

SE Encore Series Selection Guide

Elements of Selection Process	Reference Section
Output speed Output speed required _____ RPM Ratio required _____:1 Reduction method -Single worm ____, Double/ worm ____, Helical/ worm ____	Ratio selection – page 133 & 218
Application service factor Length of daily service _____ hours Planned starts and stops a day _____ Emergency stop requirements - describe _____ Type of equipment being driven _____	Service factor – pages 233-236
Load	Rating selection – pages 157-213
Using input HP requirements method Input shaft configuration - separate style Input HP _____ Input speed to the gearbox _____ RPM	HP & torque selection – page 216
NEMA AC & DC motors Motor HP _____ Motor speed or variable speed range _____ to _____ RPM	NEMA motors – page 239
Servo motors - constant and variable speed applications only (Intermittent duty cycles see Winsmith Motion Control Catalog 400) Motor torque rating _____ in lbs Motor speed range _____ to _____ RPM Maximum operating speed for application _____ RPM	lbf-in
Using output torque requirements method Output torque requirements Torque required to move the load _____ in lbs Torque required to start moving the load _____ in lbs	HP & torque selection – page 216 lbf-in lbf-in
Overhung and Thrust Load	Overhung & thrust load – page 216
Output shaft overhung load Amount of overhung load applied _____ lbs Distance from the center of the housing where overhung load is applied _____ in.	
Input shaft overhung load Input shaft overhung load _____ lbs	lbs
Output thrust load Amount of thrust load _____ lbs	
Configuration	
Output configuration requirements Output configuration - single reduction or last stage of a multiple reduction gearbox Type of output shaft - solid _____ hollow _____ If hollow what is the bore size _____ Connection to the driven machine Footless (no base) _____ With feet (base) _____ Flange _____ Direction of the output shaft extension looking into the input Right _____ Left _____ Right & Left _____ Position of the input shaft to output shaft Above _____ Below _____ Special output shaft requirements _____	Model quick selection – page: • 32-35 • 68-71 • 86-89
Input configuration requirements Shaft input method – solid shaft Connection method _____ (ie: belt and pulley, coupling) Connection equipment description _____ Electric motor - AC/DC Quill or coupling _____ Motor frame size or specification _____ Servo motor Quill or coupling _____ Motor frame size or specification _____ Other types of input contact the factory	Model quick selection – page: • 32-35 • 68-71 • 86-89 Motor dimension – page 239 May require motor interface drawing
Mounting and Lubrication SE ENCORE product is lifetime lubricated	See product sections for further information
Environmental	
Environmental operating conditions For indoor dry applications _____ Range of ambient operating temperature _____ to _____ degrees F For indoor wet applications _____ For outdoor applications _____	Use standard SE Encore Lubrication section Use SE Maximizer products Use SE Maximizer products

When this Selection Guide is done go to the Product Nomenclature section on page 4 and complete the unit selection process.



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