Service Factor and Reference

1. Service Factor (1)

Service factors listed are typical values based on normal operation of the drive systems.

Aiphabetical listing of applications

AERATOR 2.5
AGITATORS
Vertical aand Horizontal Screw, propeller, Paddle 1.5
BARGE HAUL PULLER 3.0
BLOWERS
Centrifugal 1.5
Lobe or Bane 1.75
CAR DUMPERS 4.0
CAR PULLERS 2.5
CLARIFFER OR CLASSFIER 1.5
COMPRESSORS
Centirfugal 1.1
Rotary, Lobe or Vane 2.0
Rotary, Screw 2.0
Reciprocation
Director Connected ★
With out Flywheels ★
★With flywheels and Gear between Compressor and Prime Mover
1 cylinder, single acting 5.0
1 cylinder, duble acting 5.0
2 cylinder, single acting 5.0
2 cylinder, duble acting 5.0
3 cylinder, single acting 5.0
3 cylinder, duble acting 3.0
4 or more cylinder, single acting 3.5
4 or more cylinder, duble acting 3.5
CONBEYORS
Apron, Assembly, Belt, Chain Fight, Screw 1.5
Bucket 2.0
Live roll, Shaker and Reciprocaton 3.5
@ ★CRANES AND HOIST
Main Hoist 5
Skip Hoist 2.5
Slope 2.25
Bridge, Travel or Trolley 5
DYNAMOMETER 1.5
ELEVATORS
Bucket, Centrifugal Discharge 2.0
Freight or Passenger)Not Approved
Gravity discharge 2.0
ESCALATORS(Not Approved)
EXCITER GENERATOR 1.75
EXTRUDER, PLASTIC 2.25
FANS
Centrifugal 1.1
Cooling Tower 3.0
Forced Draft-Across the Line start ... 2.0
Forced Draft Motro Driven thry fluid or electric clip clutch 1.5
Gas Recirculating 2.5
Induced Draft with damper control or blade cleaneer 2.0
Induced Draft without controls 3.0
FEEDERS 3.0
Apron, Belt, Disc, Screw 2.0
Reciprocation 3.5
GENERATORS
Even Load 1.1
Hoist or Railway Service 2.0
Welder Load 3.0
HAMMERMULL LAUNDRY WASHER OR TUMBLER 3.0
LINE SHFTS
Any processing Machienry 2.0
MACHINE TOOLS
Auxillary and Traverse Drive 1.5
Bending Roll, Notching press, Punch Press, Planer, Plate Reversing 2.5
Main Drive 2.0
MAN LIFTS(Not Approved) METAL FORMING MACHINES
Draw Bench Carriage and Main Drive 3.0
Exrtuder 3.0
Forming Machine and Forming Mills 3.0
Slitters 1.5
Wire Drawing or Flattening 2.5
Wire Winder 2.25
Coilers and Uncoilers 2.25
MIXERS(see Agtators)
Concrete 2.5
Muller 2.5
PRESS, PRINTING 2.25
PUG MILL 2.5
PULVERIZERS
Hammermil and hog 2.5
Roller 2.0
PUMPS
Centirgugal
Constant Speend 1.1
Frequent Speed Changes
Under Load 2.0
Descakiling with accumulators 2.0
Gear, Rotary or Vane 1.75
Reciprocoating
1 cyl... single or duble act. 3.0
2 cyl... single acting 3.0
2 cyl... duble acting 2.5
3 or more cyliders 2.0
XCREENS
Air Washing 1.5
Grizzly 3.0
Rotary Coal or Sand 2.0
Vibrting 3.5
Water 1.5
SKI TOWS & LIFT(Not Approved)
STEERING GEAR 1.5
STOKER 1.5
TUMNLING BARREL 1.5
WINCH,MANEUVERING dredge, Maine 2.5
WINDLASS 2.0
WOODWDORKING 2.0
MACHINERY 1.5
WORK LIFT PLATFORMS(Not approved)

Aiphabetical Listing of industries
AGGREGATE PROCESSING, CEMENT, MINING KILNS; TUBE, ROD AND BALL MILLS
Direct or on L.S. shaft of Reducer, with final dreve Machined Spur Gears ... 3.0
Single Helical or Herringhone Gears 2.25
Conveyors, Feeders, Screens, Elevators, See General Listing Crushers, Ore or Stone 3.5
Dryer, Rotary 2.0
Grizzly 3.0
Hammermill or Hog 2.5
Tumbling Mill or Barel 2.5
BREWING AND DISTINLING
Bottle and Can Filling Machines 1.5
Brew Kettle 1.5
Cookers, Continuous Duty 1.75
Lauter Tub 2.25
Mash Tub 1.75
Scale Hopper, Frequent Peaks ... 2.25
CLAY WORKING INDUSTRY
Black Press Briquttle Machine, Caly Working Machine, Pug Mill 2.25
DREDGES
Cable Reel 2.25
Conveyors 1.5
Cutter Head, Jig Drive 3.0
Maneuvering Winch 2.5
Pumps(uniform load) 2.0
Screen Drive Stacker 2.5
Utility Winch 2.5
FOOD INDUSTRY
BEET SLICER
Bottling Can Filling Machine
Gereal Cooker 1.75
Dough Mixer, Meat Grinder 2.5
LUMBER
Beet Slicer
Bottling, Can Filling Machine
Cereal Cooker 1.75
Dough Mixer, Meat Grinder 2.5
LUMBER
Band Resaw 2.0
Circular Resaw, Cut-off 2.5
Edger, Head Rig, Hog 3.0
Gang Saw (Reciprocating) 3.0
Log Haul 3.0
Planer 2.5
Rolls, Non-Reversing 2.0
Rolls, Reversing 3.0
Sawdust Conveyor 1.75
Slab Conveyor 2.5
Sorting Table 2.0
Trimmer 2.25
★METAL ROLLIING MILLS
Coilers(Up or Down) Cold Mills only 2.25
Coilers(Up or Down) Hot 2.5
Coke Plants
Pusher Ram Drive 3.5
Door Opener 3.0
Pusher or Larry Car
Traction Dirve 4.0
Cold Mills-
Strip Mills
Temper Mills ★
Cooling Beds 2.0
Drawbench 3.0
Feed Rolls-Blooning Millls
Furnace Pushers 4.0
Hot and Cold Saws 3.0
Hot Mills -
Strup or Sheet Mills
Reversing Blooming or Slabbing Millls
Edger Drive
Ingot Cars
Manipulators 4.0
Merchant Mills
Mill Table
Roughing Breakdown Mills 4.0
Hot Bed or Transfer non-reversing 2.25
Runout, reversing 4.0
Real Drivers 2.25
Rod Mills
Screwdown 3.0
Seamless Tube Mills
Piercer 4.0
Thrust Black 3.0
Seamless Tube Mills
Piercer 4.0
Thrust Black 3.0
Tube Conveyor Rolls 3.0
Reeler 3.0
Kick Out 3.0
Sideguards 4.0
Skelp Mills
Slitters, steel Mill only 2.25
Soaking Pit Cover Drive
Lift 1.75
Travel 2.5
Straighteners 2.5
Unscramblers (Billet Bundle Busters) 3.0
Wire drawing Machinery 2.25
OIL INEUSTRY
Chilller 2.75
Oilwell Pumping (not over 15% peak torque) 3.0
Raraffin filter Press 2.0
Rotary Kiln 3.0
PAPER MILLS
Baker Auxiliary, Hydraulic 3.0
Baker, Mechanical 3.0
Baking Drum
L.S Shaft of ruducer with Final drive -
Helical or Herringbone Gear 3.0
Machined Spur Gear 3.5
Cast Tooth Spur Gear 4.0
Beater & Pulper 2.5
Bleachers, Coaters 1.75
Calender % Super Calender 2.5
Chipper 4.0
Converting Machine 1.75
Couch 2.25
Cutter, Felt Whipper 3.0
Cylinder, Dryer 2.25
Felt Stretcher 2.0
Fourdrinier 2.25
Jordon 3.0
Log Haul 3.0
Line Shaft 2.0
Press 2.25
Pulp Grinder 2.25
Reel, Rewinder, Winder 2.0
Stock Pumps, Centirfugal
Constant Speed 1.5
Frequent Speed Charges
Under Load 1.75
Suction Roll 2.5
RUBBER INEUSTRY
CALENDER 3.0
Cracker Plasticator 3.5
Extruder 2.25
Intensiuve or Banbury Mixer 3.5
Mixing Mill, Refiner or sheeter
One or two in line 3.0
Five or more in line 2.25
Washer 3.5
SEWAGE DISPOSAL EQUIPMENT
Bar Screen, Chemical Feeders
Collectors, Dewatering
Screen, Grit Collector 1.5
SUGAR INDUSGTRY
Cane Carrier & Leveler 2.5
Cane Kinfe & Crusher 3.0
Milll Stands, Turbine Driven with all helical or Herringbone gear 2.0
Electric Drive or Steam Engine Drive with Holical, Herringbone, or Spur Gears with any Prime Mover 2.25
TEXTILE INDUSTRY
BATCHER 1.75
Calender, Card Machine 2.0
Cloth Finishing Machine 2.25
Dry Can Loom 2.0
Dyeing Machinery 1.75
Knitting Machine 2.2
Managle, Napper, Soaper 1.75
Spinner, Tenter Frame, Winder 2.0
Reducer 2.0