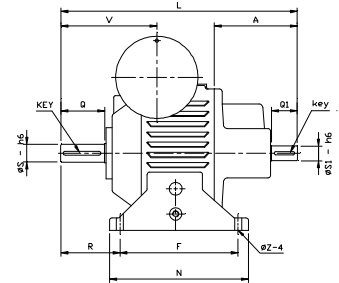
## Hp Rating Specification - Page 10 ~ Page 12

- Utilizing the HP Rating specifications on page 10 ~ 12, you can quickly select the appropriate frame size and the model for your application needs. A simple Selection Procedure can also be found on page 8 of this catalog. When sizing variators for any application, the first parameter to determine is what the output speed range is. Based on the output speed range, determine what the torque requirements are at the maximum and minimum rpm. From those two torque requirements, you then calculate hp rating requirements at both speeds. Apply appropriate and sufficient service factor to your application. Finally, check Overhung Load (OHL) rating to make sure your selection has sufficient OHL capacity. If not, chose a larger frame size that has sufficient OHL rating.

Output RPM		Ratio	Rated HP	
Max	Min		Max rpm	Min rpm
1200	200	-	0.50	0.25
480	80.0	2.5:1	0.50	0.25
240	40.0	5:1	0.50	0.25

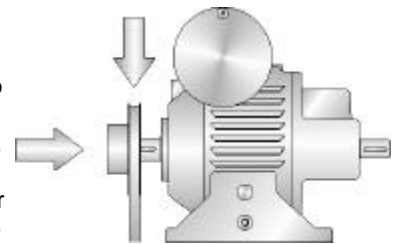
## Product Specification - Page 15 ~ Page 28

- Page 15 ~ page 28 of this catalog consists of dimensions for DARALI® Disco Variators with various configurations. Due to the fact that all dimensions in the DARALI® Disco Variator design except shafts and keys are of the true metric dimensions, the units of these dimensions are shown in mm. The shafts and keys of DARALI® Disco Variators for the North American market are of the true English dimensions. The units of shafts and keys dimensions are shown in inch.



## Overhung Load (OHL) - Page 9

- Page 9 of this catalog consists of information for calculating overhung load. The calculation procedure can sometimes get quite complicated. Feel free to contact factory for assistance in OHL calculation. OHL consideration is applicable to applications utilizing sheaves and/or sprockets. You can minimize OHL by 1). making sure the sheaves/sprockets are positioned closed to the oil seal surface, and 2). making sure the non-pulling strand of chain is slack. Applications involving slow output speed, small sheave/sprocket pitch diameter, heavy shock load, and/or flat-belt absolutely require careful OHL considerations to determine the appropriate DARALI® Disco Variators frame size.



## Nomenclature - Page 7

- Each DARALI® DISCO Variator Part Number consists of three major components:

- 1). Horse Power** - 05 (1/2 hp), 1 (1 hp), 2 (2 hp), 3 (3 hp), and 5 (5 hp).
- 2). Body Style** - A (foot mounted), AV (NEMA c-face output mounted), AR (foot mounted, with helical reducer Output), and AC (foot mounted, with cycloidal reducer output).
- 3). Input Method** - Free Input Shaft, M (Integral Gearmotor), and Q (Quill Style NEMA C-Face Adapter)



## Lubrication & Maintenance - Page 14

- The quality and quantity of lubricating oil have a direct influence on the performance and operating life of DARALI® DISCO Variators. Make sure you use the right type and the right amount of oil. Perform the recommended oil change according to the instructions in page 14. Please be aware that the speed reducer portion and the variator portion of the following models use different types of oil. These models are AR, ARM, ARQ, AC, ACM, and ACQ. Do not put speed reducer oil into the variator, and vice versa.

