

	Service Factors						Service Factors						Service Factors					
	Electric Motor w/ Standard Torque	Electric Motor w/ High Torque	Steam Turbines & Engines w/ 4 or more Cyl. *	Reciprocating Engines*			Electric Motor w/ Standard Torque	Electric Motor w/ High Torque	Steam Turbines & Engines w/ 4 or more Cyl. *	Reciprocating Engines*			Electric Motor w/ Standard Torque	Electric Motor w/ High Torque	Steam Turbines & Engines w/ 4 or more Cyl. *	Reciprocating Engines*		
				1-Cyl	2-Cyl					1-Cyl	2-Cyl					1-Cyl	2-Cyl	
Agitators	1.00	1.3	1.00	1.7	1.3	Feeders												
Band Resaw (Jumber)	1.50	1.75	1.50	2.2	1.8	Belt, Screw	1.00	1.25	1.00	1.7	1.3	Jordans, Dressers	2.00	2.25	2.00	2.7	2.3	
Barge Haul Puller	2.00	2.25	2.00	2.7	2.3	Reciprocating	2.50	2.75	2.50	3.2	2.8	Calenders, Dryers, washers,						
Beaters	1.50	1.75	1.50	2.2	1.8	Filter, Press-oil	1.50	1.75	1.50	2.2	1.8	Thickener	1.50	1.75	1.50	2.2	1.8	
Blowers						Generators						Converting Machines,						
Centrifugal	1.00	1.25	1.00	1.7	1.3	Not Welding	1.00	1.25	1.00	1.7	1.3	Conveyors	1.20	1.45	1.20	1.9	1.5	
Lobe, Vane	1.25	1.50	1.25	2	1.6	welding	2.00	2.25	2.00	2.7	2.3	Printing, Presses	1.50	1.75	1.50	1.7	1.3	
Bottling Machinery	1.25	1.50	1.25	2	1.6	hoist	1.50	1.75	1.50	2.2	1.8	Pug, Mill	1.75	2.00	1.75	2.0	1.6	
Brew Kettles (distilled)	1.25	1.50	1.25	2	1.6	Hammermills	2.00	2.25	2.00	2.7	2.3	Pumps						
Can Filling Machine	1.00	1.25	1.00	1.37	1.3	Kilns	1.50	1.75	1.50	2.2	1.8	Centrifugal	1.00	1.25	1.00	1.7	1.3	
Car Dumpers	2.50	2.75	2.50	3.2	2.8	Laundry Washers						Gear, Rotary, Vane	1.25	1.50	1.25	2.0	1.6	
Car Pullers	1.50	1.75	1.50	2.2	1.8	Reversing	2.00	2.25	2.00	2.7	2.3	Reciprocating:						
Card Machine	1.75	2.00	1.75	2.2	2.0	Lumber Machinery						1-Cyl. Single or						
Chiller (oil)	1.50	2.00	1.25	2.0	2.0	Barkers, Edger Feeder,						Double Acting	2.00	2.25	2.00	2.7	2.3	
Compressors						live roll	2.00	2.25	2.00	2.7	2.3	2-Cyl. Single Acting	2.00	2.25	2.00	2.7	2.3	
Centrifugal	1.00	1.25	1.00	1.7	1.3	Planner, slab Convey	2.00	2.25	2.00	2.7	2.3	2-Cyl. Double Acting	1.75	2.00	1.75	2.5	2.0	
Screw, Lobe	1.25	1.50	1.25	2.0	1.6	Machine Tools						3 or more Cyl.	1.50	1.8	1.5	2.2	1.8	
Conveyors, Uniformly Fed						Punch press-gear Driven,						Rubber Machinery						
Assembly, Belt, Scroll	1.00	1.25	1.00	1.7	1.3	Plate planner	2.00	2.25	2.00	2.7	2.3	Mixers	2.50	2.75	2.50	3.2	2.8	
Bucket, Sawdust	1.25	1.50	1.25	2.0	1.6	Tapping Machinery,						Rubber Calender	2.00	2.25	2.00	2.7	2.3	
						Bending Roll	2.00	2.25	2.00	2.7	2.3	Screens						
Live Roll, Shaker						main Drive	1.50	1.75	1.50	2.2	1.8	Air washing, Water	1.00	1.25	1.00	1.7	1.3	
Reciprocating	3.00	3.25	3.00	3.7	3.3	Auxiliary Drives	1.00	1.25	1.00	1.7	1.3	Rotary - stone or gravel,						
Conveyors, Not Uniformly Fed						Metal Forming Machines						Dewatering	1.50	1.75	1.50	2.2	1.8	
Assembly, Belt, screw						Draw bench-carriage & main drive						vibrating	2.50	2.75	2.50	3.2	2.8	
Oven, Screw	1.20	1.45	1.20	1.9	1.5							Grizzly	2.00	2.25	2.00	2.7	2.3	
Reciprocating	2.50	2.75	2.50	3.2	2.8	Extruder, Forming Machines						Shredders	1.50	1.75	1.50	2.2	1.8	
Shaker	3.00	3.25	3.00	3.7	3.3	Wire Drawing	2.00	2.25	2.00	2.7	2.3	Steering Gears	1.00	1.25	1.00	1.7	1.3	
Cookers- - Brewing, Distilling						Table conveyors	2.50	2.75	2.50	3.2	2.8	Stokers	1.00	1.25	1.00	1.7	1.3	
Food	1.25	1.50	1.25	1.6		wire winding, coilers						Suction Roll (paper)	1.50	1.75	1.50	2.2	1.8	
Cranes & hoist	2.00	2.25	2.00	2.7	2.3	slitters	1.50	1.75	1.50	2.2	1.8	Textile Machinery						
Crushers- - Cane (sugar, stone, or ore)						Mills Rotary Type						Dryers, Dyeing Machinery,						
	3.00	3.25	3.00	2.7	3.3	ball, kilns, pebble						Mangle	1.20	1.45	1.20	2.0	1.6	
Dredges						rolling, tube	2.00	2.25	2.00	2.7	2.3	Loom, Spinner						
Cable reels	2.00	2.25	2.00	2.7	2.3	cement kilns						Tenter frames	1.50	1.75	1.50	2.2	1.8	
Conveyors, Pumps,						dryers, coolers	2.00	2.25	2.00	2.7	2.3	Tumbling Barrels	1.75	2.00	1.75	2.5	2.0	
Maneuvering Win	1.50	1.75	1.50	2.2	1.8	tumbling	1.50	1.75	1.50	2.2	1.8	Windlass	2.00	2.25	2.00	2.7	2.3	
Cutter Head Drives	2.50	2.75	2.50	3.2	2.8	Mixers						Woodworking Machine	1.00	1.25	1.00	1.7	1.3	
Dynamometer	1.50	1.75	1.50	2.2	1.8	concrete, continuou	1.75	2.00	1.75	2.2	2.0							
Evaporators	1.00	1.25	1.00	1.7	1.3	muller	1.50	1.75	1.50	2.2	1.8							
Fans						Paper Mills												
Centrifugal	1.00	1.25	1.00	1.7	1.3	Agitator (mixers),												
Cooling Tower	2.00	2.25	2.00	2.7	2.3	reel, winder	1.20	1.45	1.20	1.9	1.5							
Forced Draft,						winder	1.20	1.45	1.25	1.9	1.5							
Propeller	1.50	1.75	1.50	2.2	1.8	barker (mechanical)												
Induced Draft						Log Haul, Chipper	2.00	2.25	2.00	2.7	2.3							
w/damper control	2.00	2.25	2.00	2.7	2.3	Barking Drum												
Induced draft						(spur gear)	2.50	2.75	2.50	3.2	2.8							
w/o damper control	2.00	1.50	2	1.6														

*CAUTION: FOR RECIPROCATING
MACHINERY AND FOR APPLICATION
WHEN THE START STOP CYCLE OCCURS
SEVERAL TIMES PER HOUR, USE OUR
RUBBER COATED BUSHINGS.
PART NO. BUSH-685-PL-RB