

**TECHNICAL CATALOGUE**



**TOP GEAR**  
TRANSMISSIONS

[www.topgeartransmission.com](http://www.topgeartransmission.com)

## TOP GEAR TRANSMISSIONS

### • INTRODUCTION

Top Gear is headquartered at Satara (Near Mumbai, India) engaged in the field of design & manufacturing of planetary gear boxes as well as custom built gear boxes for various applications.

We have created a different identity on the global platform with quality centric & innovative products. We also have an international Quality Management Standard ISO 9001. With the team of professionals and advanced design software's and state of art manufacturing and testing facilities, we are trying to deliver our best services and niche products to our customers.

Top Gear has got distinct business growth rate and become a market leader in the transmission sector in India. Constant technological changes and continual R & D efforts and experiments of new materials has created space for distinct application areas.

Top Gear has its specialty to develop custom built gear boxes and also special application gearboxes. The commitment of every individual in the organization for continual improvement and ultimate goal of customer satisfaction has rewarded Top Gear in India and abroad by number of satisfied customers.



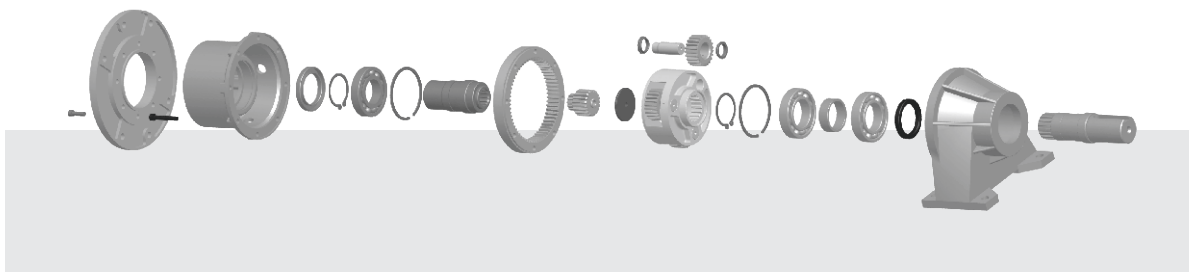
### • CONSTRUCTION

Planetary gear box has got a modular construction and its every single stage consists of one internal gear meshing with three to five planet gears mounted on the planet carrier. These also mesh with the sun gear maintaining the same direction of rotation. The planet carrier is connected to the output shaft of the gear unit. The design feature employed with the sun gear floating amongst the planet gears together with accurate machining of parts, grants uniform load distribution among the planet gears.

The material used is low carbon nickel chrome and molybdenum alloy steel for gears and high carbon steel for shafts. Casings are made up of graded cast iron or cast steel necessary to withstand the load on the output shaft. Planet gears run on needle bearings while deep groove ball bearings or roller bearings are used on drive shafts.

The gearboxes are either foot mounted or flange mounted. The drive can be given by pulley/sprocket or coupling with the help of a solid shaft. Female shaft and flange type are also available to mount the direct electric motor of flange mounted construction as per IEC standards.

The gear boxes can be offered either bevel or worm planetary combination to have a right angled transmissions wherever orientation and application demands for.



## TECHNICAL DATA

### • REDUCTION RATIO (I)

Actual reduction ratio provided by our standard manufacturing for any size of gear unit, which is the ratio of Input speed to Output speed.

### • GENERATED TORQUE

Theoretical calculated value with related to installed power & speed or calculated by formula indicated in selection procedure step -II

### • RATED TORQUE (Tr)

Output torque value for gear stresses corresponding to the limit value, conventionally considered as corresponding to theoretically unlimited life. The values shown in the following selection table takes into account both the bending strength and surface strength of the tooth flanks.

### • PEAK TORQUE

It is output torque that the gear box can withstand in static or highly intermittent conditions for fraction of time

### • THERMAL RATING (Pt) Kw

This is the continuous power transmittable by a gear unit with splash lubrication and maximum oil temperature of 90° C at ambient temp of 25° & input speed 1500 RPM.

### • INPUT SPEED

The input speed taken, as basis for selection table is 1440 min<sup>-1</sup> either for the gearbox and for the gear motor. Maximum recommended input speed is 1800 min<sup>-1</sup>. However for bigger size gear boxes from model 380 onwards the maximum input speed values are limited and to be verified with TGT before selection.

### • EFFICIENCY

This normally is 0.96/0.97 for each stage, but reduces with an increase in speed and decrease in output torque for multistage gear boxes it has to be multiplied according to stages e.g. for 2 stage 0.96\*0.96=0.92

### • SERVICE FACTOR

It has been introduced to take into account the characteristics and working hours per day of the driven machine. The table followed is related to machines driven by an electric motor, takes into accounts the frequency of start. Actual Service factor for selected model is ratio of rated torque to generated torque.

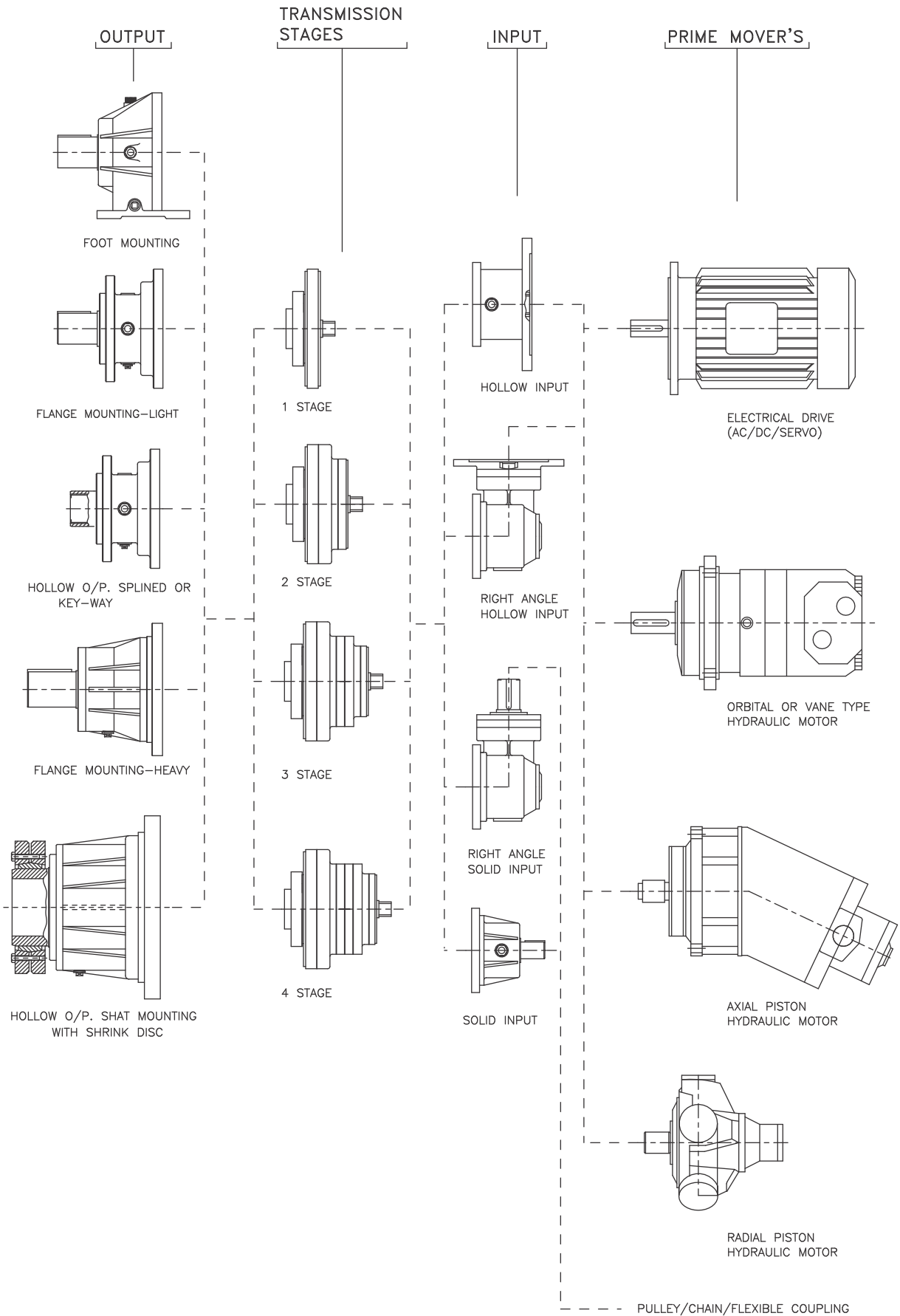
### • ALLOWABLE TEMPERATURE

Standard gear units are suitable for oil temperature between -20°C & +90°C. For temperature conditions lower than -20°C and above 90° C, special material and seals may be necessary, which are provided upon request.

### • LOADS ON OUTPUT SHAFT

Loads on output shaft or input shaft applied depending on applications are defined for an ISO L10 bearing life corresponding to  $n_2h = 10^7$  which may be checked as per procedure shown in Step No. 5 of selection.

# COMBINATIONS OF PLANETARY GEAR BOXES



## SELECTION PROCEDURE FOR PLANETARY DRIVE

To select the type of reduction gear the following instruction concerning the applications should be known.

- Torque to be transmitted (output torque)
- Input speed (RPM)
- Output speed (RPM)
- Operating condition (i.e. No of Start-ups per hour and it subject to impacts)
- Ambient temperature (°C)
- Radial load on output shaft
- Radial load on Input shaft
- Thrust load if any

After knowing the above information following steps to be followed for the selection,

**STEP 1** | Select the reduction ratio  $i = \frac{\text{Input Speed}}{\text{Output Speed}}$ .

Select nearest ratio mentioned in catalogue

**STEP 2** | Output torque to be transmitted. If the output torque is not known then the torque can be worked as

$$\text{Torque(Nm)} = \frac{P \times 9546}{N} \text{ where P is Power in Kw}$$

If the power available is in HP, convert to Kw using relation.

$$1\text{Hp}=0.746\text{Kw}$$

This above torque either defined output torque or calculated output torque or average output torque to be multiplied by the service factor shown in the service factor table.

# STEP 3 | Service factor for planetary gear box

Application	Total Operation			Application	Total Operation		
	up to 3 hrs. per day	3 to 10 hrs. per day	Over 10 hrs. per day		up to 3 hrs. per day	3 to 10 hrs. per day	Over 10 hrs. per day
Agitators (mixers)				Fans			
Pure liquids	1.00	1.00	1.25	Centrifugal	1.00	1.00	1.25
Liquids and solids	1.00	1.25	1.50	Cooling towers	2.00	2.00	2.00
Liquids - variable density	1.00	1.25	1.50	Forced draft	1.25	1.25	1.25
Blowers				Induced draft	1.50	1.50	1.50
Centrifugal	1.00	1.00	1.25	Industrial & mine	1.50	1.50	1.50
Lobe	1.00	1.25	1.50	Feeders			
Vane	1.00	1.25	1.50	Apron	1.00	1.25	1.50
Brewing and distilling				Belt	1.00	1.25	1.50
Bottling machinery	1.00	1.00	1.25	Disc	1.00	1.00	1.25
Brew kettles - continuous duty	1.25	1.25	1.25	Reciprocating	1.50	1.75	2.00
Cookers - continuous duty	1.25	1.25	1.25	Screw	1.00	1.25	1.50
Mash tubs - continuous duty	1.25	1.25	1.25	Food industry			
Scale hopper - frequent starts	1.25	1.25	1.50	Cereal cooker	1.00	1.00	1.25
Can filling machines	1.00	1.00	1.25	Dough mixer	1.25	1.25	1.50
Car dumpers	1.50	1.75	2.00	Meat grinders	1.25	1.25	1.50
Car pullers	1.00	1.25	1.50	Slicers	1.25	1.25	1.50
Clarifiers	1.00	1.00	1.25	Generators and exciters 1.00	1.00	1.25	
Classifiers	1.00	1.25	1.50	Hammer mills	1.75	1.75	2.00
Clay working machinery				Hoists			
Brick press	1.50	1.75	2.00	Heavy duty	1.75	1.75	2.00
Briquette machine	1.50	1.75	2.00	Medium duty	1.25	1.25	1.50
Pug mill	1.00	1.25	1.50	Skip hoist	1.25	1.25	1.50
Compactors	2.00	2.00	2.00	Laundry			
Compressors				Tumblers	1.25	1.25	1.50
Centrifugal	1.00	1.00	1.25	Washers	1.50	1.50	2.00
Lobe	1.00	1.25	1.50	Lumber industry			
Reciprocating, multi-cylinder	1.50	1.50	1.75	Barkers - spindle feed	1.25	1.25	1.50
Reciprocating, single - cylinder	1.75	1.75	2.00	Main drive	1.75	1.75	1.75
Cranes 1)				Conveyors - burner	1.25	1.25	1.50
Dry dock				Main or heavy duty	1.50	1.50	1.50
Main hoist	2.50	2.50	2.50	Main log	1.75	1.75	2.00
Auxiliary hoist	2.50	2.50	3.00	Re-saw, merry-go-round	1.25	1.25	1.50
Boom hoist	2.50	2.50	3.00	Conveyors			
Slewing drive	2.50	2.50	3.00	Slab	1.75	1.75	2.00
Traction drive	3.00	3.00	3.00	Transfer	1.25	1.25	1.50
Container				Chains			
Main hoist	3.00	3.00	3.00	Floor	1.50	1.50	1.50
Boom hoist	2.00	2.00	2.00	Green	1.50	1.50	1.75
Trolley drive				Cut-off saws			
Gantry drive	3.00	3.00	3.00	Chain	1.50	1.50	1.75
Traction drive	2.00	2.00	2.00	Drag	1.50	1.50	1.75
Mill duty				Debarking drums	1.75	1.75	2.00
Main hoist	3.50	3.50	3.50	Feeds			
Auxiliary	3.50	3.50	3.50	Edger	1.25	1.25	1.50
Bridge	2.50	3.00	3.00	Gang	1.75	1.75	1.75
Trolley travel	2.50	3.00	3.00	Trimmer	1.25	1.25	1.50
Industrial duty				Log deck	1.75	1.75	1.75
Main	2.50	2.50	3.00	Log hauls - incline - well type	1.75	1.75	1.75
Auxiliary	2.50	2.50	3.00	Log turning devices	1.75	1.75	1.75
Bridge	2.50	3.00	3.00	Planer feed	1.25	1.25	1.50
Trolley travel	2.50	3.00	3.00	Planer tilting hoists	1.50	1.50	1.50
Crusher				Rolls - live-off bearing - roll cases	1.75	1.75	1.75
Stone or ore	1.75	1.75	2.00	Sorting table	1.25	1.25	1.50
Dredges				Tipple hoist	1.25	1.25	1.50
Cable reels	1.25	1.25	1.50	Transfers			
Conveyors	1.25	1.25	1.50	Chain	1.50	1.50	1.75
Cutter head drives	2.00	2.00	2.00	Craneway	1.50	1.50	1.75
Pumps	2.00	2.00	2.00	Tray drives	1.25	1.25	1.50
Screen drives	1.75	1.75	2.00	Veneer lathe drives	1.25	1.25	1.50
Stackers	1.25	1.25	1.50	Metal mills			
Winches	1.25	1.25	1.50	Draw bench carriage and main drive	1.25	1.25	1.50
Elevators				Runout table			
Bucket	1.00	1.25	1.50	Non-reversing			
Centrifugal discharge	1.00	1.00	1.25	Group drives	1.50	1.50	1.50
Escalators	1.00	1.00	1.25	Individual drives	2.00	2.00	2.00
Freight	1.00	1.25	1.50	Reversing	2.00	2.00	2.00
Gravity discharge	1.00	1.00	1.25	Slab pushers	1.50	1.50	1.50
Extruders				Shears	2.00	2.00	2.00
General	1.50	1.50	1.50	Wire drawing	1.25	1.25	1.50
Plastics				Wire winding machine	1.25	1.50	1.50
Variable speed drive	1.50	1.50	1.50	Metal strip processing machinery			
Fixed speed drive	1.75	1.75	1.75	Bridles	1.25	1.25	1.50
Rubber				Coilers & uncoilers	1.00	1.00	1.25
Continuous screw operation	1.75	1.75	1.75	Edge trimmers	1.00	1.25	1.50
Intermittent screw operation	1.75	1.75	1.75	Flatteners	1.25	1.25	1.50

Application	Total Operation			Application	Total Operation		
	up to 3 hrs. per day	3 to 10 hrs. per day	Over 10 hrs. per day		up to 3 hrs. per day	3 to 10 hrs. per day	Over 10 hrs. per day
Metal strip processing machinery (continued)				Secondary processing			
Loopers (accumulators)	1.00	1.00	1.25	Blow molders	1.50	1.50	1.50
Pinch rolls	1.25	1.25	1.50	Coating	1.25	1.25	1.25
Scrap choppers	1.25	1.25	1.50	Film	1.25	1.25	1.25
Shears	2.00	2.00	2.00	Pipe	1.25	1.25	1.25
Slitters	1.00	1.25	1.50	Pre-plasticizers	1.50	1.50	1.50
Mills, rotary type				Rods	1.25	1.25	1.25
Ball & rod				Sheet	1.25	1.25	1.25
Spur ring gear	2.00	2.00	2.00	Tubing	1.25	1.25	1.50
Helical ring gear	1.50	1.50	1.50	Pullers - barge haul	1.25	1.25	1.50
Direct connected	2.00	2.00	2.00	Pumps			
Cement kilns	1.50	1.50	1.50	Centrifugal	1.00	1.00	1.25
Dryers & coolers	1.50	1.50	1.50	Proportioning	1.25	1.25	1.50
Mixers				Reciprocating			
Concrete	1.25	1.25	1.50	Single acting, 3 or more cylinders	1.25	1.25	1.50
Paper mills 2)				Double acting, 2 or more cylinders	1.25	1.25	1.50
Agitator (mixer)	1.50	1.50	1.50	Rotary			
Agitator for pure liquors	1.25	1.25	1.25	Gear type	1.00	1.00	1.25
Barking drums	2.00	2.00	2.00	Lobe	1.00	1.00	1.25
Barkers - mechanical	2.00	2.00	2.00	Vane	1.00	1.00	1.25
Beater	1.50	1.50	1.50	Rubber industry			
Breaker stack	1.25	1.25	1.25	Intensive internal mixers			
Calender 3)	1.25	1.25	1.25	Batch mixers	1.75	1.75	1.75
Chipper	2.00	2.00	2.00	Continuous mixers	1.50	1.50	1.50
Chip feeder	1.50	1.50	1.50	Mixing mill - 2 smooth rolls (if corrugated rolls are used, then use the same service factors that are used for a cracker warmer)	1.50	1.50	1.50
Coating rolls	1.25	1.25	1.25	Batch drop mill - 2 smooth rolls	1.50	1.50	1.50
Conveyors				Cracker warmer - 2 rolls; 1 corrugated roll	1.75	1.75	1.75
Chip, bark, chemical	1.25	1.25	1.25	Cracker - 2 corrugated rolls	2.00	2.00	2.00
Log (including slab)	2.00	2.00	2.00	Holding, feed & blend mill - 2 rolls	1.25	1.25	1.25
Couch rolls	1.25	1.25	1.25	Refiner - 2 rolls	1.50	1.50	1.50
Cutter	2.00	2.00	2.00	Calenders	1.50	1.50	1.50
Cylinder molds	1.25	1.25	1.25	Sand muller	1.25	1.25	1.50
Dryers 3)				Sewage disposal equipment			
Paper machine	1.25	1.25	1.25	Bar screens	1.25	1.25	1.25
Conveyor type	1.25	1.25	1.25	Chemical feeders	1.25	1.25	1.25
Embosser	1.25	1.25	1.25	Dewatering screens	1.50	1.50	1.50
Extruder	1.50	1.50	1.50	Scum breakers	1.50	1.50	1.50
Fourdrinier rolls (includes lump breaker, dandy roll, wire turning, and return rolls)	1.25	1.25	1.25	Slow or rapid mixers	1.50	1.50	1.50
Jordan	1.50	1.50	1.50	Sludge collectors	1.25	1.25	1.25
Kiln drive	1.50	1.50	1.50	Thickeners	1.50	1.50	1.50
Mt. Hope roll	1.25	1.25	1.25	Vacuum filters	1.50	1.50	1.50
Paper rolls	1.25	1.25	1.25	Screens			
Platter	1.50	1.50	1.50	Air washing	1.00	1.00	1.25
Presses - felt & suction	1.25	1.25	1.25	Rotary - stone or gravel	1.25	1.25	1.50
Pulper	2.00	2.00	2.00	Traveling water intake	1.00	1.00	1.25
Pumps - vacuum	1.50	1.50	1.50	Sugar industry			
Reel (surface type)	1.25	1.25	1.25	Beet slicer	2.00	2.00	2.00
Screens				Cane knives	1.50	1.50	1.50
Chip	1.50	1.50	1.50	Crushers	1.50	1.50	1.50
Rotary	1.50	1.50	1.50	Mills (low speed end)	1.75	1.75	1.75
Vibrating	2.00	2.00	2.00	Textile industry			
Size press	1.25	1.25	1.25	Batchers	1.25	1.25	1.50
Super calender 4)	1.25	1.25	1.25	Calenders	1.25	1.25	1.50
Thickener (AC motor)	1.50	1.50	1.50	Cards	1.25	1.25	1.50
(DC motor)	1.25	1.25	1.25	Dry cans	1.25	1.25	1.50
Washer (AC motor)	1.50	1.50	1.50	Dryers	1.25	1.25	1.50
(DC motor)	1.25	1.25	1.25	Dyeing machinery	1.25	1.25	1.50
Wind and unwind stand	1.00	1.00	1.00	Looms	1.25	1.25	1.50
Winders (surface type)	1.25	1.25	1.25	Mangles	1.25	1.25	1.50
Yankee dryers 3)	1.25	1.25	1.25	Nappers	1.25	1.25	1.50
Plastics industry				Pads	1.25	1.25	1.50
Primary processing				Slashers	1.25	1.25	1.50
Intensive internal mixers				Soapers	1.25	1.25	1.50
Batch mixers	1.75	1.75	1.75	Spinners	1.25	1.25	1.50
Continuous mixers	1.50	1.50	1.50	Tenter frames	1.25	1.25	1.50
Batch drop mill - 2 smooth rolls	1.25	1.25	1.25	Washers	1.25	1.25	1.50
Continuous feed, holding & blend mill	1.25	1.25	1.25	Winders	1.25	1.25	1.50
Compounding mill	1.25	1.25	1.25				
Calenders	1.50	1.50	1.50				

NOTES:

1) Crane drives are to be selected based on gear tooth bending strength. Contact gear manufacturer for strength ratings. Service factor in durability shall be a minimum of 1.0.

2) Service factors for paper mill applications are applied to the nameplate rating of the electric drive motor at the motor rated based speed.

3) Anti-friction bearings only. Use 1.5 for sleeve bearings.

4) A service factor of 1.00 may be applied at base speed of a super calender operating over-speed range of part range constant horsepower, part range constant

torque where the constant horsepower speed range is greater than 1.5 to 1. A service factor of 1.25 is applicable to super calenders operating over the entire speed range at constant torque or where the constant horsepower speed range is less than 1.5 to 1.

**STEP 4** | Find out rated torque = calculated output torque \* service factor.

**STEP 5** | Selection of model

Select life of gearbox & rated torque of gear box from page no. 10 to 30 with respect to output speed & life required in hours calculate  $n_2 \cdot h$ . compare the rated torque in table with torque Required. For concern ratio the model selected should have more rated torque then calculated torque.

**STEP 6** | Verification of thermal capacity

After selection of model it is necessary to check with thermal capacity of the reducer thermal rating (Kw) Pt It is the power a reduction gear can transmit in the continuous use at maximum operating temperature of  $90^{\circ}\text{C}$  when ambient temperature is  $25^{\circ}\text{C}$ , oil viscosity is ISO VG 320 and input speed is 1440 RPM. The thermal ratings are shown in selection chart.

**STEP 7** | Verification of hollow frame

If selected reducer is required in hollow input configuration then it has to be verified for available frame size. Available frame sizes are shown in selection chart.

**STEP 8** | Check for overhang load

When reducer is connected with sprocket, pulley, timing belt, gear or friction wheel there is radial load generated on shaft either high speed or low speed & this has to be checked called as overhang load capacity. Calculate the overhang load as per below mentioned formula.

$$\text{Overhang load in N} = \frac{19100000 \times P}{d \times n} \times F_c$$

Where :

- P** Is power in Kw (1HP=0.746Kw)
- d** Is diameter of sprocket /pulley/gear/friction wheel in mm
- n** Is speed of shaft in RPM
- F<sub>c</sub>** Is load connection factor. Which is as under.

CHAIN SPROCKET	GEAR	SPROCKET	V-BELT	FRICTION WHEEL
1	1.06	1.5	2.5	3.5

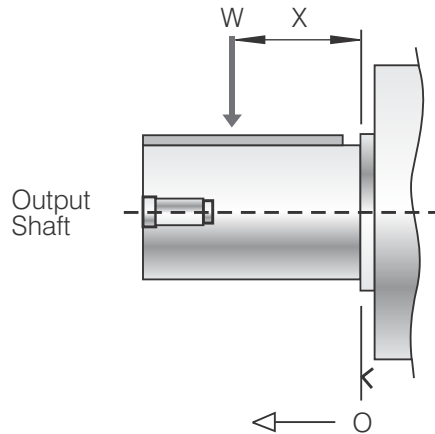
Now refer the table showing the overhang load capacity for low speed & high-speed shafts. Compare the calculated overhang load for selected model at desired life. The value shown in table for the life  $n_2h = 10^5$  cycles. Now multiply the value by life factor to get desired overhang load at desired life. Compare the calculated overhang load with actual as per the load location & the distance from shaft collar if value is within limit then the selection is correct or else check the possibility of increasing the PCD of wheel & reducing the distance from collar or select next higher model.



## OVERHANG LOAD CAPACITY LOW SPEED SHAFT (OUTPUT)

For verification of overhang load calculate the overhang load as per step no 5 of selection procedure. Check the distance 'X' where the actual load acts on the shaft the distance from collar face. Then w.r.to. drive speed & desired life in hours calculate  $n_2h$ . Select the overhang load factor w.r.to. load cycles from table below & multiply the values by these factor.

If condition dose not full filled they check possibility to reduce dimension 'X' or try to increase the pitch dia or go for next higher model or consult TGT.

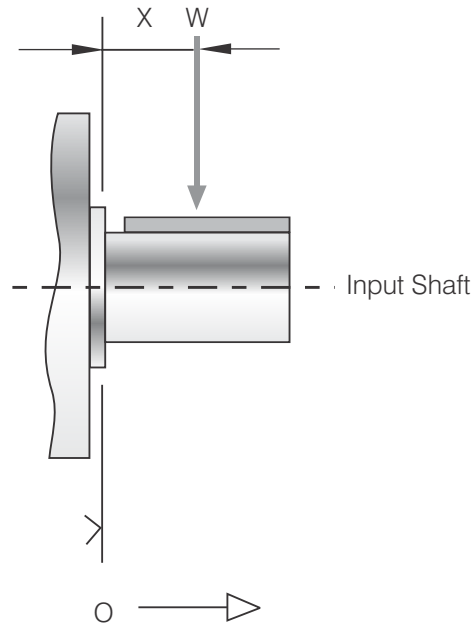


### LOW SPEED SHAFT OVERHANG LOAD CAPACITY IN N FOR LOAD CYCLES OF $10^5 n_2h$

Model : 1095 / 2095 / 3095 / 4095						Model : 1300 / 2300 / 3300 / 4300					
Distance 'x' form Coller	0	7.5	15	22.5	30	Distance 'x' form Coller	0	27.5	55	82.5	110
Overhang Load in N	5700	4800	4100	3600	3200	Overhang Load in N	78000	58000	47000	39000	35000
Model : 1130 / 2130 / 2131 / 3130 / 3131 / 4130						Model : 1340 / 2340 / 3340 / 4340					
Distance 'x' form Coller	0	10	20	30	40	Distance 'x' form Coller	0	33.75	67.5	101.25	135
Overhang Load in N	7000	5700	4800	4100	3600	Overhang Load in N	83000	65000	53000	45000	39000
Model : 1160 / 1161 / 2160 / 2161 / 3160 / 4160						Model : 1380 / 2380 / 3380 / 4380					
Distance 'x' form Coller	0	13.75	27.5	41.25	55	Distance 'x' form Coller	0	42.5	85	127.5	170
Overhang Load in N	8500	6900	5900	5100	4500	Overhang Load in N	126000	96000	78000	65000	56000
Model : 1190 / 2190 / 3190 / 4190						Model : 1415 / 2415 / 3415 / 4415					
Distance 'x' form Coller	0	18.75	37.5	56.25	75	Distance 'x' form Coller	0	45	90	135	180
Overhang Load in N	27500	21000	17000	15000	13000	Overhang Load in N	145000	100000	84000	69000	58000
Model : 1240 / 2240 / 3240 / 4240						Model : 1460 / 2460 / 3460 / 4460					
Distance 'x' form Coller	0	22.5	45	67.5	90	Distance 'x' form Coller	0	50	100	150	200
Overhang Load in N	37000	30000	24000	21000	18000	Overhang Load in N	165000	137500	95000	82000	65000
Model : 1260 / 1262 / 2260 / 2262 / 3260 / 3262 / 4260 / 4262						Model : 1515 / 2515 / 3515 / 4515					
Distance 'x' form Coller	0	22.5	45	67.5	90	Distance 'x' form Coller	0	50	100	150	200
Overhang Load in N	49000	39000	33000	28000	24000	Overhang Load in N	320000	275000	180000	150000	120000
Model : 1280 / 2280 / 3280 / 4280											
Distance 'x' form Coller	0	27.5	55	82.5	110						
Overhang Load in N	76000	56000	45000	37000	32000						
Life Cycles	10000	25000	50000	100000	500000	1000000	10000000	100000000	1000000000		
Life Factor	2.15	1.58	1.25	1	0.584	0.464	0.215	0.1	0.046		

Model above 515 has to be consulted with TGT if selected for overhang load conditions

## OVERHANG LOAD CAPACITY HIGH SPEED SHAFT (INPUT)



### HIGH SPEED SHAFT OVERHANG LOAD CAPACITY IN N FOR LOAD CYCLES OF $10^5$ n2.h

Model : 1095 / 2095 / 2130 / 3160 / 4160					Model : 1280 / 2380 / 3460 / 4670						
Distance 'x' form Coller	0	7.5	15		Distance 'x' form Coller	0	18.75	37.5	50.25	75	
Overhang Load in N	6000	5000	4700		Overhang Load in N	20000	16200	14000	12300	10500	
Model : 1130 / 2131 / 2160 / 3160 / 4190					Model : 1300 / 2415 / 3615 / 4725						
Distance 'x' form Coller	0	7.5	15	22.5	30	Distance 'x' form Coller	0	22.5	55	77.5	100
Overhang Load in N	7300	6400	5600	5000	4600	Overhang Load in N	25000	21000	17000	15000	13000
Model : 1160 / 2161 / 2190 / 3260 / 3262 / 4300					Model : 1340 / 3670 / 4725						
Distance 'x' form Coller	0	10	20	30	40	Distance 'x' form Coller	0	22.5	55	77.5	100
Overhang Load in N	12500	11000	10000	9000	8000	Overhang Load in N	34000	28500	23000	20000	17000
Model : 1190 / 2260 / 3340 / 2280 / 3300 / 3380 / 4415					Model : 1380 / 2460 / 3670 / 4850						
Distance 'x' form Coller	0	13.75	27.5	41.25	55	Distance 'x' form Coller	0	22.5	55	77.5	100
Overhang Load in N	18500	15500	13500	12500	10500	Overhang Load in N	38000	32500	26000	23000	19000
Model : 1240 / 2300 / 3380 / 4460					Model : 1415 / 2515 / 2615 / 3725 / 4950						
Distance 'x' form Coller	0	18.75	37.5	50.25	75	Distance 'x' form Coller	0	22.5	55	77.5	120
Overhang Load in N	19500	15500	13000	11500	10000	Overhang Load in N	40000	35000	29000	26000	22000
Model : 1260 / 1262 / 2340 / 3415 / 4615											
Distance 'x' form Coller	0	18.75	37.5	50.25	75						
Overhang Load in N	20000	16200	14000	12300	10500						
Life Cycles	10000	25000	50000	100000	500000	1000000	10000000	100000000	1000000000		
Life Factor	2.15	1.58	1.25	1	0.584	0.464	0.215	0.1	0.046		

Model	Ratio	Thermal Rating	Hollow I/P Frame	Continuous Rated torque at different life cycles n2.h = o/p speed (rpm) x life in hours							
				n2.h 10000	n2.h 25000	n2.h 50000	n2.h 100000	n2.h 500000	n2.h 1000000	n2.h 5000000	n2.h 10000000
1095	3.57	2	63-80	213	192	177	164	137	127	110	107
	4.00	2	63-80	254	229	212	196	164	151	132	128
	4.60	2	63-80	242	218	202	187	156	145	128	124
	5.50	2	63-80	215	194	180	166	139	128	115	111
	7.20	2	63-80	130	117	108	100	84	77	70	68
2095	12.74	1	63-80	215	194	180	166	139	128	115	111
	14.28	1	63-80	242	218	202	187	156	145	128	124
	16.00	1	63-80	242	218	202	187	156	145	128	124
	18.40	1	63-80	242	218	202	187	156	145	128	124
	21.16	1	63-80	254	229	212	196	164	151	132	128
	22.00	1	63-80	242	218	202	187	156	145	128	124
	25.30	1	63-80	254	229	212	196	164	151	132	128
	28.80	1	63-80	242	218	202	187	156	145	128	124
	33.12	1	63-80	254	229	212	196	164	151	132	128
	39.60	1	63-80	213	192	177	164	137	127	110	107
3095	45.50	0.75	63-80	215	194	180	166	139	128	115	111
	50.98	0.75	63-80	242	218	202	187	156	145	128	124
	57.12	0.75	63-80	242	218	202	187	156	145	128	124
	58.63	0.75	63-80	254	229	212	196	164	151	132	128
	65.69	0.75	63-80	242	218	202	187	156	145	128	124
	70.10	0.75	63-80	215	194	180	166	139	128	115	111
	73.60	0.75	63-80	242	218	202	187	156	145	128	124
	78.54	0.75	63-80	242	218	202	187	156	145	128	124
	84.64	0.75	63-80	242	218	202	187	156	145	128	124
	90.32	0.75	63-80	254	229	212	196	164	151	132	128
	97.34	0.75	63-80	254	229	212	196	164	151	132	128
	102.82	0.75	63-80	242	218	202	187	156	145	128	124
	115.20	0.75	63-80	242	218	202	187	156	145	128	124
	121.00	0.75	63-80	242	218	202	187	156	145	128	124
	132.48	0.75	63-80	242	218	202	187	156	145	128	124
	139.15	0.75	63-80	254	229	212	196	164	151	132	128
	152.35	0.75	63-80	254	229	212	196	164	151	132	128
	158.40	0.75	63-80	242	218	202	187	156	145	128	124
	166.38	0.75	63-80	213	192	177	164	137	127	110	107
	182.16	0.75	63-80	254	229	212	196	164	151	132	128
217.80	0.75	63-80	213	192	177	164	137	127	110	107	
4095	203.92	0.5	63-71	213	192	177	164	137	127	110	107
	256.00	0.5	63-71	254	229	212	196	164	151	132	128
	294.40	0.5	63-71	254	229	212	196	164	151	132	128
	338.56	0.5	63-71	254	229	212	196	164	151	132	128
	347.49	0.5	63-71	242	218	202	187	156	145	128	124
	361.28	0.5	63-71	242	218	202	187	156	145	128	124
	367.05	0.5	63-71	254	229	212	196	164	151	132	128
	404.80	0.5	63-71	254	229	212	196	164	151	132	128
	431.97	0.5	63-71	254	229	212	196	164	151	132	128
	465.52	0.5	63-71	254	229	212	196	164	151	132	128
	484.00	0.5	63-71	254	229	212	196	164	151	132	128
	556.60	0.5	63-71	242	218	202	187	156	145	128	124
	609.40	0.5	63-71	254	229	212	196	164	151	132	128
	633.60	0.5	63-71	254	229	212	196	164	151	132	128
	650.31	0.5	63-71	242	218	202	187	156	145	128	124
	728.64	0.5	63-71	254	229	212	196	164	151	132	128
	871.20	0.5	63-71	254	229	212	196	164	151	132	128
	1001.88	0.5	63-71	242	218	202	187	156	145	128	124
	1197.90	0.5	63-71	215	194	180	166	139	128	115	111

Model	Ratio	Thermal Rating (Kw)	Hollow I/P Frame	Continuous Rated torque at different life cycles n2.h = o/p speed (rpm) x life in hours							
				n2.h 10000	n2.h 25000	n2.h 50000	n2.h 100000	n2.h 500000	n2.h 1000000	n2.h 5000000	n2.h 10000000
1130	3.62	5	63-100	654	590	546	505	422	390	339	328
	4.00	5	63-100	744	672	621	575	480	444	388	376
	4.50	5	63-100	691	624	577	534	446	413	364	352
	5.20	5	63-100	631	570	527	488	407	377	335	325
	6.25	5	63-100	563	508	470	435	363	336	303	293
2130	12.92	2	63-80	654	590	546	505	422	390	339	328
	14.28	2	63-80	744	672	621	575	480	444	388	376
	16.07	2	63-80	691	624	577	534	446	413	364	352
	18.40	2	63-80	744	672	621	575	480	444	388	376
	20.70	2	63-80	691	624	577	534	446	413	364	352
	22.00	2	63-80	744	672	621	575	480	444	388	376
	24.75	2	63-80	691	624	577	534	446	413	364	352
	28.60	2	63-80	631	570	527	488	407	377	335	325
	34.38	2	63-80	563	508	470	435	363	336	303	293
2131	13.10	3	63-100	654	590	546	505	422	390	339	328
	14.48	3	63-100	744	672	621	575	480	444	388	376
	16.00	3	63-100	744	672	621	575	480	444	388	376
	18.00	3	63-100	744	672	621	575	480	444	388	376
	20.80	3	63-100	744	672	621	575	480	444	388	376
	25.00	3	63-100	744	672	621	575	480	444	388	376
	28.13	3	63-100	691	624	577	534	446	413	364	352
	32.50	3	63-100	631	570	527	488	407	377	335	325
	39.06	3	63-100	563	508	470	435	363	336	303	293
3130	46.14	2	63-80	654	590	546	505	422	390	339	328
	50.98	2	63-80	744	672	621	575	480	444	388	376
	57.12	2	63-80	744	672	621	575	480	444	388	376
	64.00	2	63-80	744	672	621	575	480	444	388	376
	66.61	2	63-80	654	590	546	505	422	390	339	328
	71.08	2	63-80	654	590	546	505	422	390	339	328
	73.60	2	63-80	744	672	621	575	480	444	388	376
	78.54	2	63-80	744	672	621	575	480	444	388	376
	84.64	2	63-80	744	672	621	575	480	444	388	376
	91.59	2	63-80	654	590	546	505	422	390	339	328
	95.22	2	63-80	691	624	577	534	446	413	364	352
	99.00	2	63-80	691	624	577	534	446	413	364	352
	104.26	2	63-80	654	590	546	505	422	390	339	328
	115.20	2	63-80	744	672	621	575	480	444	388	376
	129.60	2	63-80	744	672	621	575	480	444	388	376
	143.35	2	63-80	654	590	546	505	422	390	339	328
	157.30	2	63-80	631	570	527	488	407	377	335	325
	172.22	2	63-80	631	570	527	488	407	377	335	325
	178.20	2	63-80	691	624	577	534	446	413	364	352
	187.66	2	63-80	654	590	546	505	422	390	339	328
	207.36	2	63-80	744	672	621	575	480	444	388	376
233.28	2	63-80	691	624	577	534	446	413	364	352	
269.57	2	63-80	631	570	527	488	407	377	335	325	
324.00	2	63-80	563	508	470	435	363	336	303	293	

Model	Ratio	Thermal Rating (Kw)	Hollow I/P Frame	Continuous Rated torque at different life cycles n2.h = o/p speed (rpm) x life in hours							
				n2.h 10000	n2.h 25000	n2.h 50000	n2.h 100000	n2.h 500000	n2.h 1000000	n2.h 5000000	n2.h 10000000
3131	47.44	2	63-100	654	590	546	505	422	390	339	328
	52.42	2	63-100	744	672	621	575	480	444	388	376
	57.92	2	63-100	744	672	621	575	480	444	388	376
	64.00	2	63-100	744	672	621	575	480	444	388	376
	72.00	2	63-100	744	672	621	575	480	444	388	376
	81.00	2	63-100	744	672	621	575	480	444	388	376
	84.71	2	63-100	691	624	577	534	446	413	364	352
	90.50	2	63-100	744	672	621	575	480	444	388	376
	100.00	2	63-100	744	672	621	575	480	444	388	376
	108.16	2	63-100	744	672	621	575	480	444	388	376
	117.65	2	63-100	654	590	546	505	422	390	339	328
	126.56	2	63-100	691	624	577	534	446	413	364	352
	130.00	2	63-100	744	672	621	575	480	444	388	376
	140.61	2	63-100	631	570	527	488	407	377	335	325
	146.25	2	63-100	691	624	577	534	446	413	364	352
	156.25	2	63-100	744	672	621	575	480	444	388	376
	169.00	2	63-100	631	570	527	488	407	377	335	325
	175.78	2	63-100	691	624	577	534	446	413	364	352
	203.13	2	63-100	631	570	527	488	407	377	335	325
244.14	2	63-100	563	508	470	435	363	336	303	293	
4130	256.00	1.5	63-80	744	672	621	575	480	444	388	376
	294.40	1.5	63-80	744	672	621	575	480	444	388	376
	338.56	1.5	63-80	691	624	577	534	446	413	364	352
	353.43	1.5	63-80	691	624	577	534	446	413	364	352
	361.28	1.5	63-80	744	672	621	575	480	444	388	376
	367.05	1.5	63-80	744	672	621	575	480	444	388	376
	404.80	1.5	63-80	744	672	621	575	480	444	388	376
	455.40	1.5	63-80	691	624	577	534	446	413	364	352
	465.52	1.5	63-80	744	672	621	575	480	444	388	376
	472.95	1.5	63-80	744	672	621	575	480	444	388	376
	529.92	1.5	63-80	744	672	621	575	480	444	388	376
	633.60	1.5	63-80	744	672	621	575	480	444	388	376
	712.80	1.5	63-80	691	624	577	534	446	413	364	352
	740.28	1.5	63-80	744	672	621	575	480	444	388	376
	823.68	1.5	63-80	631	570	527	488	407	377	335	325
	933.12	1.5	63-80	691	624	577	534	446	413	364	352
	1032.13	1.5	63-80	654	590	546	505	422	390	339	328
	1078.27	1.5	63-80	631	570	527	488	407	377	335	325
	1283.04	1.5	63-80	691	624	577	534	446	413	364	352
	1361.25	1.5	63-80	563	508	470	435	363	336	303	293
	1492.99	1.5	63-80	744	672	621	575	480	444	388	376
1679.62	1.5	63-80	691	624	577	534	446	413	364	352	
1940.89	1.5	63-80	631	570	527	488	407	377	335	325	
2332.8	1.5	63-80	563	508	470	435	363	336	303	293	

Model	Ratio	Thermal Rating (Kw)	Hollow I/P Frame	Continuous Rated torque at different life cycles n2.h = o/p speed (rpm) x life in hours							
				n2.h 10000	n2.h 25000	n2.h 50000	n2.h 100000	n2.h 500000	n2.h 1000000	n2.h 5000000	n2.h 10000000
1160	3.60	7.5	80-132	1295	1169	1082	1001	836	773	671	650
	3.95	7.5	80-132	1471	1328	1229	1137	949	878	767	743
	4.42	7.5	80-132	1418	1280	1184	1096	915	847	745	722
	5.06	7.5	80-132	1285	1159	1073	993	829	767	681	660
	6.00	7.5	80-132	1167	1053	974	902	753	697	626	606
	7.50	7.5	80-132	941	849	786	727	607	562	512	496
2160	13.03	5	80-112	1295	1169	1082	1001	836	773	671	650
	14.30	5	80-112	1471	1328	1229	1137	949	878	767	743
	16.00	5	80-112	1418	1280	1184	1096	915	847	745	722
	17.78	5	80-112	1471	1328	1229	1137	949	878	767	743
	19.89	5	80-112	1418	1280	1184	1096	915	847	745	722
	20.54	5	80-112	1471	1328	1229	1137	949	878	767	743
	22.98	5	80-112	1418	1280	1184	1096	915	847	745	722
	24.69	5	80-112	1471	1328	1229	1137	949	878	767	743
	27.63	5	80-112	1418	1280	1184	1096	915	847	745	722
	31.20	5	80-112	1167	1053	974	902	753	697	626	606
	37.50	5	80-112	1167	1053	974	902	753	697	626	606
	46.88	5	80-112	941	849	786	727	607	562	512	496
2161	12.96	6	80-132	1295	1169	1082	1001	836	773	671	650
	14.22	6	80-132	1471	1328	1229	1137	949	878	767	743
	17.46	6	80-132	1471	1328	1229	1137	949	878	767	743
	19.99	6	80-132	1471	1328	1229	1137	949	878	767	743
	23.70	6	80-132	1471	1328	1229	1137	949	878	767	743
	26.52	6	80-132	1418	1280	1184	1096	915	847	745	722
	29.63	6	80-132	1471	1328	1229	1137	949	878	767	743
	33.15	6	80-132	1418	1280	1184	1096	915	847	745	722
	37.95	6	80-132	1285	1159	1073	993	829	767	681	660
	45.00	6	80-132	1167	1053	974	902	753	697	626	606
	56.25	6	80-132	941	849	786	727	607	562	512	496
	3160	57.10	3	63-80	1418	1280	1184	1096	915	847	745
63.20		3	63-80	1471	1328	1229	1137	949	878	767	743
70.70		3	63-80	1418	1280	1184	1096	915	847	745	722
78.60		3	63-80	1471	1328	1229	1137	949	878	767	743
88.00		3	63-80	1418	1280	1184	1096	915	847	745	722
94.50		3	63-80	1471	1328	1229	1137	949	878	767	743
105.70		3	63-80	1418	1280	1184	1096	915	847	745	722
113.80		3	63-80	1471	1328	1229	1137	949	878	767	743
126.40		3	63-80	1418	1280	1184	1096	915	847	745	722
135.80		3	63-80	1471	1328	1229	1137	949	878	767	743
147.90		3	63-80	1471	1328	1229	1137	949	878	767	743
151.90		3	63-80	1418	1280	1184	1096	915	847	745	722
163.90		3	63-80	1285	1159	1073	993	829	767	681	660
177.80		3	63-80	1471	1328	1229	1137	949	878	767	743
198.90		3	63-80	1418	1280	1184	1096	915	847	745	722
224.60		3	63-80	1167	1053	974	902	753	697	626	606
243.00		3	63-80	941	849	786	727	607	562	512	496
257.80		3	63-80	941	849	786	727	607	562	512	496
270.00	3	63-80	1167	1053	974	902	753	697	626	606	
280.80	3	63-80	941	849	786	727	607	562	512	496	

Model	Ratio	Thermal Rating (Kw)	Hollow I/P Frame	Continuous Rated torque at different life cycles n2.h = o/p speed (rpm) x life in hours							
				n2.h 10000	n2.h 25000	n2.h 50000	n2.h 100000	n2.h 500000	n2.h 1000000	n2.h 5000000	n2.h 10000000
3161	51.76	4	80-100	1471	1328	1229	1137	949	878	767	743
	57.20	4	80-100	1471	1328	1229	1137	949	878	767	743
	63.20	4	80-100	1471	1328	1229	1137	949	878	767	743
	74.35	4	80-100	1471	1328	1229	1137	949	878	767	743
	82.16	4	80-100	1471	1328	1229	1137	949	878	767	743
	89.37	4	80-100	1471	1328	1229	1137	949	878	767	743
	98.75	4	80-100	1471	1328	1229	1137	949	878	767	743
	103.43	4	80-100	1418	1280	1184	1096	915	847	745	722
	111.09	4	80-100	1471	1328	1229	1137	949	878	767	743
	119.52	4	80-100	1418	1280	1184	1096	915	847	745	722
	124.31	4	80-100	1418	1280	1184	1096	915	847	745	722
	136.82	4	80-100	1285	1159	1073	993	829	767	681	660
	143.65	4	80-100	1418	1280	1184	1096	915	847	745	722
	154.30	4	80-100	1471	1328	1229	1137	949	878	767	743
	164.45	4	80-100	1285	1159	1073	993	829	767	681	660
	172.66	4	80-100	1418	1280	1184	1096	915	847	745	722
	195.00	4	80-100	1167	1053	974	902	753	697	626	606
	210.94	4	80-100	941	849	786	727	607	562	512	496
	234.38	4	80-100	1167	1053	974	902	753	697	626	606
292.97	4	80-100	941	849	786	727	607	562	512	496	
4160	310.24	2	63-80	1471	1328	1229	1137	949	878	767	743
	365.98	2	63-80	1418	1280	1184	1096	915	847	745	722
	404.81	2	63-80	1418	1280	1184	1096	915	847	745	722
	447.30	2	63-80	1418	1280	1184	1096	915	847	745	722
	486.34	2	63-80	1418	1280	1184	1096	915	847	745	722
	527.54	2	63-80	1285	1159	1073	993	829	767	681	660
	554.10	2	63-80	1285	1159	1073	993	829	767	681	660
	695.27	2	63-80	1418	1280	1184	1096	915	847	745	722
	761.23	2	63-80	1418	1280	1184	1096	915	847	745	722
	795.60	2	63-80	1418	1280	1184	1096	915	847	745	722
	829.46	2	63-80	1418	1280	1184	1096	915	847	745	722
	910.80	2	63-80	1285	1159	1073	993	829	767	681	660
	916.53	2	63-80	1418	1280	1184	1096	915	847	745	722
	1093.95	2	63-80	1418	1280	1184	1096	915	847	745	722
	1191.49	2	63-80	1418	1280	1184	1096	915	847	745	722
	1204.88	2	63-80	941	849	786	727	607	562	512	496
	1364.01	2	63-80	1285	1159	1073	993	829	767	681	660
	1485.00	2	63-80	1167	1053	974	902	753	697	626	606
	1749.60	2	63-80	941	849	786	727	607	562	512	496
	1856.25	2	63-80	941	849	786	727	607	562	512	496
1944.00	2	63-80	1167	1053	974	902	753	697	626	606	
2021.76	2	63-80	941	849	786	727	607	562	512	496	

Model	Inline Ratio	BRX Ratio	Thermal Rating	Hollow I/P Frame	Continuous Rated torque at different life cycles n2.h = o/p speed (rpm) x life in hours							
					(Kw)	n2.h 10000	n2.h 25000	n2.h 50000	n2.h 100000	n2.h 500000	n2.h 1000000	n2.h 5000000
1190	3.60	8.10	10	100-132	2648	2390	2211	2046	1708	1581	1373	1329
	3.95	8.9	10	100-132	3008	2715	2512	2324	1941	1796	1569	1520
	4.42	9.9	10	100-132	2900	2617	2422	2241	1871	1731	1524	1476
	5.06	11.4	10	100-132	2627	2371	2194	2030	1695	1568	1393	1349
	6.00	13.5	10	100-132	2386	2153	1992	1844	1539	1424	1279	1239
	7.50	16.9	10	100-132	1925	1737	1607	1487	1242	1149	1047	1014
2190	12.96	29.2	7.5	100-132	2648	2390	2211	2046	1708	1581	1373	1329
	14.22	32.00	7.5	100-132	3008	2715	2512	2324	1941	1796	1569	1520
	15.60	35.10	7.5	100-132	3008	2715	2512	2324	1941	1796	1569	1520
	17.46	39.29	7.5	100-132	3008	2715	2512	2324	1941	1796	1569	1520
	19.99	44.98	7.5	100-132	3008	2715	2512	2324	1941	1796	1569	1520
	22.37	50.33	7.5	100-132	2900	2617	2422	2241	1871	1731	1524	1476
	26.52	59.67	7.5	100-132	2900	2617	2422	2241	1871	1731	1524	1476
	29.63	66.67	7.5	100-132	3008	2715	2512	2324	1941	1796	1569	1520
	33.15	74.59	7.5	100-132	2900	2617	2422	2241	1871	1731	1524	1476
	37.95	85.39	7.5	100-132	2627	2371	2194	2030	1695	1568	1393	1349
	45.00	101.25	7.5	100-132	2386	2153	1992	1844	1539	1424	1279	1239
	56.25	126.56	7.5	100-132	1925	1737	1607	1487	1242	1149	1047	1014
3190	46.92		5	80-100	2648	2390	2211	2046	1708	1581	1373	1329
	51.48		5	80-100	3008	2715	2512	2324	1941	1796	1569	1520
	56.48		5	80-100	3008	2715	2512	2324	1941	1796	1569	1520
	62.41		5	80-100	3008	2715	2512	2324	1941	1796	1569	1520
	69.84		5	80-100	3008	2715	2512	2324	1941	1796	1569	1520
	78.57		5	80-100	3008	2715	2512	2324	1941	1796	1569	1520
	85.79		5	80-100	3008	2715	2512	2324	1941	1796	1569	1520
	90.79		5	80-100	3008	2715	2512	2324	1941	1796	1569	1520
	97.52		5	80-100	3008	2715	2512	2324	1941	1796	1569	1520
	103.93		5	80-100	3008	2715	2512	2324	1941	1796	1569	1520
	109.12		5	80-100	3008	2715	2512	2324	1941	1796	1569	1520
	118.50		5	80-100	3008	2715	2512	2324	1941	1796	1569	1520
	123.24		5	80-100	3008	2715	2512	2324	1941	1796	1569	1520
	133.31		5	80-100	3008	2715	2512	2324	1941	1796	1569	1520
	148.13		5	80-100	3008	2715	2512	2324	1941	1796	1569	1520
	154.05		5	80-100	3008	2715	2512	2324	1941	1796	1569	1520
	160.02		5	80-100	2627	2371	2194	2030	1695	1568	1393	1349
	172.38		5	80-100	2900	2617	2422	2241	1871	1731	1524	1476
	185.16		5	80-100	3008	2715	2512	2324	1941	1796	1569	1520
	197.34		5	80-100	2627	2371	2194	2030	1695	1568	1393	1349
207.19		5	80-100	2900	2617	2422	2241	1871	1731	1524	1476	
225.00		5	80-100	2386	2153	1992	1844	1539	1424	1279	1239	
237.19		5	80-100	2627	2371	2194	2030	1695	1568	1393	1349	
253.13		5	80-100	1925	1737	1607	1487	1242	1149	1047	1014	
281.25		5	80-100	2386	2153	1992	1844	1539	1424	1279	1239	
292.50		5	80-100	1925	1737	1607	1487	1242	1149	1047	1014	
351.56		5	80-100	1925	1737	1607	1487	1242	1149	1047	1014	
4190	332.75		3	80-100	3008	2715	2512	2324	1941	1796	1569	1520
	367.75		3	80-100	2900	2617	2422	2241	1871	1731	1524	1476
	432.01		3	80-100	2900	2617	2422	2241	1871	1731	1524	1476
	480.01		3	80-100	2900	2617	2422	2241	1871	1731	1524	1476
	523.35		3	80-100	2900	2617	2422	2241	1871	1731	1524	1476
	596.70		3	80-100	2900	2617	2422	2241	1871	1731	1524	1476
	663.00		3	80-100	2900	2617	2422	2241	1871	1731	1524	1476
	717.10		3	80-100	2900	2617	2422	2241	1871	1731	1524	1476
	759.00		3	80-100	2627	2371	2194	2030	1695	1568	1393	1349
	873.64		3	80-100	2627	2371	2194	2030	1695	1568	1393	1349
	932.34		3	80-100	2900	2617	2422	2241	1871	1731	1524	1476
	986.70		3	80-100	2627	2371	2194	2030	1695	1568	1393	1349
	1035.94		3	80-100	2900	2617	2422	2241	1871	1731	1524	1476
	1048.38		3	80-100	2900	2617	2422	2241	1871	1731	1524	1476
	1185.94		3	80-100	2627	2371	2194	2030	1695	1568	1393	1349
	1233.38		3	80-100	2627	2371	2194	2030	1695	1568	1393	1349
	1482.42		3	80-100	2627	2371	2194	2030	1695	1568	1393	1349
	1582.03		3	80-100	1925	1737	1607	1487	1242	1149	1047	1014
	1757.81		3	80-100	2386	2153	1992	1844	1539	1424	1279	1239
	1828.13		3	80-100	1925	1737	1607	1487	1242	1149	1047	1014
2197.27		3	80-100	1925	1737	1607	1487	1242	1149	1047	1014	



Model	Inline Ratio	BRX Ratio	Thermal Rating	Hollow I/P Frame	Continuous Rated torque at different life cycles n2.h = o/p speed (rpm) x life in hours								
					(Kw)	n2.h 10000	n2.h 25000	n2.h 50000	n2.h 100000	n2.h 500000	n2.h 1000000	n2.h 5000000	n2.h 10000000
1240	3.60	8.10	15	132-180	4559	4115	3807	3523	2942	2722	2363	2289	
	3.95	8.89	15	132-180	5180	4675	4325	4002	3342	3092	2702	2617	
	4.42	9.95	15	132-180	4994	4507	4170	3859	3222	2982	2624	2542	
	5.06	11.39	15	132-180	4524	4083	3778	3496	2919	2701	2399	2323	
	6.00	13.50	15	132-180	4109	3709	3432	3175	2652	2453	2203	2134	
	7.50	16.8	15	132-180	3315	2992	2768	2562	2139	1979	1804	1747	
2240	14.22	32.00	12.5	80-132	4559	4115	3807	3523	2942	2722	2363	2289	
	15.60	35.10	12.5	80-132	5180	4675	4325	4002	3342	3092	2702	2617	
	17.46	39.29	12.5	80-132	4994	4507	4170	3859	3222	2982	2624	2542	
	19.54	43.97	12.5	80-132	4994	4507	4170	3859	3222	2982	2624	2542	
	22.37	50.33	12.5	80-132	4994	4507	4170	3859	3222	2982	2624	2542	
	25.60	57.60	12.5	80-132	4524	4083	3778	3496	2919	2701	2399	2323	
	29.63	66.67	12.5	80-132	3315	2992	2768	2562	2139	1979	1804	1747	
	30.36	68.31	12.5	80-132	4524	4083	3778	3496	2919	2701	2399	2323	
	33.15	74.59	12.5	80-132	3315	2992	2768	2562	2139	1979	1804	1747	
	36.00	81.00	12.5	80-132	4109	3709	3432	3175	2652	2453	2203	2134	
	45.00	101.25	12.5	80-132	4109	3709	3432	3175	2652	2453	2203	2134	
	56.25	126.56	12.5	80-132	3315	2992	2768	2562	2139	1979	1804	1747	
	3240	46.92	105.57	7.5	80-112	4559	4115	3807	3523	2942	2722	2363	2289
		51.48	115.83	7.5	80-112	5180	4675	4325	4002	3342	3092	2702	2617
56.48		127.08	7.5	80-112	5180	4675	4325	4002	3342	3092	2702	2617	
63.20		142.20	7.5	80-112	5180	4675	4325	4002	3342	3092	2702	2617	
69.84		157.14	7.5	80-112	5180	4675	4325	4002	3342	3092	2702	2617	
73.94		166.37	7.5	80-112	5180	4675	4325	4002	3342	3092	2702	2617	
80.96		182.16	7.5	80-112	4994	4507	4170	3859	3222	2982	2624	2542	
85.79		193.03	7.5	80-112	5180	4675	4325	4002	3342	3092	2702	2617	
90.79		204.28	7.5	80-112	5180	4675	4325	4002	3342	3092	2702	2617	
96.00		216.00	7.5	80-112	4994	4507	4170	3859	3222	2982	2624	2542	
100.64		226.44	7.5	80-112	4994	4507	4170	3859	3222	2982	2624	2542	
106.65		239.96	7.5	80-112	5180	4675	4325	4002	3342	3092	2702	2617	
112.32		252.72	7.5	80-112	4559	4115	3807	3523	2942	2722	2363	2289	
118.50		266.63	7.5	80-112	5180	4675	4325	4002	3342	3092	2702	2617	
122.10		274.73	7.5	80-112	4994	4507	4170	3859	3222	2982	2624	2542	
132.60		298.35	7.5	80-112	4994	4507	4170	3859	3222	2982	2624	2542	
139.78		314.51	7.5	80-112	4994	4507	4170	3859	3222	2982	2624	2542	
149.18		335.66	7.5	80-112	4994	4507	4170	3859	3222	2982	2624	2542	
154.05		346.61	7.5	80-112	5180	4675	4325	4002	3342	3092	2702	2617	
165.75		372.94	7.5	80-112	4994	4507	4170	3859	3222	2982	2624	2542	
172.38		387.86	7.5	80-112	4994	4507	4170	3859	3222	2982	2624	2542	
185.16		416.61	7.5	80-112	5180	4675	4325	4002	3342	3092	2702	2617	
202.50		455.63	7.5	80-112	4109	3709	3432	3175	2652	2453	2203	2134	
234.00		526.50	7.5	80-112	4109	3709	3432	3175	2652	2453	2203	2134	
253.13	569.54	7.5	80-112	3315	2992	2768	2562	2139	1979	1804	1747		
281.25	632.81	7.5	80-112	4109	3709	3432	3175	2652	2453	2203	2134		
292.50	658.13	7.5	80-112	3315	2992	2768	2562	2139	1979	1804	1747		
351.56	791.01	7.5	80-112	3315	2992	2768	2562	2139	1979	1804	1747		
4240	319.79	719.53	5	80-100	5180	4675	4325	4002	3342	3092	2702	2617	
	372.34	837.77	5	80-100	4994	4507	4170	3859	3222	2982	2624	2542	
	424.32	954.72	5	80-100	4994	4507	4170	3859	3222	2982	2624	2542	
	472.09	1062.21	5	80-100	4994	4507	4170	3859	3222	2982	2624	2542	
	523.77	1178.48	5	80-100	4994	4507	4170	3859	3222	2982	2624	2542	
	596.70	1342.58	5	80-100	4994	4507	4170	3859	3222	2982	2624	2542	
	659.38	1483.61	5	80-100	4994	4507	4170	3859	3222	2982	2624	2542	
	726.87	1635.46	5	80-100	4994	4507	4170	3859	3222	2982	2624	2542	
	861.90	1939.28	5	80-100	4994	4507	4170	3859	3222	2982	2624	2542	
	896.90	2016.85	5	80-100	4994	4507	4170	3859	3222	2982	2624	2542	
	948.75	2134.69	5	80-100	4524	4083	3778	3496	2919	2701	2399	2323	
	1035.94	2330.86	5	80-100	4994	4507	4170	3859	3222	2982	2624	2542	
	1294.92	2913.57	5	80-100	4994	4507	4170	3859	3222	2982	2624	2542	
	1482.42	3335.45	5	80-100	4524	4083	3778	3496	2919	2701	2399	2323	
	1582.03	3559.57	5	80-100	3315	2992	2768	2562	2139	1979	1804	1747	
	1757.81	3955.08	5	80-100	3315	2992	2768	2562	2139	1979	1804	1747	
	1828.13	4113.28	5	80-100	3315	2992	2768	2562	2139	1979	1804	1747	
	2197.27	4943.85	5	80-100	3315	2992	2768	2562	2139	1979	1804	1747	

Model	Inline Ratio	BRX Ratio	Thermal Rating	Hollow I/P Frame	Continuous Rated torque at different life cycles n2.h = o/p speed (rpm) x life in hours							
					(Kw)	n2.h 10000	n2.h 25000	n2.h 50000	n2.h 100000	n2.h 500000	n2.h 1000000	n2.h 5000000
1260	3.60	8.28	20	132-180	6327	5710	5284	4889	4083	3778	3280	3177
	3.95	9.09	20	132-180	7189	6487	6003	5554	4638	4292	3750	3631
	4.42	10.17	20	132-180	6931	6255	5788	5356	4472	4138	3642	3527
	5.06	11.64	20	132-180	6279	5667	5243	4852	4052	3749	3329	3224
	6.00	13.80	20	132-180	5704	5147	4763	4407	3680	3405	3058	2962
	7.50	17.25	20	132-180	4602	4153	3843	3556	2969	2747	2504	2425
2260	12.96	29.16	15	112-160	6327	5710	5284	4889	4083	3778	3280	3177
	14.22	32.00	15	112-160	7189	6487	6003	5554	4638	4292	3750	3631
	15.60	35.10	15	112-160	7189	6487	6003	5554	4638	4292	3750	3631
	17.46	39.29	15	112-160	7189	6487	6003	5554	4638	4292	3750	3631
	19.54	43.97	15	112-160	6931	6255	5788	5356	4472	4138	3642	352
	19.99	44.98	15	112-160	7189	6487	6003	5554	4638	4292	3750	3631
	21.60	48.60	15	112-160	6327	5710	5284	4889	4083	3778	3280	3177
	22.37	50.33	15	112-160	6931	6255	5788	5356	4472	4138	3642	3527
	23.70	53.33	15	112-160	7189	6487	6003	5554	4638	4292	3750	3631
	25.60	57.60	15	112-160	6279	5667	5243	4852	4052	3749	3329	3224
	27.00	60.75	15	112-160	6327	5710	5284	4889	4083	3778	3280	3177
	29.63	66.67	15	112-160	7189	6487	6003	5554	4638	4292	3750	3631
	30.36	68.31	15	112-160	6279	5667	5243	4852	4052	3749	3329	3224
	33.15	74.59	15	112-160	6931	6255	5788	5356	4472	4138	3642	3527
	36.00	81.00	15	112-160	5704	5147	4763	4407	3680	3405	3058	2962
	37.95	85.39	15	112-160	6279	5667	5243	4852	4052	3749	3329	3224
	45.00	101.25	15	112-160	5704	5147	4763	4407	3680	3405	3058	2962
	56.25	126.56	15	112-160	4602	4153	3843	3556	2969	2747	2504	2425
3260	51.19	115.18	7.5	90-132	7189	6487	6003	5554	4638	4292	3750	3631
	61.63	138.67	7.5	90-132	7189	6487	6003	5554	4638	4292	3750	3631
	68.96	155.16	7.5	90-132	7189	6487	6003	5554	4638	4292	3750	3631
	71.95	161.89	7.5	90-132	7189	6487	6003	5554	4638	4292	3750	3631
	77.17	173.63	7.5	90-132	7189	6487	6003	5554	4638	4292	3750	3631
	80.51	181.15	7.5	90-132	6931	6255	5788	5356	4472	4138	3642	3527
	85.32	191.97	7.5	90-132	7189	6487	6003	5554	4638	4292	3750	3631
	93.62	210.65	7.5	90-132	7189	6487	6003	5554	4638	4292	3750	3631
	101.13	227.54	7.5	90-132	7189	6487	6003	5554	4638	4292	3750	3631
	106.65	239.96	7.5	90-132	7189	6487	6003	5554	4638	4292	3750	3631
	113.17	254.63	7.5	90-132	6931	6255	5788	5356	4472	4138	3642	3527
	119.34	268.52	7.5	90-132	6931	6255	5788	5356	4472	4138	3642	3527
	129.55	291.49	7.5	90-132	6279	5667	5243	4852	4052	3749	3329	3224
	134.19	301.93	7.5	90-132	6931	6255	5788	5356	4472	4138	3642	3527
	142.20	319.95	7.5	90-132	7189	6487	6003	5554	4638	4292	3750	3631
	149.90	337.28	7.5	90-132	7189	6487	6003	5554	4638	4292	3750	3631
	153.62	345.65	7.5	90-132	6279	5667	5243	4852	4052	3749	3329	3224
	162.00	364.50	7.5	90-132	6327	5710	5284	4889	4083	3778	3280	3177
	177.75	399.94	7.5	90-132	7189	6487	6003	5554	4638	4292	3750	3631
	182.16	409.86	7.5	90-132	6279	5667	5243	4852	4052	3749	3329	3224
	198.90	447.53	7.5	90-132	6931	6255	5788	5356	4472	4138	3642	3527
	202.50	455.63	7.5	90-132	6327	5710	5284	4889	4083	3778	3280	3177
	222.19	499.93	7.5	90-132	7189	6487	6003	5554	4638	4292	3750	3631
	248.63	559.42	7.5	90-132	6931	6255	5788	5356	4472	4138	3642	3527
	270.00	607.50	7.5	90-132	6279	5667	5243	4852	4052	3749	3329	3224
	284.63	640.42	7.5	90-132	6279	5667	5243	4852	4052	3749	3329	3224
	337.50	759.38	7.5	90-132	6279	5667	5243	4852	4052	3749	3329	3224
	421.88	949.23	7.5	90-132	4602	4153	3843	3556	2969	2747	2504	2425

Model	Inline Ratio	BRX Ratio	Thermal Rating	Hollow I/P Frame	Continuous Rated torque at different life cycles n2.h = o/p speed (rpm) x life in hours							
					(Kw)	n2.h 10000	n2.h 25000	n2.h 50000	n2.h 100000	n2.h 500000	n2.h 1000000	n2.h 5000000
4260	308.68	694.52	5	80-112	6931	6255	5788	5356	4472	4138	3642	3527
	343.70	773.32	5	80-112	6931	6255	5788	5356	4472	4138	3642	3527
	355.88	800.72	5	80-112	6931	6255	5788	5356	4472	4138	3642	3527
	377.11	848.51	5	80-112	6931	6255	5788	5356	4472	4138	3642	3527
	471.39	1060.63	5	80-112	6931	6255	5788	5356	4472	4138	3642	3527
	503.22	1132.24	5	80-112	6931	6255	5788	5356	4472	4138	3642	3527
	527.48	1186.84	5	80-112	6931	6255	5788	5356	4472	4138	3642	3527
	539.65	1214.21	5	80-112	6279	5667	5243	4852	4052	3749	3329	3224
	589.24	1325.79	5	80-112	6931	6255	5788	5356	4472	4138	3642	3527
	636.48	1432.08	5	80-112	6931	6255	5788	5356	4472	4138	3642	3527
	716.04	1611.09	5	80-112	6931	6255	5788	5356	4472	4138	3642	3527
	818.39	1841.38	5	80-112	6931	6255	5788	5356	4472	4138	3642	3527
	895.05	2013.86	5	80-112	6931	6255	5788	5356	4472	4138	3642	3527
	994.50	2237.63	5	80-112	6931	6255	5788	5356	4472	4138	3642	3527
	1048.37	2358.80	5	80-112	6931	6255	5788	5356	4472	4138	3642	3527
	1138.50	2561.63	5	80-112	6279	5667	5243	4852	4052	3749	3329	3224
	1280.81	2881.83	5	80-112	6279	5667	5243	4852	4052	3749	3329	3224
	1388.67	3124.51	5	80-112	7189	6487	6003	5554	4638	4292	3750	3631
	1553.91	3496.29	5	80-112	6931	6255	5788	5356	4472	4138	3642	3527
	1687.50	3796.88	5	80-112	5704	5147	4763	4407	3680	3405	3058	2962
1778.91	4002.54	5	80-112	6279	5667	5243	4852	4052	3749	3329	3224	
2193.75	4935.94	5	80-112	4602	4153	3843	3556	2969	2747	2504	2425	
2636.72	5932.62	5	80-112	4602	4153	3843	3556	2969	2747	2504	2425	
1262	4.42	10.17	20	132-180	9242	8340	7717	7141	5963	5518	4856	4703
	5.33	12.26	20	132-180	8372	7556	6991	6469	5402	4999	4439	4299
2262	15.91	35.80	15	112-160	9242	8340	7717	7141	5963	5518	4856	4703
	17.45	39.26	15	112-160	8372	7556	6991	6469	5402	4999	4439	4299
	19.53	43.94	15	112-160	9242	8340	7717	7141	5963	5518	4856	4703
	22.36	50.31	15	112-160	9242	8340	7717	7141	5963	5518	4856	4703
	26.50	59.63	15	112-160	9242	8340	7717	7141	5963	5518	4856	4703
	33.15	74.59	15	112-160	9242	8340	7717	7141	5963	5518	4856	4703
	39.97	89.93	15	112-160	9242	8340	7717	7141	5963	5518	4856	4703
3262	57.28	128.28	7.5	90-132	9242	8340	7717	7141	5963	5518	4856	4703
	62.82	141.35	7.5	90-132	9242	8340	7717	7141	5963	5518	4856	4703
	70.31	158.20	7.5	90-132	9242	8340	7717	7141	5963	5518	4856	4703
	80.50	181.13	7.5	90-132	9242	8340	7717	7141	5963	5518	4856	4703
	95.46	214.79	7.5	90-132	9242	8340	7717	7141	5963	5518	4856	4703
	104.70	235.58	7.5	90-132	9242	8340	7717	7141	5963	5518	4856	4703
	117.18	263.66	7.5	90-132	9242	8340	7717	7141	5963	5518	4856	4703
	130.88	294.48	7.5	90-132	9242	8340	7717	7141	5963	5518	4856	4703
	146.48	329.58	7.5	90-132	9242	8340	7717	7141	5963	5518	4856	4703
	159.00	357.75	7.5	90-132	9242	8340	7717	7141	5963	5518	4856	4703
	167.74	377.42	7.5	90-132	9242	8340	7717	7141	5963	5518	4856	4703
	176.36	396.81	7.5	90-132	8372	7556	6991	6469	5402	4999	4439	4299
	198.36	447.19	7.5	90-132	9242	8340	7717	7141	5963	5518	4856	4703
	239.40	538.65	7.5	90-132	9242	8340	7717	7141	5963	5518	4856	4703
	248.63	559.42	7.5	90-132	9242	8340	7717	7141	5963	5518	4856	4703
	299.25	673.31	7.5	90-132	8372	7556	6991	6469	5402	4999	4439	4299
4262	310.77	699.23	5	80-112	8372	7556	6991	6469	5402	4999	4439	4299
	355.83	800.62	5	80-112	8372	7556	6991	6469	5402	4999	4439	4299
	421.93	949.35	5	80-112	8372	7556	6991	6469	5402	4999	4439	4299
	462.77	1041.24	5	80-112	8372	7556	6991	6469	5402	4999	4439	4299
	578.49	1301.60	5	80-112	8372	7556	6991	6469	5402	4999	4439	4299
	647.44	1456.74	5	80-112	8372	7556	6991	6469	5402	4999	4439	4299
	702.78	1581.26	5	80-112	8372	7556	6991	6469	5402	4999	4439	4299
	780.74	1756.66	5	80-112	9242	8340	7717	7141	5963	5518	4856	4703
	878.48	1976.57	5	80-112	8372	7556	6991	6469	5402	4999	4439	4299
	940.00	2115.00	5	80-112	9242	8340	7717	7141	5963	5518	4856	4703
	1058.15	2380.83	5	80-112	8372	7556	6991	6469	5402	4999	4439	4299
	1098.94	2472.63	5	80-112	8372	7556	6991	6469	5402	4999	4439	4299
	1322.69	2976.04	5	80-112	8372	7556	6991	6469	5402	4999	4439	4299

Model	Inline Ratio	BRX Ratio	Thermal Rating	Hollow I/P Frame	Continuous Rated torque at different life cycles n2.h = o/p speed (rpm) x life in hours							
					(Kw)	n2.h 10000	n2.h 25000	n2.h 50000	n2.h 100000	n2.h 500000	n2.h 1000000	n2.h 5000000
1280	3.48	8.00	25	160-200	8097	7307	6761	6256	5224	4834	4188	4056
	3.82	8.79	25	160-200	10071	9088	8409	7781	6498	6012	5241	5076
	4.26	9.80	25	160-200	9998	9023	8349	7725	6451	5969	5241	5076
	4.88	11.22	25	160-200	9276	8372	7746	7168	5985	5538	4906	4751
	5.77	13.27	25	160-200	8441	7618	7049	6522	5447	5040	4514	4372
	7.20	16.56	25	160-200	6827	6161	5701	5275	4405	4076	3705	3588
2280	12.53	28.19	20	132-180	8097	7307	6761	6256	5224	4834	4188	4056
	15.08	33.93	20	132-180	10071	9088	8409	7781	6498	6012	5241	5076
	17.55	39.49	20	132-180	9276	8372	7746	7168	5985	5538	4906	4751
	19.32	43.47	20	132-180	10071	9088	8409	7781	6498	6012	5241	5076
	22.91	51.55	20	132-180	10071	9088	8409	7781	6498	6012	5241	5076
	25.58	57.56	20	132-180	9998	9023	8349	7725	6451	5969	5241	5076
	28.64	64.44	20	132-180	10071	9088	8409	7781	6498	6012	5241	5076
	31.97	71.93	20	132-180	9998	9023	8349	7725	6451	5969	5241	5076
	36.56	82.26	20	132-180	9276	8372	7746	7168	5985	5538	4906	4751
	43.27	97.36	20	132-180	8441	7618	7049	6522	5447	5040	4514	4372
	54.00	121.50	20	132-180	6827	6161	5701	5275	4405	4076	3705	3588
	3280	59.57	134.03	10	100-132	10071	9088	8409	7781	6498	6012	5241
66.66		149.99	10	100-132	10071	9088	8409	7781	6498	6012	5241	5076
74.59		167.83	10	100-132	10071	9088	8409	7781	6498	6012	5241	5076
82.47		185.56	10	100-132	10071	9088	8409	7781	6498	6012	5241	5076
85.39		192.13	10	100-132	10071	9088	8409	7781	6498	6012	5241	5076
92.08		207.18	10	100-132	9998	9023	8349	7725	6451	5969	5241	5076
97.76		219.96	10	100-132	10071	9088	8409	7781	6498	6012	5241	5076
103.09		231.95	10	100-132	10071	9088	8409	7781	6498	6012	5241	5076
109.15		245.59	10	100-132	9998	9023	8349	7725	6451	5969	5241	5076
113.11		254.50	10	100-132	10071	9088	8409	7781	6498	6012	5241	5076
115.92		260.82	10	100-132	10071	9088	8409	7781	6498	6012	5241	5076
126.57		284.78	10	100-132	10071	9088	8409	7781	6498	6012	5241	5076
137.45		309.26	10	100-132	10071	9088	8409	7781	6498	6012	5241	5076
144.90		326.03	10	100-132	10071	9088	8409	7781	6498	6012	5241	5076
153.47		345.31	10	100-132	9998	9023	8349	7725	6451	5969	5241	5076
161.79		364.03	10	100-132	9998	9023	8349	7725	6451	5969	5241	5076
171.82		386.60	10	100-132	10071	9088	8409	7781	6498	6012	5241	5076
175.50		394.88	10	100-132	9276	8372	7746	7168	5985	5538	4906	4751
191.84		431.64	10	100-132	9998	9023	8349	7725	6451	5969	5241	5076
214.77		483.23	10	100-132	10071	9088	8409	7781	6498	6012	5241	5076
219.38		493.61	10	100-132	9276	8372	7746	7168	5985	5538	4906	4751
239.80		539.55	10	100-132	9998	9023	8349	7725	6451	5969	5241	5076
259.62		584.15	10	100-132	8441	7618	7049	6522	5447	5040	4514	4372
274.22		617.00	10	100-132	9276	8372	7746	7168	5985	5538	4906	4751
324.52	730.17	10	100-132	8441	7618	7049	6522	5447	5040	4514	4372	
405.00	911.25	10	100-132	6827	6161	5701	5275	4405	4076	3705	3588	
4280	363.46	817.79	6	90-112	9998	9023	8349	7725	6451	5969	5241	5076
	448.88	1009.98	6	90-112	9276	8372	7746	7168	5885	5538	4906	4751
	478.48	1076.59	6	90-112	9998	9023	8349	7725	6451	5969	5241	5076
	492.92	1109.07	6	90-112	8441	7618	7049	6522	5447	5040	4514	4372
	517.33	1164.00	6	90-112	9998	9023	8349	7725	6451	5969	5241	5076
	582.00	1309.50	6	90-112	9998	9023	8349	7725	6451	5969	5241	5076
	644.63	1450.41	6	90-112	9998	9023	8349	7725	6451	5969	5241	5076
	718.88	1617.47	6	90-112	9998	9023	8349	7725	6451	5969	5241	5076
	788.77	1774.72	6	90-112	9998	9023	8349	7725	6451	5969	5241	5076
	839.49	1888.85	6	90-112	9276	8372	7746	7168	5885	5538	4906	4751
	996.84	2242.89	6	90-112	9998	9023	8349	7725	6451	5969	5241	5076
	1078.31	2426.20	6	90-112	9998	9023	8349	7725	6451	5969	5241	5076
	1198.13	2695.78	6	90-112	9998	9023	8349	7725	6451	5969	5241	5076
	1246.05	2803.61	6	90-112	9998	9023	8349	7725	6451	5969	5241	5076
	1497.66	3369.73	6	90-112	9998	9023	8349	7725	6451	5969	5241	5076
	1622.81	3651.33	6	90-112	8441	7618	7049	6522	5447	5040	4514	4372
	1707.75	3842.44	6	90-112	6827	6161	5701	5275	4405	4076	3705	3588
	1822.50	4100.63	6	90-112	6827	6161	5701	5275	4405	4076	3705	3588
	2025.00	4556.25	6	90-112	6827	6161	5701	5275	4405	4076	3705	3588
	2106.00	4738.50	6	90-112	6827	6161	5701	5275	4405	4076	3705	3588
	2531.25	5695.31	6	90-112	6827	6161	5701	5275	4405	4076	3705	3588

Model	Inline Ratio	BRX Ratio	Thermal Rating	Hollow I/P Frame	Continuous Rated torque at different life cycles n2.h = o/p speed (rpm) x life in hours							
					(Kw)	n2.h 10000	n2.h 25000	n2.h 50000	n2.h 100000	n2.h 500000	n2.h 1000000	n2.h 5000000
1300	3.60	9.14	30	160-250	16584	14967	13849	12814	10701	9901	8597	8326
	3.95	10.03	30	160-250	18842	17004	15734	14559	12158	11249	9828	9519
	4.42	11.23	30	160-250	18169	16397	15172	14039	11723	10874	9547	9246
	5.06	12.85	30	160-250	16461	14855	13746	12719	10621	9828	8727	8452
	6.00	15.24	30	160-250	14953	13494	12486	11554	9648	8927	8017	7764
	7.50	19.05	30	160-250	12065	10888	10075	9322	7784	7203	6564	6358
2300	12.96	29.16	22	112-180	16584	14967	13849	12814	10701	9901	8597	8326
	14.22	32.00	22	112-180	18842	17004	15734	14559	12158	11249	9828	9519
	15.60	35.10	22	112-180	18842	17004	15734	14559	12158	11249	9828	9519
	17.46	39.29	22	112-180	18842	17004	15734	14559	12158	11249	9828	9519
	19.54	43.97	22	112-180	18169	16397	15172	14039	11723	10874	9547	9246
	21.60	48.60	22	112-180	14953	13494	12486	11554	9648	8927	8017	7764
	23.70	53.33	22	112-180	14953	13494	12486	11554	9648	8927	8017	7764
	25.60	57.60	22	112-180	16461	14855	13746	12719	10621	9828	8727	8452
	27.00	60.75	22	112-180	16584	14967	13849	12814	10701	9901	8597	8326
	29.63	66.67	22	112-180	18842	17004	15734	14559	12158	11249	9828	9519
	30.36	68.31	22	112-180	16461	14855	13746	12719	10621	9828	8727	8452
	33.15	74.59	22	112-180	18169	16397	15172	14039	11723	10874	9547	9246
	36.00	81.00	22	112-180	14953	13494	12486	11554	9648	8927	8017	7764
	37.95	85.39	22	112-180	16461	14855	13746	12719	10621	9828	8727	8452
	45.00	101.25	22	112-180	14953	13494	12486	11554	9648	8927	8017	7764
	56.25	126.56	22	112-180	12065	10888	10075	9322	7784	7203	6564	6358
3300	51.19	115.18	12.5	90-132	18842	17004	15734	14559	12158	11249	9828	9519
	56.17	126.38	12.5	90-132	18842	17004	15734	14559	12158	11249	9828	9519
	61.63	138.67	12.5	90-132	18842	17004	15734	14559	12158	11249	9828	9519
	68.96	155.16	12.5	90-132	18842	17004	15734	14559	12158	11249	9828	9519
	71.95	161.89	12.5	90-132	18842	17004	15734	14559	12158	11249	9828	9519
	77.17	173.63	12.5	90-132	18842	17004	15734	14559	12158	11249	9828	9519
	80.51	181.15	12.5	90-132	18169	16397	15172	14039	11723	10874	9547	9246
	85.32	191.97	12.5	90-132	18842	17004	15734	14559	12158	11249	9828	9519
	93.62	210.65	12.5	90-132	18842	17004	15734	14559	12158	11249	9828	9519
	101.13	227.54	12.5	90-132	18842	17004	15734	14559	12158	11249	9828	9519
	106.65	239.96	12.5	90-132	18842	17004	15734	14559	12158	11249	9828	9519
	113.17	254.63	12.5	90-132	18169	16397	15172	14039	11723	10874	9547	9246
	119.34	268.52	12.5	90-132	18169	16397	15172	14039	11723	10874	9547	9246
	129.55	291.49	12.5	90-132	16461	14855	13746	12719	10621	9828	8727	8452
	134.19	301.93	12.5	90-132	18169	16397	15172	14039	11723	10874	9547	9246
	142.20	319.95	12.5	90-132	18842	17004	15734	14559	12158	11249	9828	9519
	149.90	337.28	12.5	90-132	18842	17004	15734	14559	12158	11249	9828	9519
	153.62	345.65	12.5	90-132	14953	13494	12486	11554	9648	8927	8017	7764
	162.00	364.50	12.5	90-132	16584	14967	13849	12814	10701	9901	8597	8326
	177.75	399.94	12.5	90-132	18842	17004	15734	14559	12158	11249	9828	9519
	182.16	409.86	12.5	90-132	16461	14855	13746	12719	10621	9828	8727	8452
	198.16	447.53	12.5	90-132	18169	16397	15172	14039	11723	10874	9547	9246
	202.50	455.63	12.5	90-132	16584	14967	13849	12814	10701	9901	8597	8326
	222.19	499.93	12.5	90-132	18842	17004	15734	14559	12158	11249	9828	9519
	248.63	559.42	12.5	90-132	18169	16397	15172	14039	11723	10874	9547	9246
	270.00	607.50	12.5	90-132	14953	13494	12486	11554	9648	8927	8017	7764
284.63	640.42	12.5	90-132	16461	14855	13746	12719	10621	9828	8727	8452	
337.50	759.38	12.5	90-132	16461	14855	13746	12719	10621	9828	8727	8452	
421.88	949.23	12.5	90-132	12065	10888	10075	9322	7784	7203	6564	6358	
4300	377.11	848.50	7.5	90-112	18169	16397	15172	14039	11723	10874	9547	9246
	473.72	1065.87	7.5	90-112	16461	14855	13746	12719	10621	9828	8727	8452
	539.65	1214.21	7.5	90-112	16461	14855	13746	12719	10621	9828	8727	8452
	603.86	1358.69	7.5	90-112	16461	14855	13746	12719	10621	9828	8727	8452
	679.01	1527.77	7.5	90-112	18169	16397	15172	14039	11723	10874	9547	9246
	702.11	1579.75	7.5	90-112	18842	17004	15734	14559	12158	11249	9828	9519
	785.66	1767.72	7.5	90-112	18169	16397	15172	14039	11723	10874	9547	9246
	805.15	1811.58	7.5	90-112	18169	16397	15172	14039	11723	10874	9547	9246
	1098.92	2472.58	7.5	90-112	18169	16397	15172	14039	11723	10874	9547	9246
	1124.27	2529.60	7.5	90-112	18842	17004	15734	14559	12158	11249	9828	9519
	1193.40	2685.15	7.5	90-112	18169	16397	15172	14039	11723	10874	9547	9246
	1258.04	2830.60	7.5	90-112	18169	16397	15172	14039	11723	10874	9547	9246
	1333.13	2999.53	7.5	90-112	18842	17004	15734	14559	12158	11249	9828	9519
	1491.75	3356.44	7.5	90-112	18169	16397	15172	14039	11723	10874	9547	9246
	1666.41	3749.41	7.5	90-112	18842	17004	15734	14559	12158	11249	9828	9519
	1864.69	4195.55	7.5	90-112	18169	16397	15172	14039	11723	10874	9547	9246
	2025.00	4556.25	7.5	90-112	12065	10888	10075	9322	7784	7203	6564	6358
	2134.69	4803.05	7.5	90-112	16461	14855	13746	12719	10621	9828	8727	8452
	2531.25	5695.31	7.5	90-112	12065	10888	10075	9322	7784	7203	6564	6358
	3164.06	7119.14	7.5	90-112	12065	10888	10075	9322	7784	7203	6564	6358

Model	Inline Ratio	BRX Ratio	Thermal Rating	Hollow I/P Frame	Continuous Rated torque at different life cycles n2.h = o/p speed (rpm) x life in hours							
					(Kw)	n2.h 10000	n2.h 25000	n2.h 50000	n2.h 100000	n2.h 500000	n2.h 1000000	n2.h 5000000
1340	3.60	9.14	40	132-280	24048	21703	20082	18582	15517	14358	12466	12073
	3.95	10.03	40	132-280	27324	24659	22817	21112	17630	16313	14252	13803
	4.42	11.23	40	132-280	26348	23779	22002	20359	17001	15731	13845	13409
	5.06	12.85	40	132-280	23873	21544	19935	18446	15403	14253	12657	12258
	6.00	15.24	40	132-280	21687	19572	18110	16757	13993	12948	11627	11261
	7.50	19.05	40	132-280	17499	15792	14613	13521	11291	10448	9521	9222
2340	12.96	29.81	25	112-180	24048	21703	20082	18582	15517	14358	12466	12073
	14.22	32.71	25	112-180	27324	24659	22817	21112	17630	16313	14252	13803
	15.60	35.88	25	112-180	27324	24659	22817	21112	17630	16313	14252	13803
	17.46	40.16	25	112-180	27324	24659	22817	21112	17630	16313	14252	13803
	19.54	44.94	25	112-180	26348	23779	22002	20359	17001	15731	13845	13409
	21.60	49.68	25	112-180	21687	19572	18110	16757	13993	12948	11627	11261
	22.37	51.45	25	112-180	26348	23779	22002	20359	17001	15731	13845	13409
	23.70	54.51	25	112-180	21687	19572	18110	16757	13993	12948	11627	11261
	25.60	58.88	25	112-180	23873	21544	19935	18446	15403	14253	12657	12258
	27.00	62.10	25	112-180	24048	21703	20082	18582	15517	14358	12466	12073
	29.63	68.15	25	112-180	27324	24659	22817	21112	17630	16313	14252	13803
	30.36	69.83	25	112-180	23873	21544	19935	18446	15403	14253	12657	12258
	33.15	76.25	25	112-180	26348	23779	22002	20359	17001	15731	13845	13409
	36.00	82.80	25	112-180	21687	19572	18110	16757	13993	12948	11627	11261
	37.95	87.29	25	112-180	23873	21544	19935	18446	15403	14253	12657	12258
	45.00	103.50	25	112-180	21687	19572	18110	16757	13993	12948	11627	11261
	56.25	129.38	25	112-180	17499	15792	14613	13521	11291	10448	9521	9222
	3340	51.19	115.18	15	90-132	27324	24659	22817	21112	17630	16313	14252
56.17		126.38	15	90-132	27324	24659	22817	21112	17630	16313	14252	13803
61.63		138.67	15	90-132	27324	24659	22817	21112	17630	16313	14252	13803
68.96		155.16	15	90-132	27324	24659	22817	21112	17630	16313	14252	13803
71.95		161.89	15	90-132	27324	24659	22817	21112	17630	16313	14252	13803
77.17		173.63	15	90-132	27324	24659	22817	21112	17630	16313	14252	13803
80.51		181.15	15	90-132	26348	23779	22002	20359	17001	15731	13845	13409
85.32		191.97	15	90-132	27324	24659	22817	21112	17630	16313	14252	13803
93.62		210.65	15	90-132	27324	24659	22817	21112	17630	16313	14252	13803
101.13		227.54	15	90-132	27324	24659	22817	21112	17630	16313	14252	13803
106.65		239.96	15	90-132	27324	24659	22817	21112	17630	16313	14252	13803
113.17		254.63	15	90-132	26348	23779	22002	20359	17001	15731	13845	13409
119.34		268.52	15	90-132	26348	23779	22002	20359	17001	15731	13845	13409
129.55		291.49	15	90-132	23873	21544	19935	18446	15403	14253	12657	12258
134.19		301.93	15	90-132	26348	23779	22002	20359	17001	15731	13845	13409
142.20		319.95	15	90-132	27324	24659	22817	21112	17630	16313	14252	13803
149.90		337.28	15	90-132	27324	24659	22817	21112	17630	16313	14252	13803
153.62		345.65	15	90-132	21687	19572	18110	16757	13993	12948	11627	11261
162.00		364.50	15	90-132	24048	21703	20082	18582	15517	14358	12466	12073
177.75		399.94	15	90-132	27324	24659	22817	21112	17630	16313	14252	13803
182.16		409.86	15	90-132	23873	21544	19935	18446	15403	14253	12657	12258
198.90		447.53	15	90-132	26348	23779	22002	20359	17001	15731	13845	13409
202.50		455.63	15	90-132	24048	21703	20082	18582	15517	14358	12466	12073
222.19		499.93	15	90-132	27324	24659	22817	21112	17630	16313	14252	13803
248.63		559.42	15	90-132	26348	23779	22002	20359	17001	15731	13845	13409
270.00		607.50	15	90-132	21687	19572	18110	16757	13993	12948	11627	11261
284.63		640.42	15	90-132	23873	21544	19935	18446	15403	14253	12657	12258
337.50	759.38	15	90-132	23873	21544	19935	18446	15403	14253	12657	12258	
421.88	949.23	15	90-132	17499	15792	14613	13521	11291	10448	9521	9222	
4340	377.11	848.50	10	90-132	26348	23779	22002	20359	17001	15731	13845	13409
	431.72	971.37	10	90-132	23873	21544	19935	18446	15403	14253	12657	12258
	473.69	1065.80	10	90-132	23873	21544	19935	18446	15403	14253	12657	12258
	539.65	1214.21	10	90-132	23873	21544	19935	18446	15403	14253	12657	12258
	606.81	1365.30	10	90-132	23873	21544	19935	18446	15403	14253	12657	12258
	758.51	1706.60	10	90-132	27324	24659	22817	21112	17630	16313	14252	13803
	805.15	1811.58	10	90-132	26348	23779	22002	20359	17001	15731	13845	13409
	895.05	2013.88	10	90-132	26348	23779	22002	20359	17001	15731	13845	13409
	982.07	2209.65	10	90-132	27324	24659	22817	21112	17630	16313	14252	13803
	1098.92	2472.58	10	90-132	26348	23779	22002	20359	17001	15731	13845	13409
	1193.40	2685.15	10	90-132	26348	23779	22002	20359	17001	15731	13845	13409
	1258.06	2830.65	10	90-132	26348	23779	22002	20359	17001	15731	13845	13409
	1366.20	3073.95	10	90-132	23873	21544	19935	18446	15403	14253	12657	12258
	1491.75	3356.44	10	90-132	26348	23779	22002	20359	17001	15731	13845	13409
	1864.71	4195.60	10	90-132	26348	23779	22002	20359	17001	15731	13845	13409
	2025.00	4556.25	10	90-132	17499	15792	14613	13521	11291	10448	9521	9222
	2134.71	4803.10	10	90-132	23873	21544	19935	18446	15403	14253	12657	12258
	2531.25	5695.31	10	90-132	17499	15792	14613	13521	11291	10448	9521	9222
	3164.10	7119.23	10	90-132	17499	15792	14613	13521	11291	10448	9521	9222

Model	Inline Ratio	BRX Ratio	Thermal Rating	Hollow I/P Frame	Continuous Rated torque at different life cycles n2.h = o/p speed (rpm) x life in hours								
					(Kw)	n2.h 10000	n2.h 25000	n2.h 50000	n2.h 100000	n2.h 500000	n2.h 1000000	n2.h 5000000	n2.h 10000000
1380	3.72	9.45	50	160-250	33527	30257	27997	25906	21633	20017	17417	16869	
	4.09	10.39	50	160-250	38132	34413	31842	29464	24604	22766	19934	19306	
	4.58	11.63	50	160-250	36811	33221	30739	28443	23752	21977	19387	18777	
	5.25	13.34	50	160-250	33391	30134	27883	25800	21545	19935	17745	17187	
	6.23	15.82	50	160-250	30371	27409	25362	23467	19597	18133	16324	15810	
	7.80	19.81	50	160-250	24540	22146	20492	18961	15834	14651	13387	12965	
2380	12.95	32.89	27.5	132-200	33527	30257	27997	25906	21633	20017	17417	16869	
	14.23	36.14	27.5	132-200	38132	34413	31842	29464	24604	22766	19934	19306	
	17.42	44.25	27.5	132-200	38132	34413	31842	29464	24604	22766	19934	19306	
	19.94	50.65	27.5	132-200	38132	34413	31842	29464	24604	22766	19934	19306	
	23.60	59.94	27.5	132-200	38132	34413	31842	29464	24604	22766	19934	19306	
	26.37	66.98	27.5	132-200	36811	33221	30739	28443	23752	21977	19387	18777	
	29.45	74.80	27.5	132-200	38132	34413	31842	29464	24604	22766	19934	19306	
	32.90	83.57	27.5	132-200	36811	33221	30739	28443	23752	21977	19387	18777	
	35.95	91.31	27.5	132-200	30371	27409	25362	23467	19597	18133	16324	15810	
	37.80	96.01	27.5	132-200	33391	30134	27883	25800	21545	19935	17745	17187	
	38.03	96.60	27.5	132-200	24540	22146	20492	18961	15834	14651	13387	12965	
	44.86	113.94	27.5	132-200	30371	27409	25362	23467	19597	18133	16324	15810	
	56.16	142.65	27.5	132-200	24540	22146	20492	18961	15834	14651	13387	12965	
	3380	57.22	128.75	17.5	132-180	33527	30257	27997	25906	21633	20017	17417	16869
		62.91	141.55	17.5	132-180	38132	34413	31842	29464	24604	22766	19934	19306
68.82		154.85	17.5	132-180	38132	34413	31842	29464	24604	22766	19934	19306	
78.76		177.21	17.5	132-180	38132	34413	31842	29464	24604	22766	19934	19306	
85.40		192.15	17.5	132-180	38132	34413	31842	29464	24604	22766	19934	19306	
94.93		213.59	17.5	132-180	36811	33221	30739	28443	23752	21977	19387	18777	
100.89		227.00	17.5	132-180	38132	34413	31842	29464	24604	22766	19934	19306	
106.75		240.19	17.5	132-180	38132	34413	31842	29464	24604	22766	19934	19306	
119.41		268.67	17.5	132-180	38132	34413	31842	29464	24604	22766	19934	19306	
130.16		292.86	17.5	132-180	38132	34413	31842	29464	24604	22766	19934	19306	
136.08		306.18	17.5	132-180	33391	30134	27883	25800	21545	19935	17745	17187	
141.60		318.60	17.5	132-180	38132	34413	31842	29464	24604	22766	19934	19306	
149.01		335.27	17.5	132-180	38132	34413	31842	29464	24604	22766	19934	19306	
158.21		355.97	17.5	132-180	36811	33221	30739	28443	23752	21977	19387	18777	
166.49		374.60	17.5	132-180	36811	33221	30739	28443	23752	21977	19387	18777	
176.69		397.55	17.5	132-180	38132	34413	31842	29464	24604	22766	19934	19306	
181.89		409.25	17.5	132-180	30371	27409	25362	23467	19597	18133	16324	15810	
191.27		430.36	17.5	132-180	33391	30134	27883	25800	21545	19935	17745	17187	
197.42		444.20	17.5	132-180	36811	33221	30739	28443	23752	21977	19387	18777	
215.68		485.28	17.5	132-180	30371	27409	25362	23467	19597	18133	16324	15810	
220.86		496.94	17.5	132-180	38132	34413	31842	29464	24604	22766	19934	19306	
226.97		510.68	17.5	132-180	30371	27409	25362	23467	19597	18133	16324	15810	
246.78		555.26	17.5	132-180	36811	33221	30739	28443	23752	21977	19387	18777	
269.14		605.57	17.5	132-180	30371	27409	25362	23467	19597	18133	16324	15810	
283.50		637.88	17.5	132-180	33391	30134	27883	25800	21545	19935	17745	17187	
284.17		639.38	17.5	132-180	24540	22146	20492	18961	15834	14651	13387	12965	
336.42		756.95	17.5	132-180	30371	27409	25362	23467	19597	18133	16324	15810	
421.20		947.70	17.5	132-180	24540	22146	20492	18961	15834	14651	13387	12965	
4380	376.22	846.49	15	100-132	33527	30257	27997	25906	21633	20017	17417	16869	
	488.10	1098.23	15	100-132	38132	34413	31842	29464	24604	22766	19934	19306	
	535.55	1205.00	15	100-132	38132	34413	31842	29464	24604	22766	19934	19306	
	581.60	1308.60	15	100-132	38132	34413	31842	29464	24604	22766	19934	19306	
	625.72	1407.87	15	100-132	36811	33221	30739	28443	23752	21977	19387	18777	
	686.55	1544.75	15	100-132	36811	33221	30739	28443	23752	21977	19387	18777	
	728.77	1639.73	15	100-132	36811	33221	30739	28443	23752	21977	19387	18777	
	786.99	1770.72	15	100-132	33391	30134	27883	25800	21545	19935	17745	17187	
	850.50	1913.63	15	100-132	33391	30134	27883	25800	21545	19935	17745	17187	
	880.63	1981.42	15	100-132	33391	30134	27883	25800	21545	19935	17745	17187	
	931.29	2095.41	15	100-132	38132	34413	31842	29464	24604	22766	19934	19306	
	1016.88	2287.97	15	100-132	38132	34413	31842	29464	24604	22766	19934	19306	
	1164.12	2619.26	15	100-132	38132	34413	31842	29464	24604	22766	19934	19306	
	1255.50	2824.88	15	100-132	33527	30257	27997	25906	21633	20017	17417	16869	
	1380.38	3105.84	15	100-132	38132	34413	31842	29464	24604	22766	19934	19306	
	1494.28	3362.13	15	100-132	38132	34413	31842	29464	24604	22766	19934	19306	
	1545.75	3477.94	15	100-132	38132	34413	31842	29464	24604	22766	19934	19306	
	1771.88	3986.72	15	100-132	38132	34413	31842	29464	24604	22766	19934	19306	
	1932.19	4347.42	15	100-132	38132	34413	31842	29464	24604	22766	19934	19306	
	2102.63	4730.91	15	100-132	30371	27409	25362	23467	19597	18133	16324	15810	
	2214.84	4983.40	15	100-132	38132	34413	31842	29464	24604	22766	19934	19306	
	2523.15	5677.09	15	100-132	30371	27409	25362	23467	19597	18133	16324	15810	

Model	Inline Ratio	BRX Ratio	Thermal Rating	Hollow I/P Frame	Continuous Rated torque at different life cycles n2.h = o/p speed (rpm) x life in hours							
					(Kw)	n2.h 10000	n2.h 25000	n2.h 50000	n2.h 100000	n2.h 500000	n2.h 1000000	n2.h 5000000
1415	3.60	9.14	55	160-250	52527	47404	43863	40587	33892	31360	27229	26371
	3.95	10.03	55	160-250	59686	53864	49841	46118	38511	35635	31132	30152
	4.42	11.23	55	160-250	57562	51947	48067	44477	37141	34366	30246	29293
	5.06	12.85	55	160-250	52158	47071	43555	40301	33654	31140	27652	26782
	6.00	15.24	55	160-250	47387	42765	39571	36615	30576	28292	25406	24606
	7.50	19.05	55	160-250	38242	34512	31934	29549	24675	22832	20807	20152
2415	12.96	32.92	30	160-200	52527	47404	43863	40587	33892	31360	27229	26371
	14.22	36.12	30	160-200	59686	53864	49841	46118	38511	35635	31132	30152
	15.60	39.62	30	160-200	59686	53864	49841	46118	38511	35635	31132	30152
	17.46	44.35	30	160-200	59686	53864	49841	46118	38511	35635	31132	30152
	19.54	49.63	30	160-200	57562	51947	48067	44477	37141	34366	30246	29293
	21.60	54.86	30	160-200	52527	47404	43863	40587	33892	31360	27229	26371
	22.37	56.82	30	160-200	57562	51947	48067	44477	37141	34366	30246	29293
	23.70	60.20	30	160-200	59686	53864	49841	46118	38511	35635	31132	30152
	25.60	65.02	30	160-200	47387	42765	39571	36615	30576	28292	25406	24606
	27.00	68.58	30	160-200	52527	47404	43863	40587	33892	31360	27229	26371
	29.63	75.26	30	160-200	59686	53864	49841	46118	38511	35635	31132	30152
	30.36	77.11	30	160-200	47387	42765	39571	36615	30576	28292	25406	24606
	33.15	84.20	30	160-200	57562	51947	48067	44477	37141	34366	30246	29293
	36.00	91.44	30	160-200	47387	42765	39571	36615	30576	28292	25406	24606
	37.95	96.39	30	160-200	47387	42765	39571	36615	30576	28292	25406	24606
	45.00	114.30	30	160-200	47387	42765	39571	36615	30576	28292	25406	24606
	56.25	142.88	30	160-200	38242	34512	31934	29549	24675	22832	20807	20152
3415	51.19	117.74	20	132-180	59686	53864	49841	46118	38511	35635	31132	30152
	56.17	129.19	20	132-180	59686	53864	49841	46118	38511	35635	31132	30152
	61.63	141.75	20	132-180	59686	53864	49841	46118	38511	35635	31132	30152
	68.96	158.61	20	132-180	59686	53864	49841	46118	38511	35635	31132	30152
	71.95	165.49	20	132-180	59686	53864	49841	46118	38511	35635	31132	30152
	77.17	177.49	20	132-180	59686	53864	49841	46118	38511	35635	31132	30152
	80.51	185.17	20	132-180	57562	51947	48067	44477	37141	34366	30246	29293
	85.32	196.24	20	132-180	59686	53864	49841	46118	38511	35635	31132	30152
	93.62	215.33	20	132-180	59686	53864	49841	46118	38511	35635	31132	30152
	101.13	232.60	20	132-180	59686	53864	49841	46118	38511	35635	31132	30152
	106.65	245.30	20	132-180	59686	53864	49841	46118	38511	35635	31132	30152
	113.17	260.29	20	132-180	57562	51947	48067	44477	37141	34366	30246	29293
	119.34	274.48	20	132-180	57562	51947	48067	44477	37141	34366	30246	29293
	129.55	297.97	20	132-180	52158	47071	43555	40301	33654	31140	27652	26782
	134.19	308.64	20	132-180	57562	51947	48067	44477	37141	34366	30246	29293
	142.20	327.06	20	132-180	59686	53864	49841	46118	38511	35635	31132	30152
	149.90	344.77	20	132-180	59686	53864	49841	46118	38511	35635	31132	30152
	153.62	353.33	20	132-180	52158	47071	43555	40301	33654	31140	27652	26782
	162.00	372.60	20	132-180	47387	42765	39571	36615	30576	28292	25406	24606
	177.75	408.83	20	132-180	59686	53864	49841	46118	38511	35635	31132	30152
	182.16	418.97	20	132-180	52158	47071	43555	40301	33654	31140	27652	26782
	198.90	457.47	20	132-180	57562	51947	48067	44477	37141	34366	30246	29293
	202.50	465.75	20	132-180	47387	42765	39571	36615	30576	28292	25406	24606
222.19	511.04	20	132-180	59686	53864	49841	46118	38511	35635	31132	30152	
248.63	571.85	20	132-180	57562	51947	48067	44477	37141	34366	30246	29293	
270.00	621.00	20	132-180	52158	47071	43555	40301	33654	31140	27652	26782	
284.63	654.65	20	132-180	52158	47071	43555	40301	33654	31140	27652	26782	
337.50	776.25	20	132-180	52158	47071	43555	40301	33654	31140	27652	26782	
421.88	970.32	20	132-180	38242	34512	31934	29549	24675	22832	20807	20152	
4415	377.11	848.50	17.5	100-132	57562	51947	48067	44477	37141	34366	30246	29293
	431.72	971.37	17.5	100-132	52158	47071	43555	40301	33654	31140	27652	26782
	539.65	1214.21	17.5	100-132	52158	47071	43555	40301	33654	31140	27652	26782
	603.86	1358.69	17.5	100-132	52158	47071	43555	40301	33654	31140	27652	26782
	679.00	1527.75	17.5	100-132	57562	51947	48067	44477	37141	34366	30246	29293
	716.04	1611.09	17.5	100-132	57562	51947	48067	44477	37141	34366	30246	29293
	785.66	1767.72	17.5	100-132	59686	53864	49841	46118	38511	35635	31132	30152
	805.15	1811.58	17.5	100-132	57562	51947	48067	44477	37141	34366	30246	29293
	879.14	1978.06	17.5	100-132	57562	51947	48067	44477	37141	34366	30246	29293
	982.07	2209.65	17.5	100-132	59686	53864	49841	46118	38511	35635	31132	30152
	1098.92	2472.58	17.5	100-132	57562	51947	48067	44477	37141	34366	30246	29293
	1124.27	2529.60	17.5	100-132	59686	53864	49841	46118	38511	35635	31132	30152
	1258.04	2830.60	17.5	100-132	57562	51947	48067	44477	37141	34366	30246	29293
	1333.13	2999.53	17.5	100-132	59686	53864	49841	46118	38511	35635	31132	30152
	1491.75	3356.44	17.5	100-132	57562	51947	48067	44477	37141	34366	30246	29293
	1864.69	4195.55	17.5	100-132	57562	51947	48067	44477	37141	34366	30246	29293
	2025.00	4556.25	17.5	100-132	47387	42765	39571	36615	30576	28292	25406	24606
	2134.69	4803.05	17.5	100-132	52158	47071	43555	40301	33654	31140	27652	26782
	2531.25	5695.31	17.5	100-132	47387	42765	39571	36615	30576	28292	25406	24606
	3164.06	7119.14	17.5	100-132	38242	34512	31934	29549	24675	22832	20807	20152



Model	Ratio	Thermal Rating (Kw)	Hollow I/P Frame	Continuous Rated torque at different life cycles n2.h = o/p speed (rpm) x life in hours								
				n2.h 10000	n2.h 25000	n2.h 50000	n2.h 100000	n2.h 500000	n2.h 1000000	n2.h 5000000	n2.h 10000000	
1460	3.50	60	160-250	77795	70207	64963	60111	50196	46446	38785	35888	
	3.85	60	160-250	91609	82674	76499	70784	59109	54694	45672	42261	
	4.00	60	160-250	109440	98766	91389	84562	70614	65340	54562	50487	
	4.33	60	160-250	90301	81493	75406	69744	58265	53913	45020	41657	
	4.75	60	160-250	96000	86637	80166	74178	61942	57316	47862	44287	
	5.00	60	160-250	85431	77099	71340	66011	55123	51005	42592	39411	
	6.00	60	160-250	70964	64043	59259	54833	45788	42368	35380	32737	
2460	13.02	40	160-200	77795	70207	64963	60111	50196	46446	38785	35888	
	14.88	40	160-200	109440	98766	91389	84562	70614	65340	54562	50487	
	16.36	40	160-200	109440	98766	91389	84562	70614	65340	54562	50487	
	17.67	40	160-200	96000	86637	80166	74178	61942	57316	47862	44287	
	18.32	40	160-200	109440	98766	91389	84562	70614	65340	54562	50487	
	19.43	40	160-200	96000	86637	80166	74178	61942	57316	47862	44287	
	21.00	40	160-200	109440	98766	91389	84562	70614	65340	54562	50487	
	22.73	40	160-200	90301	81493	75406	69744	58265	53913	45020	41657	
	23.99	40	160-200	91609	82674	76499	70784	59109	54694	45672	42261	
	24.92	40	160-200	109440	98766	91389	84562	70614	65340	54562	50487	
	26.98	40	160-200	109440	98766	91389	84562	70614	65340	54562	50487	
	29.59	40	160-200	96000	86637	80166	74178	61942	57316	47862	44287	
	3460	46.87	30	132-180	77795	70207	64963	60111	50196	46446	38785	35888
		58.90	30	132-180	109440	98766	91389	84562	70614	65340	54562	50487
75.60		30	132-180	109440	98766	91389	84562	70614	65340	54562	50487	
82.44		30	132-180	109440	98766	91389	84562	70614	65340	54562	50487	
90.46		30	132-180	109440	98766	91389	84562	70614	65340	54562	50487	
98.16		30	132-180	109440	98766	91389	84562	70614	65340	54562	50487	
102.28		30	132-180	91609	82674	76499	70784	59109	54694	45672	42261	
109.92		30	132-180	109440	98766	91389	84562	70614	65340	54562	50487	
122.70		30	132-180	109440	98766	91389	84562	70614	65340	54562	50487	
126.00		30	132-180	109440	98766	91389	84562	70614	65340	54562	50487	
137.40		30	132-180	109440	98766	91389	84562	70614	65340	54562	50487	
143.91		30	132-180	91609	82674	76499	70784	59109	54694	45672	42261	
157.50		30	132-180	109440	98766	91389	84562	70614	65340	54562	50487	
171.75		30	132-180	109440	98766	91389	84562	70614	65340	54562	50487	
177.56		30	132-180	109440	98766	91389	84562	70614	65340	54562	50487	
186.90		30	132-180	109440	98766	91389	84562	70614	65340	54562	50487	
202.32		30	132-180	109440	98766	91389	84562	70614	65340	54562	50487	
280.35		30	132-180	70964	64043	59259	54833	45788	42368	35380	32737	
292.50		30	132-180	85431	77099	71340	66011	55123	51005	42592	39411	
351.00		30	132-180	70964	64043	59259	54833	45788	42368	35380	32737	
4460	361.30	25	100-160	109440	98766	91389	84562	70614	65340	54562	50487	
	443.50	25	100-160	109440	98766	91389	84562	70614	65340	54562	50487	
	484.67	25	100-160	109440	98766	91389	84562	70614	65340	54562	50487	
	498.08	25	100-160	109440	98766	91389	84562	70614	65340	54562	50487	
	568.46	25	100-160	91609	82674	76499	70784	59109	54694	45672	42261	
	588.96	25	100-160	109440	98766	91389	84562	70614	65340	54562	50487	
	607.31	25	100-160	109440	98766	91389	84562	70614	65340	54562	50487	
	695.24	25	100-160	109440	98766	91389	84562	70614	65340	54562	50487	
	759.14	25	100-160	109440	98766	91389	84562	70614	65340	54562	50487	
	869.06	25	100-160	109440	98766	91389	84562	70614	65340	54562	50487	
	898.43	25	100-160	96000	86637	80166	74178	61942	57316	47862	44287	
	920.25	25	100-160	109440	98766	91389	84562	70614	65340	54562	50487	
	980.99	25	100-160	109440	98766	91389	84562	70614	65340	54562	50487	
	1030.50	25	100-160	109440	98766	91389	84562	70614	65340	54562	50487	
	1181.25	25	100-160	109440	98766	91389	84562	70614	65340	54562	50487	
	1213.92	25	100-160	96000	86637	80166	74178	61942	57316	47862	44287	
	1288.13	25	100-160	109440	98766	91389	84562	70614	65340	54562	50487	
	1517.39	25	100-160	109440	98766	91389	84562	70614	65340	54562	50487	
	1664.58	25	100-160	96000	86637	80166	74178	61942	57316	47862	44287	
	2084.06	25	100-160	70964	64043	59259	54833	45368	42368	35380	32737	
	2102.36	25	100-160	70964	64043	59259	54833	45368	42368	35380	32737	
	2193.75	25	100-160	70964	64043	59259	54833	45368	42368	35380	32737	
	2632.50	25	100-160	70964	64043	59259	54833	45368	42368	35380	32737	

Model	Ratio	Thermal Rating (Kw)	Hollow I/P Frame	Continuous Rated torque at different life cycles n2.h = o/p speed (rpm) x life in hours							
				n2.h 10000	n2.h 25000	n2.h 50000	n2.h 100000	n2.h 500000	n2.h 1000000	n2.h 5000000	n2.h 10000000
1515	3.95	70		110455	99681	92236	85346	71269	65945	55068	50955
	4.42	70		138360	124865	115538	106908	89274	82606	68980	63828
	5.06	70		98206	88627	82007	75882	63365	58632	48961	45304
	6.00	70		82451	74409	68851	63708	53200	49226	41106	38036
2515	15.91	50	160-225	138360	124865	115538	106908	89274	82606	68980	63828
	17.46	50	160-225	138360	124865	115538	106908	89274	82606	68980	63828
	19.54	50	160-225	138360	124865	115538	106908	89274	82606	68980	63828
	22.37	50	160-225	138360	124865	115538	106908	89274	82606	68980	63828
	23.70	50	160-225	110455	99681	92236	85346	71269	65945	55068	50955
	26.52	50	160-225	138360	124865	115538	106908	89274	82606	68980	63828
	29.63	50	160-225	110455	99681	92236	85346	71269	65945	55068	50955
	33.15	50	160-225	138360	124865	115538	106908	89274	82606	68980	63828
	37.95	50	160-225	98206	88627	82007	75882	63365	58632	48961	45304
	45.00	50	160-225	82451	74409	68851	63708	53200	49226	41106	38036
3515	62.85	40	132-200	138360	124865	115538	106908	89274	82606	68980	63828
	70.33	40	132-200	138360	124865	115538	106908	89274	82606	68980	63828
	85.32	40	132-200	110455	99681	92236	85346	71269	65945	55068	50955
	88.34	40	132-200	138360	124865	115538	106908	89274	82606	68980	63828
	95.47	40	132-200	138360	124865	115538	106908	89274	82606	68980	63828
	106.65	40	132-200	110455	99681	92236	85346	71269	65945	55068	50955
	117.22	40	132-200	138360	124865	115538	106908	89274	82606	68980	63828
	134.19	40	132-200	138360	124865	115538	106908	89274	82606	68980	63828
	159.19	40	132-200	138360	124865	115538	106908	89274	82606	68980	63828
	167.74	40	132-200	138360	124865	115538	106908	89274	82606	68980	63828
	248.63	40	132-200	138360	124865	115538	106908	89274	82606	68980	63828
	270.00	40	132-200	82451	74409	68851	63708	53200	49226	41106	38036
	284.63	40	132-200	82451	74409	68851	63708	53200	49226	41106	38036
	337.50	40	132-200	82451	74409	68851	63708	53200	49226	41106	38036
4515	364.08	30	112-180	110455	99681	92236	85346	71269	65945	55068	50955
	463.01	30	112-180	138360	124865	115538	106908	89274	82606	68980	63828
	483.09	30	112-180	138360	124865	115538	106908	89274	82606	68980	63828
	511.92	30	112-180	110455	99681	92236	85346	71269	65945	55068	50955
	530.06	30	112-180	138360	124865	115538	106908	89274	82606	68980	63828
	561.69	30	112-180	110455	99681	92236	85346	71269	65945	55068	50955
	572.83	30	112-180	138360	124865	115538	106908	89274	82606	68980	63828
	593.13	30	112-180	138360	124865	115538	106908	89274	82606	68980	63828
	628.52	30	112-180	138360	124865	115538	106908	89274	82606	68980	63828
	662.57	30	112-180	138360	124865	115538	106908	89274	82606	68980	63828
	703.31	30	112-180	138360	124865	115538	106908	89274	82606	68980	63828
	982.07	30	112-180	138360	124865	115538	106908	89274	82606	68980	63828
	1006.43	30	112-180	138360	124865	115538	106908	89274	82606	68980	63828
	1193.40	30	112-180	138360	124865	115538	106908	89274	82606	68980	63828
	1258.04	30	112-180	138360	124865	115538	106908	89274	82606	68980	63828
	1491.75	30	112-180	138360	124865	115538	106908	89274	82606	68980	63828
	1864.69	30	112-180	138360	124865	115538	106908	89274	82606	68980	63828
	2025.00	30	112-180	82451	74409	68851	63708	53200	49226	41106	38036
	2134.69	30	112-180	82451	74409	68851	63708	53200	49226	41106	38036
	2531.25	30	112-180	82451	74409	68851	63708	53200	49226	41106	38036

Model	Ratio	Thermal Rating (Kw)	Hollow I/P Frame	Continuous Rated torque at different life cycles n2.h = o/p speed (rpm) x life in hours							
				n2.h 10000	n2.h 25000	n2.h 50000	n2.h 100000	n2.h 500000	n2.h 1000000	n2.h 5000000	n2.h 10000000
1615	4.09	80		236330	213280	197349	182608	152488	141097	117824	109023
	4.40	80		269307	243040	224886	208088	173765	160786	134265	124236
	4.57	80		222861	201124	186101	172200	143797	133056	111109	102810
	5.25	80		206400	186269	172356	159481	133176	123228	102902	95216
	6.23	80		175112	158032	146228	135305	112988	104548	87303	80782
2615	14.72	60	132-250	236330	213280	197349	182608	152488	141097	117824	109023
	16.16	60	132-250	269307	243040	224886	208088	173765	160786	134265	124236
	18.05	60	132-250	269307	243040	224886	208088	173765	160786	134265	124236
	19.62	60	132-250	269307	243040	224886	208088	173765	160786	134265	124236
	20.70	60	132-250	236330	213280	197349	182608	152488	141097	117824	109023
	22.74	60	132-250	269307	243040	224886	208088	173765	160786	134265	124236
	24.54	60	132-250	236330	213280	197349	182608	152488	141097	117824	109023
	26.64	60	132-250	269307	243040	224886	208088	173765	160786	134265	124236
	30.68	60	132-250	236330	213280	197349	182608	152488	141097	117824	109023
	31.50	60	132-250	269307	243040	224886	208088	173765	160786	134265	124236
	34.27	60	132-250	222861	201124	186101	172200	143797	133056	111109	102810
	37.38	60	132-250	269307	243040	224886	208088	173765	160786	134265	124236
	39.38	60	132-250	269307	243040	224886	208088	173765	160786	134265	124236
	46.73	60	132-250	175112	158032	146228	135305	112988	104548	87303	80782
3615	53.01	50	132-250	236330	213280	197349	182608	152488	141097	117824	109023
	70.65	50	132-250	269307	243040	224886	208088	173765	160786	134265	124236
	77.52	50	132-250	269307	243040	224886	208088	173765	160786	134265	124236
	80.88	50	132-250	269307	243040	224886	208088	173765	160786	134265	124236
	86.74	50	132-250	269307	243040	224886	208088	173765	160786	134265	124236
	91.73	50	132-250	236330	213280	197349	182608	152488	141097	117824	109023
	99.30	50	132-250	269307	243040	224886	208088	173765	160786	134265	124236
	105.23	50	132-250	269307	243040	224886	208088	173765	160786	134265	124236
	117.75	50	132-250	269307	243040	224886	208088	173765	160786	134265	124236
	124.17	50	132-250	236330	213280	197349	182608	152488	141097	117824	109023
	134.80	50	132-250	269307	243040	224886	208088	173765	160786	134265	124236
	165.97	50	132-250	269307	243040	224886	208088	173765	160786	134265	124236
	173.41	50	132-250	269307	243040	224886	208088	173765	160786	134265	124236
	191.11	50	132-250	236330	213280	197349	182608	152488	141097	117824	109023
	280.35	50	132-250	175112	158032	146228	135305	112988	104548	87303	80782
	295.31	50	132-250	175112	158032	146228	135305	112988	104548	87303	80782
	350.44	50	132-250	175112	158032	146228	135305	112988	104548	87303	80782
4615	312.27	40	132-200	269307	243040	224886	208088	173765	160786	134265	124236
	392.24	40	132-200	269307	243040	224886	208088	173765	160786	134265	124236
	411.91	40	132-200	269307	243040	224886	208088	173765	160786	134265	124236
	464.16	40	132-200	236330	213280	197349	182608	152488	141097	117824	109023
	479.42	40	132-200	269307	243040	224886	208088	173765	160786	134265	124236
	540.40	40	132-200	269307	243040	224886	208088	173765	160786	134265	124236
	606.59	40	132-200	269307	243040	224886	208088	173765	160786	134265	124236
	624.26	40	132-200	222861	201124	186101	172200	143797	133056	111109	102810
	687.98	40	132-200	236330	213280	197349	182608	152488	141097	117824	109023
	708.23	40	132-200	269307	243040	224886	208088	173765	160786	134265	124236
	744.76	40	132-200	269307	243040	224886	208088	173765	160786	134265	124236
	808.79	40	132-200	269307	243040	224886	208088	173765	160786	134265	124236
	1010.99	40	132-200	269307	243040	224886	208088	173765	160786	134265	124236
	1146.63	40	132-200	236330	213280	197349	182608	152488	141097	117824	109023
	1300.55	40	132-200	269307	243040	224886	208088	173765	160786	134265	124236
	1433.29	40	132-200	236330	213280	197349	182608	152488	141097	117824	109023
	1771.88	40	132-200	206400	186269	172356	159481	133176	123228	102902	95216
	1856.25	40	132-200	175112	158032	146228	135305	112988	104548	87303	80782
	1927.97	40	132-200	175112	158032	146228	135305	112988	104548	87303	80782
	2102.63	40	132-200	175112	158032	146228	135305	112988	104548	87303	80782
	2214.84	40	132-200	206400	186269	172356	159481	133176	123228	102902	95216
2628.28	40	132-200	175112	158032	146228	135305	112988	104548	87303	80782	

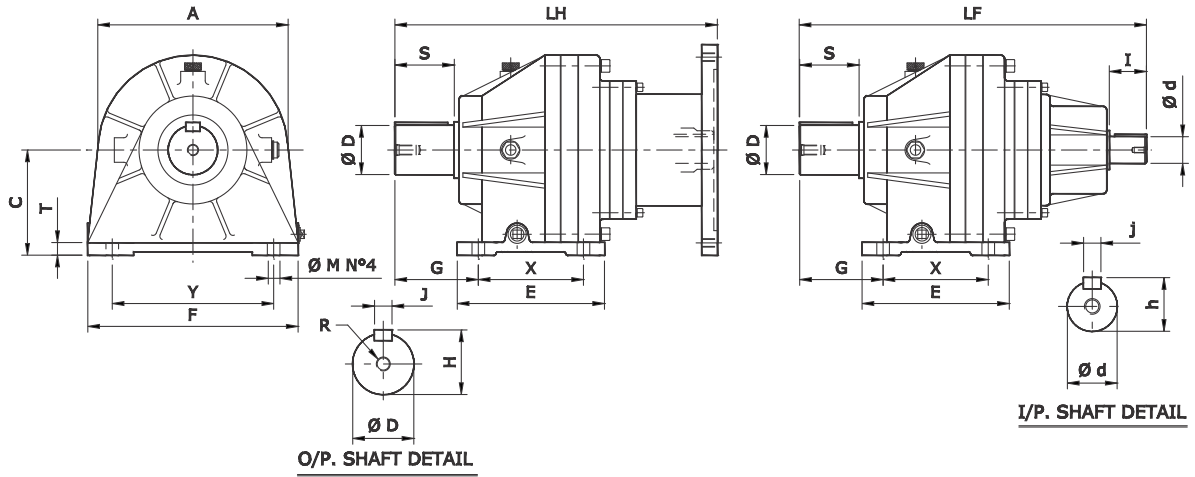
Model	Ratio	Thermal Rating (Kw)	Hollow I/P Frame	Continuous Rated torque at different life cycles n2.h = o/p speed (rpm) x life in hours								
				n2.h 10000	n2.h 25000	n2.h 50000	n2.h 100000	n2.h 500000	n2.h 1000000	n2.h 5000000	n2.h 10000000	
1670	3.95	90		333209	300710	278248	257464	214997	198938	166124	153715	
	4.25	90		369837	333765	308834	285766	238630	228630	184385	170612	
	4.42	90		313396	282829	261703	242155	202213	187109	156246	144575	
	5.06	90		395075	356542	329910	302567	254915	235874	196968	182255	
	6.00	90		248842	224572	207797	192276	160561	148568	124062	114795	
2670	15.80	70	180-250	333209	300710	278248	257476	214997	198938	166124	153715	
	17.00	70	180-250	369837	333765	308834	285766	238630	228630	184385	170612	
	18.40	70	180-250	369837	333765	308834	285766	238630	228630	184385	170612	
	19.48	70	180-250	395075	356542	329910	302567	254915	235874	196968	182255	
	21.91	70	180-250	395075	356542	329910	302567	254915	235874	196968	182255	
	23.70	70	180-250	333209	300710	278248	257476	214997	198938	166124	153715	
	24.04	70	180-250	395075	356542	329910	302567	254915	235874	196968	182255	
	25.50	70	180-250	369837	333765	308834	285766	238630	228630	184385	170612	
	26.52	70	180-250	395075	356542	329910	302567	254915	235874	196968	182255	
	30.36	70	180-250	395075	356542	329910	302567	254915	235874	196968	182255	
	36.00	70	180-250	248842	224572	207797	192276	160561	148568	124062	114795	
	3670	58.78	60	180-250	333209	300710	278248	257476	214997	198938	166124	153715
		63.24	60	180-250	369837	333765	308834	285766	238630	228630	184385	170612
72.47		60	180-250	395075	356542	329910	302567	254915	235874	196968	182255	
81.50		60	180-250	395075	356542	329910	302567	254915	235874	196968	182255	
89.22		60	180-250	395075	356542	329910	302567	254915	235874	196968	182255	
98.30		60	180-250	395075	356542	329910	302567	254915	235874	196968	182255	
102.28		60	180-250	395075	356542	329910	302567	254915	235874	196968	182255	
108.55		60	180-250	333209	300710	278248	257476	214997	198938	166124	153715	
115.03		60	180-250	395075	356542	329910	302567	254915	235874	196968	182255	
121.46		60	180-250	369837	333765	308834	285766	238630	228630	184385	170612	
124.17		60	180-250	395075	356542	329910	302567	254915	235874	196968	182255	
133.88		60	180-250	369837	333765	308834	285766	238630	228630	184385	170612	
136.50		60	180-250	395075	356542	329910	302567	254915	235874	196968	182255	
139.05		60	180-250	395075	356542	329910	302567	254915	235874	196968	182255	
149.74		60	180-250	395075	356542	329910	302567	254915	235874	196968	182255	
189.14		60	180-250	395075	356542	329910	302567	254915	235874	196968	182255	
280.80		60	180-250	248842	224572	207797	192276	160561	148568	124062	114795	
4670		352.43	50	160-200	395075	356542	329910	302567	254915	235874	196968	182255
		379.44	50	160-200	369837	333765	308834	285766	238630	228630	184385	170612
	390.77	50	160-200	333209	300710	278248	257476	214997	198938	166124	153715	
	414.10	50	160-200	395075	356542	329910	302567	254915	235874	196968	182255	
	428.76	50	160-200	333209	300710	278248	257476	214997	198938	166124	153715	
	437.26	50	160-200	369837	333765	308834	285766	238630	228630	184385	170612	
	474.30	50	160-200	369837	333765	308834	285766	238630	228630	184385	170612	
	479.77	50	160-200	333209	300710	278248	257476	214997	198938	166124	153715	
	500.58	50	160-200	395075	356542	329910	302567	254915	235874	196968	182255	
	536.85	50	160-200	369837	333765	308834	285766	238630	228630	184385	170612	
	613.65	50	160-200	395075	356542	329910	302567	254915	235874	196968	182255	
	672.08	50	160-200	395075	356542	329910	302567	254915	235874	196968	182255	
	703.59	50	160-200	395075	356542	329910	302567	254915	235874	196968	182255	
	730.27	50	160-200	313396	282829	261703	242155	202213	187109	156246	144575	
	757.67	50	160-200	395075	356542	329910	302567	254915	235874	196968	182255	
	814.10	50	160-200	333209	300710	278248	257476	214997	198938	166124	153715	
	834.29	50	160-200	395075	356542	329910	302567	254915	235874	196968	182255	
	862.70	50	160-200	395075	356542	329910	302567	254915	235874	196968	182255	
	898.43	50	160-200	395075	356542	329910	302567	254915	235874	196968	182255	
	910.95	50	160-200	313396	282829	261703	242155	202213	187109	156246	144575	
	957.06	50	160-200	395075	356542	329910	302567	254915	235874	196968	182255	
	991.32	50	160-200	369837	333765	308834	285766	238630	228630	184385	170612	
	1418.57	50	160-200	395075	356542	329910	302567	254915	235874	196968	182255	
	1684.80	50	160-200	248842	224572	207797	192276	160561	148568	124062	114795	
	2106.00	50	160-200	248842	224572	207797	192276	160561	148568	124062	114795	

Model	Ratio	Thermal Rating (Kw)	Hollow I/P Frame	Continuous Rated torque at different life cycles n2.h = o/p speed (rpm) x life in hours							
				n2.h 10000	n2.h 25000	n2.h 50000	n2.h 100000	n2.h 500000	n2.h 1000000	n2.h 5000000	n2.h 10000000
1725	4.09	100		386022	348372	322350	298272	249074	230469	192454	178079
	4.40	100		486484	439035	406241	375897	313895	290448	242541	224424
	4.57	100		367355	331525	306762	283848	237029	219324	183148	169467
	5.25	100		340551	307336	284379	263137	219734	203321	169784	157102
	6.23	100		286092	258188	238903	221058	184596	170860	142633	131979
2725	16.16	90		386022	348372	322350	298272	249074	230469	192454	178079
	17.38	90		486484	439035	406241	375897	313895	290448	242541	224424
	18.08	90		386022	348372	322350	298272	249074	230469	192454	178079
	19.45	90		486484	439035	406241	375897	313895	290448	242541	224424
	20.70	90		386022	348372	322350	298272	249074	230469	192454	178079
	22.26	90		486484	439035	406241	375897	313895	290448	242541	224424
	23.12	90		367355	331525	306762	283848	237029	219324	183148	169467
	24.54	90		386022	348372	322350	298272	249074	230469	192454	178079
	26.40	90		486484	439035	406241	375897	313895	290448	242541	224424
	27.42	90		367355	331525	306762	283848	237029	219324	183148	169467
	31.52	90		286092	258188	238903	221058	184596	170860	142633	131979
	37.38	90		286092	258188	238903	221058	184596	170860	142633	131979
	3725	58.16	75	180-250	386022	348372	322350	298272	249074	230469	192454
70.01		75	180-250	486484	439035	406241	375897	313895	290448	242541	224424
80.15		75	180-250	486484	439035	406241	375897	313895	290448	242541	224424
95.04		75	180-250	486484	439035	406241	375897	313895	290448	242541	224424
108.31		75	180-250	367355	331525	306762	283848	237029	219324	183148	169467
112.66		75	180-250	486484	439035	406241	375897	313895	290448	242541	224424
133.58		75	180-250	486484	439035	406241	375897	313895	290448	242541	224424
138.75		75	180-250	367355	331525	306762	283848	237029	219324	183148	169467
145.86		75	180-250	486484	439035	406241	375897	313895	290448	242541	224424
155.22		75	180-250	386022	348372	322350	298272	249074	230469	192454	178079
158.40		75	180-250	486484	439035	406241	375897	313895	290448	242541	224424
166.98		75	180-250	486484	439035	406241	375897	313895	290448	242541	224424
184.05		75	180-250	386022	348372	322350	298272	249074	230469	192454	178079
198.00		75	180-250	486484	439035	406241	375897	313895	290448	242541	224424
224.28		75	180-250	286092	258188	238903	221058	184596	170860	142633	131979
280.35	75	180-250	286092	258188	238903	221058	184596	170860	142633	131979	
4725	252.05	60	160-250	486484	439035	406241	375897	313895	290448	242541	224424
	316.59	60	160-250	486484	439035	406241	375897	313895	290448	242541	224424
	342.14	60	160-250	486484	439035	406241	375897	313895	290448	242541	224424
	354.26	60	160-250	486484	439035	406241	375897	313895	290448	242541	224424
	375.41	60	160-250	486484	439035	406241	375897	313895	290448	242541	224424
	405.56	60	160-250	486484	439035	406241	375897	313895	290448	242541	224424
	478.73	60	160-250	367355	331525	306762	283848	237029	219324	183148	169467
	499.48	60	160-250	367355	331525	306762	283848	237029	219324	183148	169467
	525.10	60	160-250	486484	439035	406241	375897	313895	290448	242541	224424
	570.24	60	160-250	486484	439035	406241	375897	313895	290448	242541	224424
	601.13	60	160-250	486484	439035	406241	375897	313895	290448	242541	224424
	613.10	60	160-250	386022	348372	322350	298272	249074	230469	192454	178079
	624.35	60	160-250	367355	331525	306762	283848	237029	219324	183148	169467
	686.05	60	160-250	386022	348372	322350	298272	249074	230469	192454	178079
	712.80	60	160-250	486484	439035	406241	375897	313895	290448	242541	224424
	766.57	60	160-250	367355	331525	306762	283848	237029	219324	183148	169467
	782.10	60	160-250	486484	439035	406241	375897	313895	290448	242541	224424
	877.56	60	160-250	367355	331525	306762	283848	237029	219324	183148	169467
	1001.88	60	160-250	486484	439035	406241	375897	313895	290448	242541	224424
	1040.59	60	160-250	367355	331525	306762	283848	237029	219324	183148	169467
	1093.95	60	160-250	486484	439035	406241	375897	313895	290448	242541	224424
	1164.12	60	160-250	486484	439035	406241	375897	313895	290448	242541	224424
	1188.00	60	160-250	486484	439035	406241	375897	313895	290448	242541	224424
	1239.15	60	160-250	286092	258188	238903	221058	184596	170860	142633	131979
	1418.57	60	160-250	286092	258188	238903	221058	184596	170860	142633	131979
1682.10	60	160-250	286092	258188	238903	221058	184596	170860	142633	131979	
2102.63	60	160-250	286092	258188	238903	221058	184596	170860	142633	131979	

Model	Ratio	Thermal Rating	Hollow I/P Frame	Continuous Rated torque at different life cycles n2.h = o/p speed (rpm) x life in hours								
				(Kw)	n2.h 10000	n2.h 25000	n2.h 50000	n2.h 100000	n2.h 500000	n2.h 1000000	n2.h 5000000	n2.h 10000000
1850	3.95	135		658191	593995	549626	508571	424685	392963	328146	303635	
	4.25	135		730591	659334	610084	564514	471400	436189	364242	337035	
	4.42	135		619122	558736	517001	478383	399477	369637	308668	285612	
	5.06	135		780576	704443	651824	603136	503652	466031	389162	360093	
	6.00	135		491734	443774	410626	379954	317282	293583	245158	226846	
2850	16.16	125		658191	593995	549626	508571	424685	392963	328146	303635	
	17.38	125		730591	659334	610084	564514	471400	436189	364242	337035	
	18.87	125		730591	659334	610084	564514	471400	436189	364242	337035	
	19.42	125		730591	659334	610084	564514	471400	436189	364242	337035	
	20.70	125		780576	704443	651824	603136	503652	466031	389162	360093	
	22.26	125		780576	704443	651824	603136	503652	466031	389162	360093	
	23.12	125		780576	704443	651824	603136	503652	466031	389162	360093	
	26.57	125		780576	704443	651824	603136	503652	466031	389162	360093	
	27.54	125		619122	558736	517001	478383	399477	369637	308668	285612	
	31.52	125		780576	704443	651824	603136	503652	466031	389162	360093	
	37.38	125		491734	443774	410626	379954	317282	293583	245158	226846	
	3850	56.54	100	160-280	658191	593995	549626	508571	424685	392963	328146	303635
64.62		100	160-280	658191	593995	549626	508571	424685	392963	328146	303635	
76.72		100	160-280	730591	659334	610084	564514	471400	436189	364242	337035	
80.93		100	160-280	780576	704443	651824	603136	503652	466031	389162	360093	
84.10		100	160-280	730591	659334	610084	564514	471400	436189	364242	337035	
89.03		100	160-280	780576	704443	651824	603136	503652	466031	389162	360093	
97.28		100	160-280	780576	704443	651824	603136	503652	466031	389162	360093	
106.02		100	160-280	619122	558736	517001	478383	399477	369637	308668	285612	
113.57		100	160-280	730591	659334	610084	564514	471400	436189	364242	337035	
124.17		100	160-280	780576	704443	651824	603136	503652	466031	389162	360093	
135.22		100	160-280	780576	704443	651824	603136	503652	466031	389162	360093	
149.74		100	160-280	780576	704443	651824	603136	503652	466031	389162	360093	
159.39		100	160-280	780576	704443	651824	603136	503652	466031	389162	360093	
167.34		100	160-280	730591	659334	610084	564514	471400	436189	364242	337035	
199.24		100	160-280	780576	704443	651824	603136	503652	466031	389162	360093	
224.28		100	160-280	491734	443774	410626	379954	317282	293583	245158	226846	
280.35		100	160-280	491734	443774	410626	379954	317282	293583	245158	226846	
4850		268.21	80	160-280	780576	704443	651824	603136	503652	466031	389162	360093
		294.29	80	160-280	780576	704443	651824	603136	503652	466031	389162	360093
	301.08	80	160-280	780576	704443	651824	603136	503652	466031	389162	360093	
	329.31	80	160-280	780576	704443	651824	603136	503652	466031	389162	360093	
	344.09	80	160-280	780576	704443	651824	603136	503652	466031	389162	360093	
	355.90	80	160-280	730591	659334	610084	564514	471400	436189	364242	337035	
	364.13	80	160-280	780576	704443	651824	603136	503652	466031	389162	360093	
	376.99	80	160-280	780576	704443	651824	603136	503652	466031	389162	360093	
	385.18	80	160-280	658191	593995	549626	508571	424685	392963	328146	303635	
	397.87	80	160-280	780576	704443	651824	603136	503652	466031	389162	360093	
	436.96	80	160-280	730591	659334	610084	564514	471400	436189	364242	337035	
	467.40	80	160-280	780576	704443	651824	603136	503652	466031	389162	360093	
	494.11	80	160-280	780576	704443	651824	603136	503652	466031	389162	360093	
	510.72	80	160-280	780576	704443	651824	603136	503652	466031	389162	360093	
	523.94	80	160-280	730591	659334	610084	564514	471400	436189	364242	337035	
	558.78	80	160-280	780576	704443	651824	603136	503652	466031	389162	360093	
	576.26	80	160-280	780576	704443	651824	603136	503652	466031	389162	360093	
	685.80	80	160-280	780576	704443	651824	603136	503652	466031	389162	360093	
	741.45	80	160-280	730591	659334	610084	564514	471400	436189	364242	337035	
	782.10	80	160-280	730591	659334	610084	564514	471400	436189	364242	337035	
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	1196.33	80	160-280	780576	704443	651824	603136	503652	466031	389162	360093	
	1418.57	80	160-280	780576	704443	651824	603136	503652	466031	389162	360093	
	1773.21	80	160-280	491734	443774	410626	379954	317282	293583	245158	226846	
	2102.63	80	160-280	491734	443774	410626	379954	317282	293583	245158	226846	

Model	Ratio	Thermal Rating (Kw)	Hollow I/P Frame	Continuous Rated torque at different life cycles n2.h = o/p speed (rpm) x life in hours							
				n2.h 10000	n2.h 25000	n2.h 50000	n2.h 100000	n2.h 500000	n2.h 1000000	n2.h 5000000	n2.h 10000000
1950	4.09	180		1010199	911670	843572	780561	651812	603124	503642	466022
	4.40	180		1273310	1149119	1063285	983862	821580	760211	634819	587400
	4.57	180		961570	867784	802964	742986	620435	574091	479398	443589
	5.25	180		891615	804652	744548	688934	575298	532326	444521	411318
	6.23	180		749266	676187	625679	578944	483450	447339	373552	345650
2950	16.73	150		1010199	911670	843572	780561	651812	603124	503642	466022
	18.00	150		1273310	1149119	1063285	983862	821580	760211	634819	587400
	19.36	150		1273310	1149119	1063285	983862	821580	760211	634819	587400
	20.88	150		961570	867784	802964	742986	620435	574091	479398	443589
	21.47	150		891615	804652	744548	688934	575298	532326	444521	411318
	23.10	150		1273310	1149119	1063285	983862	821580	760211	634819	587400
	24.08	150		961570	867784	802964	742986	620435	574091	479398	443589
	25.48	150		1010199	911670	843572	780561	651812	603124	503642	466022
	27.41	150		1273310	1149119	1063285	983862	821580	760211	634819	587400
	28.47	150		961570	867784	802964	742986	620435	574091	479398	443589
	32.71	150		891615	804652	744548	688934	575298	532326	444521	411318
	38.81	150		749266	676187	625679	578944	483450	447339	373552	345650
	3950	66.08	130		1010199	911670	843572	780561	651812	603124	503642
71.08		130		1273310	1149119	1063285	983862	821580	760211	634819	587400
79.54		130		1273310	1149119	1063285	983862	821580	760211	634819	587400
84.64		130		1010199	911670	843572	780561	651812	603124	503642	466022
91.25		130		1273310	1149119	1063285	983862	821580	760211	634819	587400
102.11		130		1273310	1149119	1063285	983862	821580	760211	634819	587400
108.28		130		1273310	1149119	1063285	983862	821580	760211	634819	587400
116.89		130		1273310	1149119	1063285	983862	821580	760211	634819	587400
121.16		130		1273310	1149119	1063285	983862	821580	760211	634819	587400
128.93		130		1010199	911670	843572	780561	651812	603124	503642	466022
138.70		130		1273310	1149119	1063285	983862	821580	760211	634819	587400
144.06		130		1273310	1149119	1063285	983862	821580	760211	634819	587400
152.88		130		1010199	911670	843572	780561	651812	603124	503642	466022
164.47		130		1273310	1149119	1063285	983862	821580	760211	634819	587400
170.83		130		1273310	1149119	1063285	983862	821580	760211	634819	587400
196.25		130		891615	804652	744548	688934	575298	532326	444521	411318
232.88		130		749266	676187	625679	578944	483450	447339	373552	345650
4950		255.90	100	160-280	1273310	1149119	1063285	983862	821580	760211	634819
	329.73	100	160-280	1273310	1149119	1063285	983862	821580	760211	634819	587400
	340.48	100	160-280	1010199	911670	843572	780561	651812	603124	503642	466022
	368.97	100	160-280	961570	867784	802964	742986	620435	574091	479398	443589
	420.79	100	160-280	1273310	1149119	1063285	983862	821580	760211	634819	587400
	444.22	100	160-280	1273310	1149119	1063285	983862	821580	760211	634819	587400
	461.70	100	160-280	1273310	1149119	1063285	983862	821580	760211	634819	587400
	495.69	100	160-280	1010199	911670	843572	780561	651812	603124	503642	466022
	509.28	100	160-280	1010199	911670	843572	780561	651812	603124	503642	466022
	549.56	100	160-280	1273310	1149119	1063285	983862	821580	760211	634819	587400
	569.88	100	160-280	1010199	911670	843572	780561	651812	603124	503642	466022
	592.10	100	160-280	1273310	1149119	1063285	983862	821580	760211	634819	587400
	619.62	100	160-280	1273310	1149119	1063285	983862	821580	760211	634819	587400
	652.40	100	160-280	1010199	911670	843572	780561	651812	603124	503642	466022
	675.75	100	160-280	1010199	911670	843572	780561	651812	603124	503642	466022
	709.33	100	160-280	1273310	1149119	1063285	983862	821580	760211	634819	587400
	755.05	100	160-280	1273310	1149119	1063285	983862	821580	760211	634819	587400
	773.59	100	160-280	1010199	911670	843572	780561	651812	603124	503642	466022
	864.38	100	160-280	1273310	1149119	1063285	983862	821580	760211	634819	587400
	876.65	100	160-280	1273310	1149119	1063285	983862	821580	760211	634819	587400
	966.99	100	160-280	1010199	911670	843572	780561	651812	603124	503642	466022
	986.83	100	160-280	1273310	1149119	1063285	983862	821580	760211	634819	587400
	1146.63	100	160-280	1010199	911670	843572	780561	651812	603124	503642	466022
	1281.20	100	160-280	1273310	1149119	1063285	983862	821580	760211	634819	587400
	1397.26	100	160-280	749266	676187	625679	578944	483450	447339	373552	345650
	1471.84	100	160-280	891615	804652	744548	688934	575298	532326	444521	411318
	1746.58	100	160-280	749266	676187	625679	578944	483450	447339	373552	345650

**MODEL 095-260**



MODEL	OUTPUT SHAFT					INPUT SHAFT				FOOT MOUNTING							OVERALL			WT.	
	Dj6	H	Jh9	R	S	dj6	h	jh9	I	C	E	F	X	Y	T	G	M	A	LF	LH	Kg.
<b>SINGLE STAGE</b>																					
1095	19	21.5	6	M6	30	14	16	5	25	80	80	140	60	120	9	50	9	95	185	158	7.2
1130	28	31	8	M8	40	19	21.5	6	30	100	120	180	90	150	12	60	14	130	229	214	8
1160	38	41	10	M10	55	28	31	8	40	102	125	180	90	140	16	77	14	160	296	264	19
1190	50	53.5	14	M10	75	38	41	10	55	120	140	225	110	180	20	98	14	190	413	348	32
1240	60	64	18	M16	90	50	53.5	14	75	150	175	265	190	210	22	118	18	240	454	449	55
1260	70	74.5	20	M16	90	50	53.5	14	75	150	210	290	150	220	22	120	18	270	470	449	72

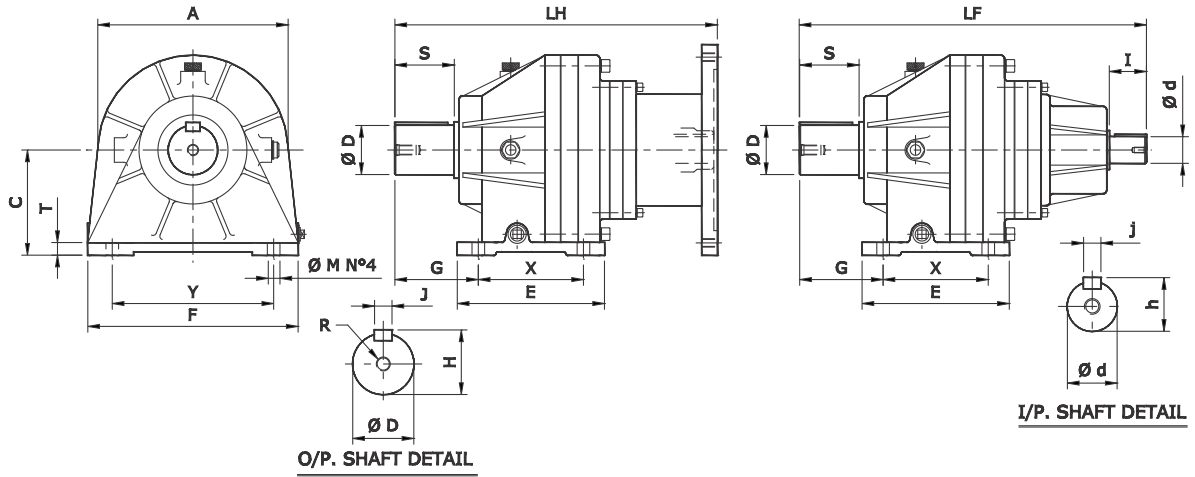
<b>DOUBLE STAGE</b>																					
2095	19	21.5	6	M6	30	14	16	5	25	80	80	140	60	120	9	50	9	95	208	181	9
2130	28	31	8	M8	40	14	16	5	25	100	120	180	90	150	12	60	14	130	242	215	11
2131	28	31	8	M8	40	19	21.5	6	30	100	120	180	90	150	12	60	14	130	250	265	11
2160	38	41	10	M10	55	19	21.5	6	30	102	125	180	90	140	16	77	14	160	313	298	21
2161	38	41	10	M10	55	28	31	8	40	102	125	180	90	140	16	77	14	160	348	316	23
2190	50	53.5	14	M10	75	28	31	8	40	120	140	225	110	180	20	98	14	190	397	365	33
2240	60	64	18	M16	90	28	31	8	40	150	175	265	190	210	22	118	18	240	453	422	59
2260	70	74.5	20	M16	90	38	41	10	55	150	210	290	150	220	22	120	18	270	531	466	79

<b>TRIPPLE STAGE</b>																					
3095	19	21.5	6	M6	30	14	16	5	25	80	80	140	60	120	9	50	9	95	232	205	10
3130	28	31	8	M8	40	14	16	5	25	100	120	180	90	150	12	60	14	130	265	238	11
3131	28	31	8	M8	40	19	21.5	6	30	100	120	180	90	150	12	60	14	130	300	285	18
3160	38	41	10	M10	55	14	16	5	25	102	125	180	90	140	16	77	14	160	326	299	25
3161	38	41	10	M10	55	19	21.5	6	30	102	125	180	90	140	16	77	19	160	350	368	30
3190	50	53.5	14	M10	75	19	21.5	6	30	120	140	225	110	180	20	98	14	190	414	399	34
3240	60	64	18	M16	90	19	21.5	6	30	150	175	265	190	210	22	118	18	240	471	456	59
3260	70	74.5	20	M16	90	28	31	8	40	150	210	290	150	220	22	120	18	270	515	483	75

<b>FOUR STAGE</b>																					
4095	19	21.5	6	M6	30	14	16	5	25	80	80	140	60	120	9	50	9	95	256	229	11
4130	28	31	8	M8	40	14	16	5	25	100	120	180	90	150	12	60	14	130	301	274	13
4160	38	41	10	m10	55	14	16	5	25	102	125	180	90	140	16	77	14	160	349	322	27
4190	50	53.5	14	m10	75	19	21.5	6	30	120	140	225	110	180	20	98	14	190	450	435	36
4240	60	64	18	m16	90	19	21.5	6	30	150	175	265	190	210	22	118	18	240	523	508	58
4260	70	74.5	20	m16	90	19	21.5	6	30	150	210	290	150	220	22	120	18	270	532	517	75



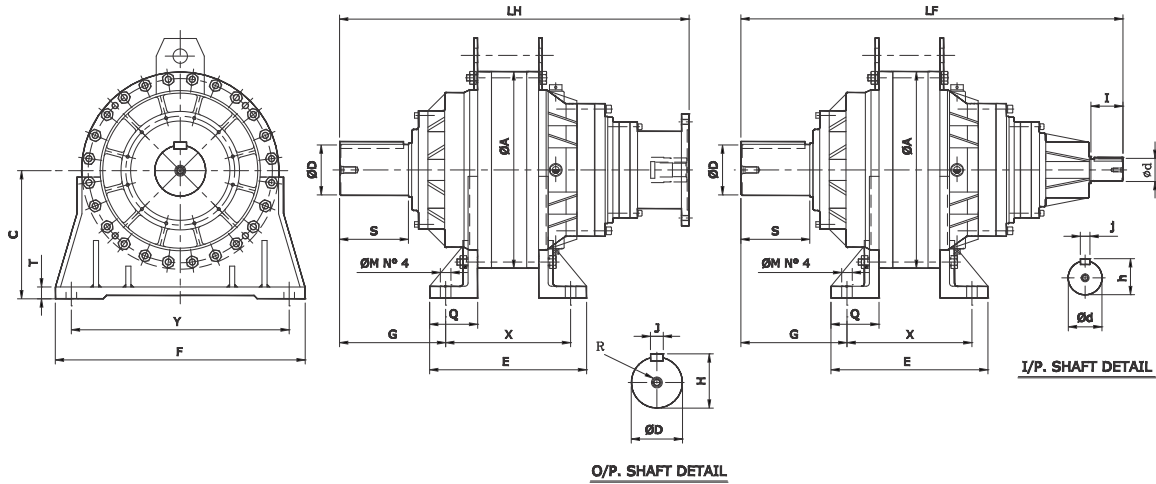
**MODEL 262-415**



MODEL	OUTPUT SHAFT					INPUT SHAFT				FOOT MOUNTING							OVERALL			WT.	
	Dj6	H	Jh9	R	S	dj6	h	jh9	I	C	E	F	X	Y	T	G	M	A	LF	LH	Kg.
<b>SINGLE STAGE</b>																					
1262	70	74.5	20	M16	90	50	53.5	14	75	150	210	290	150	220	22	120	18	270	470	449	72
1280	80	85.5	22	M16	110	50	53.5	14	75	160	250	350	200	300	25	140	18	285	514	511	96
1300	80	85.5	22	M16	110	70	74.5	20	100	180	255	350	200	300	30	140	22	300	626	524	127
1340	95	100	25	M16	135	70	74.5	20	100	200	300	400	220	320	30	168	22	340	651	587	172
1380	110	116	28	M20	170	70	74.5	20	100	200	300	400	250	350	30	195	22	380	717	661	201
1415	120	127	32	M20	180	90	95	25	120	250	380	450	300	400	30	250	26	415	827	693	255
<b>DOUBLE STAGE</b>																					
2262	70	74.5	20	M16	90	38	41	10	55	150	210	290	150	220	22	120	18	270	503	471	79
2280	80	85.5	22	M16	110	38	41	10	55	160	250	350	200	300	25	140	18	285	576	511	82
2300	80	85.5	22	M16	110	50	53.5	14	75	180	255	350	200	300	30	140	22	300	607	604	134
2340	95	100	25	M16	135	50	53.5	14	75	200	300	400	220	320	30	168	22	340	681	660	148
2380	110	116	28	M20	170	50	53.5	14	75	200	300	400	250	350	30	195	22	380	756	753	201
2415	120	127	32	M20	180	70	74.5	20	100	250	380	450	300	400	30	250	26	415	863	787	265
<b>TRIPPLE STAGE</b>																					
3262	70	74.5	20	M16	90	28	31	8	40	150	210	290	150	220	22	120	18	270	520	488	75
3280	80	85.5	22	M16	110	28	31	8	40	160	250	350	200	300	25	140	18	285	561	530	78
3300	80	85.5	22	M16	110	38	41	10	55	180	255	350	200	300	30	140	22	300	681	616	114
3340	95	100	25	M16	135	38	41	10	55	200	300	400	220	320	30	168	22	340	742	677	175
3380	110	116	28	M20	170	38	41	10	55	200	300	400	250	350	30	195	22	380	784	753	218
3415	120	127	32	M20	180	50	53.5	14	75	250	380	450	300	400	30	250	26	415	881	860	293
<b>FOUR STAGE</b>																					
4262	70	74.5	20	M16	90	19	21.5	6	30	150	210	290	150	220	22	120	18	270	532	517	75
4280	80	85.5	22	M16	110	19	21.5	6	30	160	250	350	200	300	30	140	18	285	579	564	80
4300	80	85.5	22	M16	110	28	31	8	40	180	255	350	200	300	30	140	22	300	675	633	122
4340	95	100	25	M16	135	28	31	8	40	200	300	400	220	320	30	168	22	340	736	694	201
4380	110	116	28	M20	170	28	31	8	40	200	300	400	250	350	30	195	22	380	811	770	208
4415	120	127	32	M20	180	38	41	10	55	250	380	450	300	400	30	250	26	415	957	877	301

• All Dimensions are in mm. • Hollow input Dimensions are per IEC-Standard for B-5 Flange type Electric Motors.  
 • Dimensions are Subject to Change without Prior Notice. • All Open Dimensions will have tolerance of 1-2 mm.

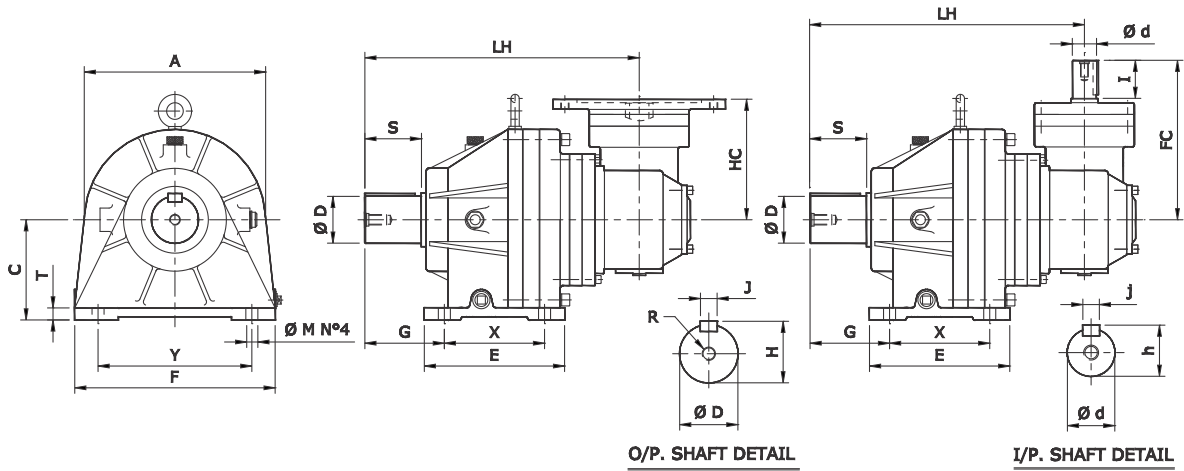
**MODEL 460-950**



MODEL	OUTPUT SHAFT					INPUT SHAFT				FOOT MOUNTING							OVERALL			WT.	
	Dj6	H	Jh9	R	S	dj6	h	jh9	I	C	E	F	X	Y	T	G	M	Q	LF	LH	Kg.
<b>SINGLE STAGE</b>																					
1460	140	148	36	M20	200	110	116	28	170	300	395	550	305	470	28	357	28	130	989		450
1515	150	158	36	M20	200	110	116	28	170	330	500	540	400	400	28	354	33	182	1036		620
1615	160	169	40	M20	215	130	137	32	190	400	490	780	390	680	37	331	33	150	1116		843
1670	175	185	45	M20	220	130	137	32	190	400	524	780	424	680	37	333	33	150	1140		995
1725	200	210	45	M24	260	140	148	36	195	430	560	800	430	700	37	339	33	170	1160		1295
1850	220	231	50	M24	300	160	169	40	215	520	620	980	500	850	45	395	40	188	1360		1825
1950	260	273	56	M30	390	175	185	45	220	600	720	1100	570	950	55	530	40	350	1580		2100
<b>DOUBLE STAGE</b>																					
2460	140	148	36	M20	200	70	74.5	20	100	300	395	550	305	470	28	357	28	130	941	902	650
2515	150	158	36	M20	200	90	95	25	120	330	500	540	400	400	28	354	33	182	1065	985	710
2615	160	169	40	M20	215	90	95	25	120	400	490	780	390	680	37	331	33	150	1131	1050	920
2670	175	185	45	M20	220	110	116	28	170	400	524	780	424	680	37	333	33	150	1276	1102	1095
2725	200	210	45	M24	260	110	116	28	170	430	560	800	430	700	37	339	33	170	1292	1142	1545
2850	220	231	50	M24	300	130	137	32	190	520	620	980	500	850	45	395	40	188	1570	1450	2595
2950	260	273	56	M30	390	140	148	36	195	600	720	1100	570	950	55	530	40	350	1640	1765	3355
<b>TRIPPLE STAGE</b>																					
3460	140	148	36	M20	200	70	74.5	20	100	300	395	550	305	470	28	357	28	130	1067	1023	777
3515	150	158	36	M20	200	70	74.5	20	100	330	500	540	400	400	28	354	33	182	1128	1090	840
3615	160	169	40	M20	215	70	74.5	20	100	400	490	780	390	680	37	331	33	150	1193	1155	990
3670	175	185	45	M20	220	70	74.5	20	100	400	524	780	424	680	37	333	33	150	1226	1167	1230
3725	200	210	45	M24	260	90	95	25	120	430	560	800	430	700	37	339	33	170	1326	1242	1665
3850	220	231	50	M24	300	110	116	28	170	520	620	980	500	850	45	395	40	188	1674	1500	3225
3950	260	273	56	M30	390	110	116	28	170	600	720	1100	570	950	55	530	40	350	1743	1894	3905
<b>FOUR STAGE</b>																					
4460	140	148	36	M20	200	50	53.5	14	75	300	395	550	305	470	28	357	28	130	1045	1000	832
4515	150	158	36	M20	200	50	53.5	14	75	330	500	540	400	400	28	354	33	182	1112	1120	895
4615	160	169	40	M20	215	50	53.5	14	75	400	490	780	390	680	37	331	33	150	1176	1185	1055
4670	175	185	45	M20	220	70	74.5	20	100	400	524	780	424	680	37	333	33	150	1349	1290	1310
4725	200	210	45	M24	260	70	74.5	20	100	430	560	800	430	700	37	339	33	170	1386	1348	1765
4850	220	231	50	M24	300	70	74.5	20	100	520	620	980	500	850	45	395	40	188	1625	1585	3525
4950	260	273	56	M30	390	90	95	25	120	600	720	1100	570	950	55	530	40	350	1926	1844	4255

• All Dimensions are in mm. • Hollow input Dimensions are per IEC-Standard for B-5 Flange type Electric Motors.  
 • Dimensions are Subject to Change without Prior Notice. • All Open Dimensions will have tolerance AS PER is-2102-1969

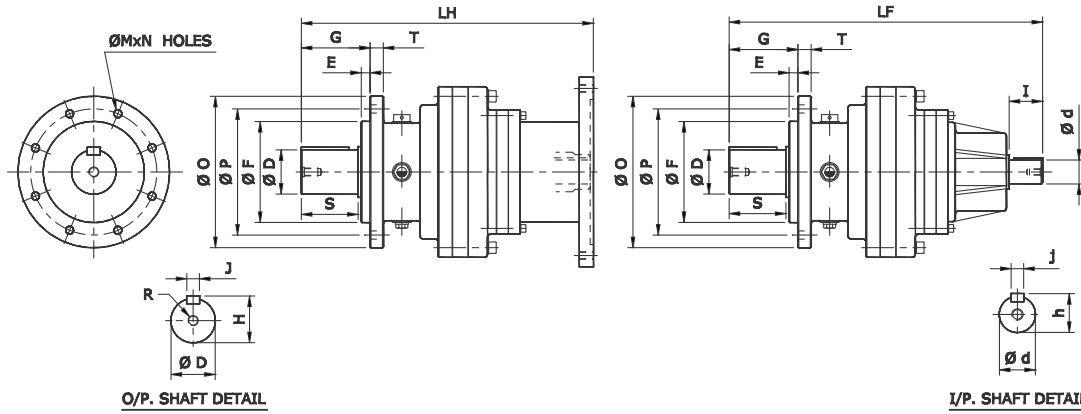
**MODEL 190-415 BR**



MODEL	OUTPUT SHAFT					INPUT SHAFT				FOOT MOUNTING								OVERALL				WT. Kg.
	Dj6	H	Jh9	R	S	dj6	h	jp9	l	C	E	F	X	Y	T	G	M	A	HC	FC	LH	
<b>SINGLE STAGE</b>																						
1190 BR	50	53.5	14	M10	75	38	41	10	55	180	255	350	200	300	20	140	22	190	174	230	296	42
1240 BR	60	64	18	M16	90	50	53.5	14	75	200	300	400	220	320	22	168	22	240	178	230	378	67
1260 BR	70	74.5	20	M16	90	50	53.5	14	75	150	210	290	150	220	22	120	18	270	241	310	401	87
1280 BR	80	85.5	22	M16	110	50	53.5	14	75	160	250	350	200	300	25	140	18	285	241	310	440	121
1300 BR	80	85.5	22	M16	110	70	74.5	20	100	180	255	350	200	300	30	140	22	300	312	410	536	190
1340 BR	95	100	25	M16	135	70	74.5	20	100	200	300	400	220	320	30	168	22	340	312	410	596	235
1380 BR	110	116	28	M20	170	70	74.5	20	100	200	300	400	250	350	30	195	22	380	312	410	662	240
1415 BR	120	127	32	M20	180	90	95	25	120	250	380	450	300	400	30	250	26	415	312	430	812	300
<b>DOUBLE STAGE</b>																						
2191 BR	50	53.5	14	M10	75	38	41	10	55	180	255	350	200	300	20	140	22	190	174	230	354	45
2240 BR	60	64	18	M16	90	38	41	10	55	200	300	400	220	320	22	168	22	240	174	230	410	66
2260 BR	70	74.5	20	M16	90	38	41	10	55	150	210	290	150	220	22	120	18	270	174	230	416	95
2280 BR	80	85.5	22	M16	110	50	53.5	14	75	160	250	350	200	300	25	140	18	285	178	230	500	109
2300 BR	80	85.5	22	M16	110	50	53.5	14	75	180	255	350	200	300	30	140	22	300	178	230	534	198
2340 BR	95	100	25	M16	135	50	53.5	14	75	200	300	400	220	320	30	168	22	340	241	310	614	220
2380 BR	110	116	28	M20	170	50	53.5	14	75	200	300	400	250	350	30	195	22	380	312	410	750	262
2415 BR	120	127	32	M20	180	50	53.5	14	75	250	380	450	300	400	30	250	26	415	312	410	812	335
<b>TRIPPLE STAGE</b>																						
3240 BR	60	64	18	M16	90	38	41	10	55	200	300	400	220	320	22	168	22	240	174	230	467	70
3260 BR	70	74.5	20	M16	90	38	41	10	55	150	210	290	150	220	22	120	18	270	174	230	474	86
3280 BR	80	85.5	22	M16	110	38	41	10	55	160	250	350	200	300	25	140	18	285	174	230	530	93
3300 BR	80	85.5	22	M16	110	38	41	10	55	180	255	350	200	300	30	140	22	300	174	230	564	125
3340 BR	95	100	25	M16	135	38	41	10	55	200	300	400	220	320	30	168	22	340	174	230	629	186
3380 BR	110	116	28	M20	170	50	53.5	14	75	200	300	400	250	350	30	195	22	380	178	230	750	260
3415 BR	120	127	32	M20	180	50	53.5	14	75	250	380	450	300	400	30	250	26	415	241	310	830	315
<b>FOUR STAGE</b>																						
4240 BR	60	64	18	M16	90	38	41	10	55	200	300	400	220	320	22	168	22	240	174	230	536	76
4260 BR	70	74.5	20	M16	90	38	41	10	55	150	210	290	150	220	22	120	18	270	174	230	546	87
4280 BR	80	85.5	22	M16	110	38	41	10	55	160	250	350	200	300	25	140	18	285	174	230	588	92
4300 BR	80	85.5	22	M16	110	38	41	10	55	180	255	350	200	300	30	140	22	300	174	230	622	135
4340 BR	95	100	25	M16	135	38	41	10	55	200	300	400	250	350	30	168	22	340	174	230	687	212
4380 BR	110	116	28	M20	170	38	41	10	55	200	300	400	250	350	30	195	22	380	174	230	778	265
4415 BR	120	127	32	M20	180	38	41	10	55	250	380	450	300	400	30	250	26	415	174	230	840	325

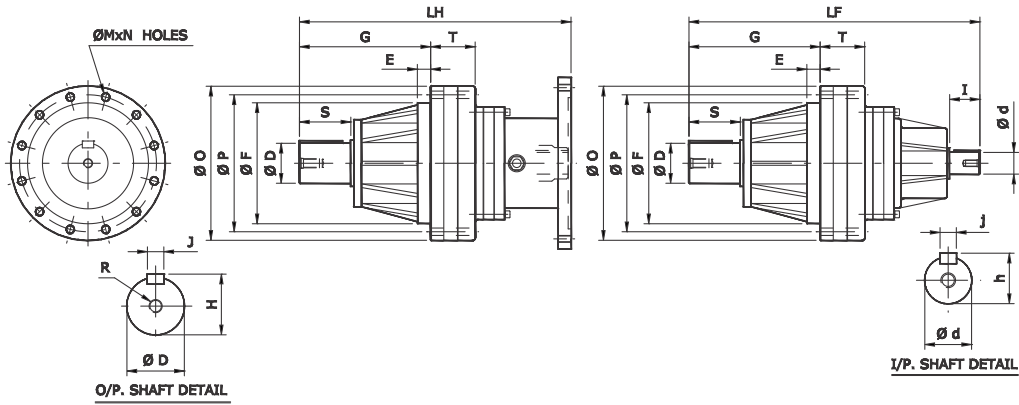
• All Dimensions are in mm. • Hollow input Dimensions are per IEC-Standard for B-5 Flange type Electric Motors.  
 • Dimensions are Subject to Change without Prior Notice. • All Open Dimensions will have tolerance AS PER is-2102-1969

**MODEL 095-262**



MODEL	OUTPUT SHAFT					INPUT SHAFT				FLANGE MOUNTING							OVERALL	WT.		
	Dj6	H	Jh9	R	S	dj6	h	jh9	I	O	P	Fh8	E	T	G	N	M	LF	LH	Kg.
<b>SINGLE STAGE</b>																				
1095	19	21.5	6	M6	30	14	16	5	25	120	102	80	3	10	35	4	10.5	185	158	6.2
1130	28	31	8	M8	40	19	21.5	6	30	140	115	95	3	12	42	4	12	229	214	7
1160	38	41	10	M10	55	28	31	8	40	155	135	100	10	12	68.5	8	9	296	264	16
1190	50	53.5	14	M10	75	38	41	10	55	200	165	130	13	15	90	8	13	413	348	26
1240	60	64	18	M16	90	50	53.5	14	75	240	200	160	18	20	113	8	13	452	449	48
1260	70	74.5	20	M16	90	50	53.5	14	75	240	200	160	14	21	109	8	13	467	446	60
1262	70	74.5	20	M16	90	50	53.5	14	75	240	200	160	14	21	109	8	13	467	446	61
<b>DOUBLE STAGE</b>																				
2095	19	21.5	6	M6	30	14	16	5	25	120	102	80	3	10	35	4	10.5	208	181	7.5
2130	28	31	8	M8	40	14	16	5	25	140	115	95	3	12	42	4	12	242	215	8
2131	28	31	8	M8	40	19	21.5	6	30	140	115	95	3	12	42	4	12	265	250	15
2160	38	41	10	m10	55	19	21.5	6	30	155	135	100	10	12	68.5	8	9	313	298	22
2161	38	41	10	m10	55	28	31	8	40	155	135	100	10	12	68.5	8	9	348	316	27
2190	50	53.5	14	m10	75	28	31	8	40	200	165	130	13	15	90	8	13	397	365	29
2240	60	64	18	m16	90	28	31	8	40	240	200	160	18	20	113	8	13	453	422	47
2260	70	74.5	20	m16	90	38	41	10	55	240	200	160	14	21	109	8	13	528	518	62
2262	70	74.5	20	m16	90	38	41	10	55	240	200	160	14	21	109	8	13	499	468	65
<b>TRIPPLE STAGE</b>																				
3095	19	21.5	6	M6	30	14	16	5	25	120	102	80	3	10	35	4	10.5	232	205	10
3130	28	31	8	M8	40	14	16	5	25	140	115	95	3	12	42	4	12	265	238	12
3131	28	31	8	M8	40	14	16	5	25	140	115	95	3	12	42	4	12	300	285	21
3160	38	41	10	M10	55	14	16	5	25	155	135	100	10	12	68.5	8	9	326	299	23
3161	38	41	10	M10	55	19	21.5	6	30	155	135	100	10	12	68.5	8	9	350	368	28
3190	50	53.5	14	M10	75	19	21.5	6	30	200	165	130	13	15	90	8	13	414	399	30
3240	60	64	18	M16	90	19	21.5	6	30	240	200	160	18	20	113	8	13	471	456	52
3260	70	74.5	20	M16	90	28	31	8	40	240	200	160	14	21	109	8	13	511	480	61
3262	70	74.5	20	M16	90	28	31	8	40	240	200	160	14	21	109	8	13	516	485	64
<b>FOUR STAGE</b>																				
4095	19	21.5	6	M6	30	14	16	5	25	120	102	80	3	10	35	4	10.5	256	229	11
4130	28	31	8	M8	40	14	16	5	25	140	115	95	3	12	42	4	12	301	274	14
4160	38	41	10	M10	55	14	16	5	25	155	135	100	10	12	68.5	8	9	349	322	22
4190	50	53.5	14	M10	75	19	21.5	6	30	200	165	130	13	15	90	8	13	450	435	31
4240	60	64	18	M16	90	19	21.5	6	30	240	200	160	18	20	113	8	13	523	508	52
4260	70	74.5	20	M16	90	19	21.5	6	30	240	200	160	14	21	109	8	13	529	514	76
4262	70	74.5	20	M16	90	19	21.5	6	30	240	200	160	14	21	109	8	13	529	514	79

**MODEL 280 - 415**

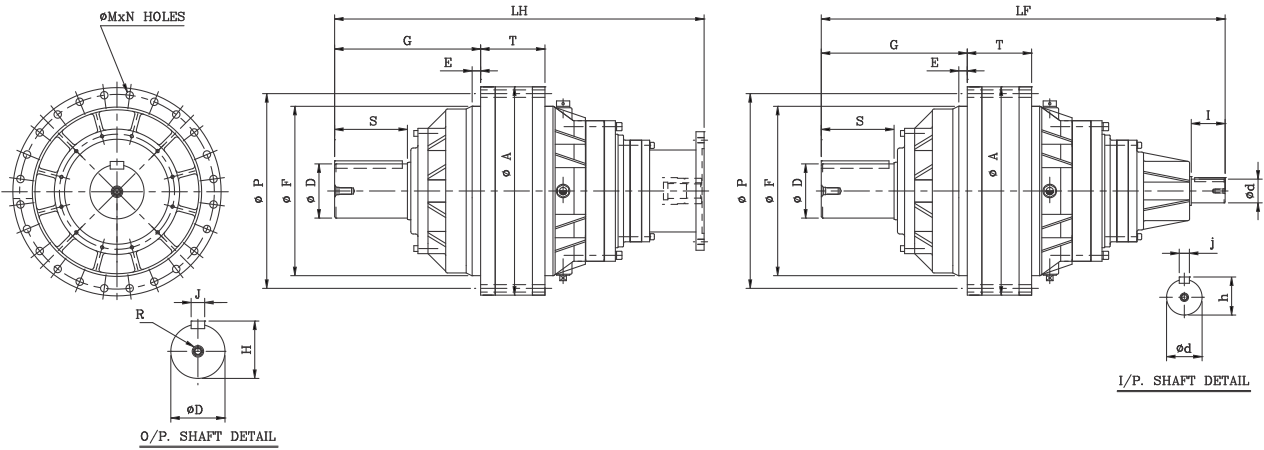


MODEL	OUTPUT SHAFT					INPUT SHAFT				FLANGE MOUNTING								OVERALL		WT.
	Dj6	H	Jh9	R	S	dj6	h	jh9	I	O	P	Fh8	E	T	G	N	M	LF	LH	Kg.
<b>SINGLE STAGE</b>																				
1280	80	85.5	22	M16	110	50	53.5	14	75	280	257	235	7	95	236	12	11	514	511	85
1300	80	85.5	22	M16	110	70	74.5	20	100	300	270	248	7	90	267	12	13	613	511	117
1340	95	100	25	M16	135	70	74.5	20	100	340	310	270	12	112	318	12	13	651	587	144
1380	110	116	28	M20	170	70	74.5	20	100	380	345	278	48	128	342	12	18	702	645	180
1415	120	127	32	M20	180	90	95	25	120	415	380	335	12	125	385	12	18	824	693	240
<b>DOUBLE STAGE</b>																				
2280	80	85.5	22	M16	110	38	41	10	55	280	257	235	7	95	236	12	11	576	511	65
2300	80	85.5	22	M16	110	50	53.5	14	75	300	270	248	7	90	267	12	13	594	591	123
2340	95	100	25	M16	135	50	53.5	14	75	340	310	270	12	112	318	12	13	681	660	125
2380	110	116	28	M20	170	50	53.5	14	75	380	345	278	48	128	342	12	18	741	738	190
2415	120	127	32	M20	180	70	74.5	20	100	415	380	335	12	125	385	12	18	866	787	260
<b>TRIPPLE STAGE</b>																				
3280	80	85.5	22	M16	110	28	31	8	40	280	257	235	7	95	236	12	11	559	530	70
3300	80	85.5	22	M16	110	38	41	10	55	300	270	248	7	90	267	12	13	668	603	98
3340	95	100	25	M16	135	38	41	10	55	340	310	270	12	112	318	12	13	742	677	148
3380	110	116	28	M20	170	38	41	10	55	380	345	278	48	128	342	12	18	769	737	254
3415	120	127	32	M20	180	50	53.5	14	75	415	380	335	12	125	385	12	18	881	860	293
<b>FOUR STAGE</b>																				
4280	80	85.5	22	M16	110	19	21.5	6	30	280	257	235	7	95	236	12	11	579	564	66
4300	80	85.5	22	M16	110	28	31	8	40	300	270	248	7	90	267	12	13	652	620	101
4340	95	100	25	M16	135	28	31	8	40	340	310	270	12	112	318	12	13	726	694	172
4380	110	116	28	M20	170	28	31	8	40	380	345	278	48	128	342	12	18	786	754	244
4415	120	127	32	M20	180	38	41	10	55	415	380	335	12	125	385	12	18	954	877	294

- All Dimensions are in mm. • Hollow input Dimensions are per IEC-Standard for B-5 Flange type Electric Motors.
- Dimensions are Subject to Change without Prior Notice. • All Open Dimensions will have tolerance of 1-2 mm.

## DIMENSIONS OF FLANGE MOUNTED UNITS

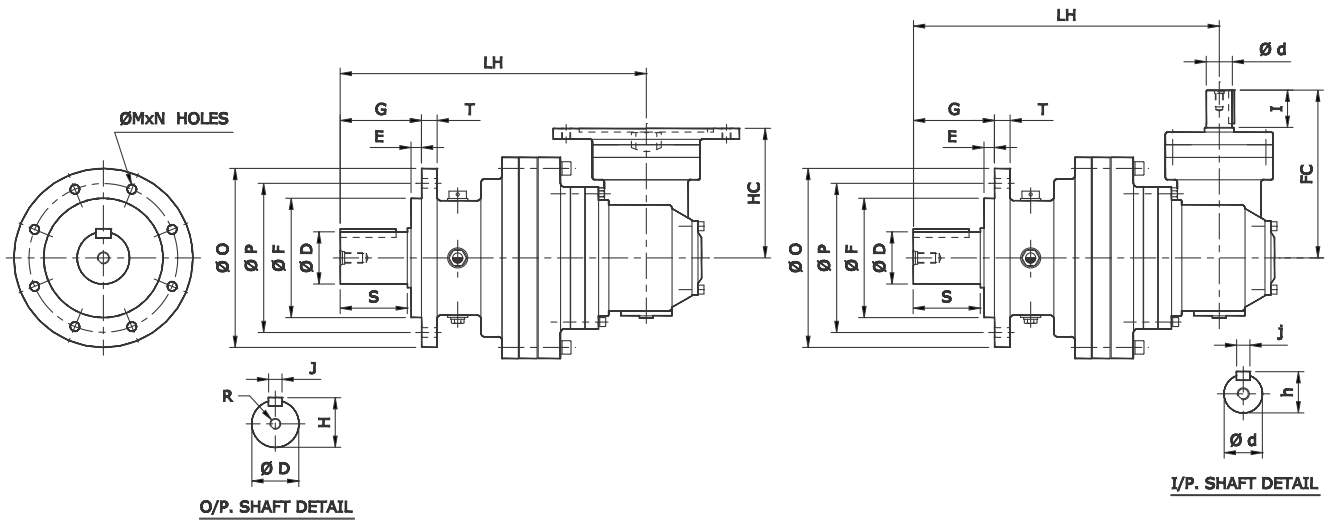
### MODEL 460-950



MODEL	OUTPUT SHAFT					INPUT SHAFT				FLANGE MOUNTING							OVERALL	WT.		
	Dj6	H	Jh9	R	S	dj6	h	jh9	I	A	P	Fh8	E	T	G	N	M	LF	LH	Kg.
<b>SINGLE STAGE</b>																				
1460	140	148	36	M20	200	110	116	28	170	465	430	385	22	135	442	16	18	989		400
1515	150	158	36	M20	200	110	116	28	170	515	478	430	25	136	485	12	22	1036		560
1615	160	169	40	M20	215	130	137	32	190	615	575	500	26	190	431	24	22	1116		764
1670	175	185	45	M20	220	130	137	32	190	670	630	570	22	224	433	24	22	1160		915
1725	200	210	45	M24	260	140	148	36	195	700	655	590	20	220	444	24	22	1160		1200
1850	220	231	50	M24	300	160	169	40	215	850	790	735	40	244	525	24	26	1360		1700
1950	260	237	56	M30	390	175	185	45	220	950	920	860	40	290	670	24	26	1580		1950
<b>DOUBLE STAGE</b>																				
2460	140	148	36	M20	200	70	74.5	20	100	465	430	385	22	135	442	16	18	941	902	600
2515	150	158	36	M20	200	90	95	25	120	515	478	430	25	136	485	12	22	1065	985	650
2615	160	169	40	M20	215	90	95	25	120	615	575	500	26	190	431	24	22	1131	1050	850
2670	175	185	45	M20	220	110	116	28	170	670	630	570	22	224	433	24	22	1276	1122	1015
2725	200	210	45	M24	260	110	116	28	170	700	655	590	20	220	444	24	22	1292	1142	1450
2850	220	231	50	M24	300	130	137	32	190	850	790	735	40	244	525	24	26	1570	1450	2470
2950	260	273	56	M30	390	140	148	36	195	950	920	860	40	290	670	24	26	1640	1765	3200
<b>TRIPPLE STAGE</b>																				
3460	140	148	36	M20	200	70	74.5	20	100	465	430	385	22	135	442	16	18	1067	1023	727
3515	150	158	36	M20	200	70	74.5	20	100	515	478	430	25	136	485	12	22	1128	1090	780
3615	160	169	40	M20	215	70	74.5	20	100	615	575	500	26	190	431	24	22	1193	1155	920
3670	175	185	45	M20	220	70	74.5	20	100	670	630	570	22	224	433	24	22	1226	1187	1150
3725	200	210	45	M24	260	90	95	25	120	700	655	590	20	220	444	24	22	1326	1348	1570
3850	220	231	50	M24	300	110	116	28	170	850	790	735	40	244	525	24	26	1676	1500	3100
3950	260	237	56	M30	390	110	116	28	170	950	920	860	40	290	670	24	26	1743	1894	3750
<b>FOUR STAGE</b>																				
4460	140	148	36	M20	200	50	53.5	14	75	465	430	385	22	135	442	16	18	1045	1000	782
4515	150	158	36	M20	200	50	53.5	14	75	515	478	430	25	136	485	12	22	1112	1120	835
4615	160	169	40	M20	215	50	53.5	14	75	615	575	500	26	190	431	24	22	1176	1185	985
4670	175	185	45	M20	220	70	74.5	20	100	670	630	570	22	224	433	24	22	1349	1310	1230
4725	200	210	45	M24	260	70	74.5	20	100	700	655	590	20	220	444	24	22	1386	1348	1670
4850	220	231	50	M24	300	70	74.5	20	100	850	790	735	40	244	525	24	26	1625	1585	3400
4950	260	273	56	M30	390	90	95	25	120	950	920	860	40	290	670	24	26	1923	1844	4100

- All Dimensions are in mm. • Hollow input Dimensions are per IEC-Standard for B-5 Flange type Electric Motors.
- Dimensions are Subject to Change without Prior Notice. • All Open Dimensions will have tolerance AS PER IS-2102-1969

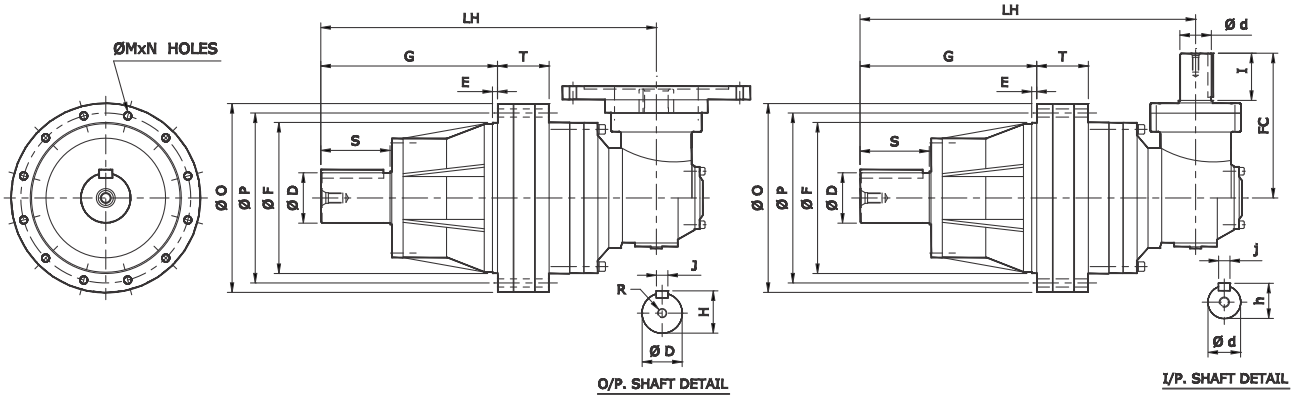
**MODEL 190 - 260 BR**



MODEL	OUTPUT SHAFT					INPUT SHAFT				FLANGE MOUNTING							OVERALL			WT.	
	Dj6	H	Jh9	R	S	dj6	h	jh9	l	O	P	Fh8	E	T	G	N	M	HC	FC	LH	Kg.
<b>SINGLE STAGE</b>																					
1190 BR	50	53.5	14	M10	75	38	41	10	55	200	165	130	13	15	90	8	13	174	230	296	36
1240 BR	60	64	18	M16	90	50	53.5	14	75	240	200	160	18	20	113	8	13	178	230	378	62
1260 BR	70	74.5	20	M16	90	50	53.5	14	75	240	200	160	14	21	109	8	13	241	310	400	76
1262 BR	70	74.5	20	M16	90	50	53.5	14	75	240	200	160	14	21	109	8	13	241	310	405	81
<b>DOUBLE STAGE</b>																					
2191 BR	50	53.5	14	M10	75	38	41	10	55	200	165	130	13	15	90	8	13	174	230	354	40
2240 BR	60	64	18	M16	90	38	41	10	55	240	200	160	18	20	113	8	13	174	230	410	59
2260 BR	70	74.5	20	M16	90	38	41	10	55	240	200	160	14	21	109	8	13	174	230	410	73
2262 BR	70	74.5	20	M16	90	38	41	10	55	240	200	160	14	21	109	8	13	174	230	415	78
<b>TRIPPLE STAGE</b>																					
3240 BR	60	64	18	M16	90	38	41	10	55	240	200	160	18	20	113	8	13	174	230	467	63
3260 BR	70	74.5	20	M16	90	38	41	10	55	240	200	160	14	21	109	8	13	174	230	468	72
3262 BR	70	74.5	20	M16	90	38	41	10	55	240	200	160	14	21	109	8	13	174	230	473	78
<b>FOUR STAGE</b>																					
4240 BR	60	64	18	M16	90	38	41	10	55	240	200	160	18	20	113	8	13	174	230	536	70
4260 BR	70	74.5	20	M16	90	38	41	10	55	240	200	160	14	21	109	8	13	174	230	545	90
4262 BR	70	74.5	20	M16	90	38	41	10	55	240	200	160	14	21	109	8	13	174	230	550	95

- All Dimensions are in mm. • Hollow input Dimensions are per IEC-Standard for B-5 Flange type Electric Motors.
- Dimensions are Subject to Change without Prior Notice. • All Open Dimensions will have tolerance AS PER is-2102-1969

**MODEL 280 - 415 BR**

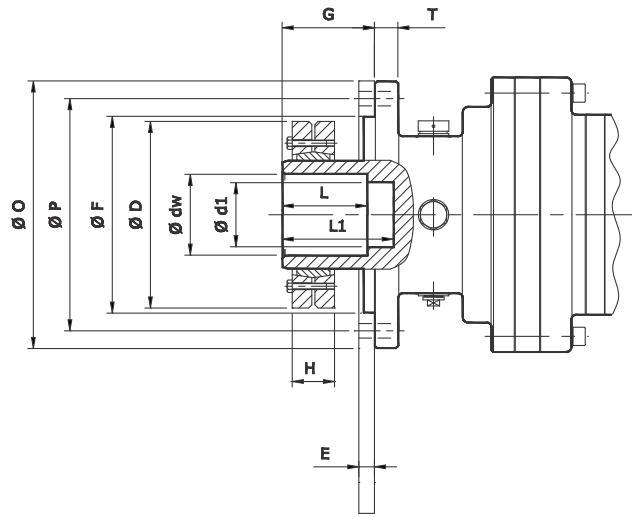
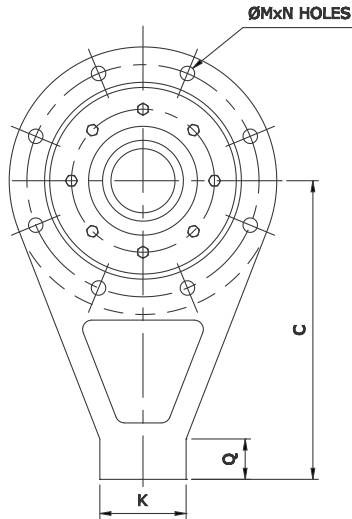


MODEL	OUTPUT SHAFT					INPUT SHAFT				FLANGE MOUNTING							OVERALL			WT.	
	Dj6	H	Jh9	R	S	dj6	h	jh9	I	O	P	Fh8	E	T	G	N	M	HC	FC	LH	Kg.
<b>SINGLE STAGE</b>																					
1280 BR	80	85.5	22	M16	110	50	53.5	14	75	280	257	235	7	95	236	12	11	241	310	440	110
1300 BR	80	85.5	22	M16	110	70	74.5	20	100	300	270	240	7	90	280	12	13	312	410	536	180
1340 BR	95	100	25	M16	135	70	74.5	20	100	340	310	270	12	112	318	12	13	312	410	596	215
1380 BR	110	116	28	M20	170	70	74.5	20	100	380	345	278	48	128	342	12	18	312	410	646	230
1415 BR	120	127	32	M20	180	90	95	25	120	415	380	335	12	125	385	12	18	312	430	720	290
<b>DOUBLE STAGE</b>																					
2280 BR	80	85.5	22	M16	110	50	53.5	14	75	280	257	235	7	95	236	12	11	178	230	500	79
2300 BR	80	85.5	22	M16	110	50	53.5	14	75	300	270	240	7	90	280	12	13	178	230	534	130
2340 BR	95	100	25	M16	135	50	53.5	14	75	340	310	270	12	112	318	12	13	241	310	614	142
2380 BR	110	116	28	M20	170	70	74.5	20	100	380	345	278	48	128	342	12	18	312	410	734	240
2415 BR	120	127	32	M20	180	70	74.5	20	100	415	380	335	12	125	385	12	18	312	410	812	332
<b>TRIPPLE STAGE</b>																					
3280 BR	80	85.5	22	M16	110	38	41	10	55	280	257	235	7	95	236	12	11	174	230	530	80
3300 BR	80	85.5	22	M16	110	38	41	10	55	300	270	240	7	90	280	12	13	174	230	564	110
3340 BR	95	100	25	M16	135	38	41	10	55	340	310	270	12	112	318	12	13	174	230	629	160
3380 BR	110	116	28	M20	170	50	53.5	14	75	380	345	278	48	128	342	12	18	178	230	734	255
3415 BR	120	127	32	M20	180	50	53.5	14	75	415	380	335	12	125	385	12	18	241	310	830	310
<b>FOUR STAGE</b>																					
4280 BR	80	85.5	22	M16	110	38	41	10	55	280	257	235	7	95	236	12	11	174	230	588	77
4300 BR	80	85.5	22	M16	110	38	41	10	55	300	270	240	7	90	280	12	13	174	230	622	112
4340 BR	95	100	25	M16	135	38	41	10	55	340	310	270	12	112	318	12	13	174	230	687	185
4380 BR	110	116	28	M20	170	38	41	10	55	380	345	278	48	128	342	12	18	174	230	762	256
4415 BR	120	127	32	M20	180	38	41	10	55	415	380	335	12	125	385	12	18	174	230	840	318

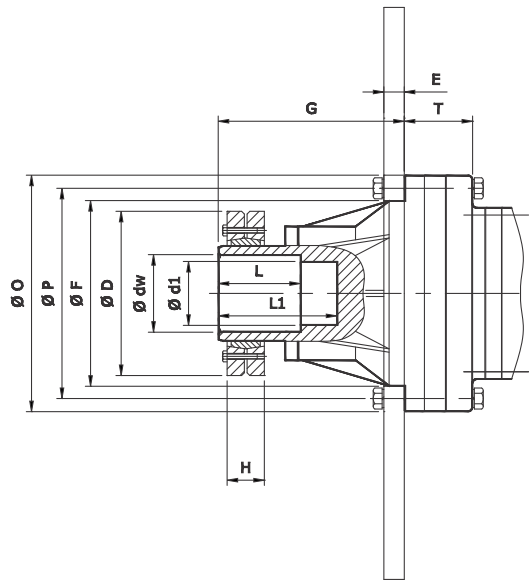
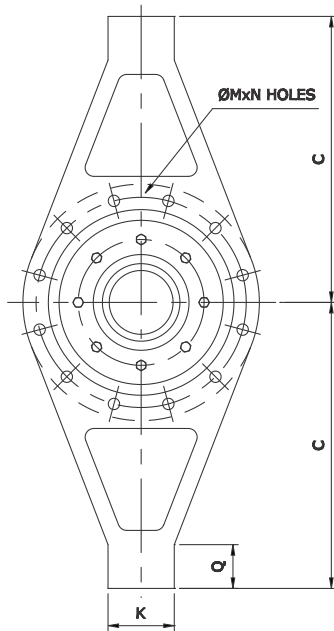
- All Dimensions are in mm. • Hollow input Dimensions are per IEC-Standard for B-5 Flange type Electric Motors.
- Dimensions are Subject to Change without Prior Notice. • All Open Dimensions will have tolerance AS PER is-2102-1969



## DIMENSIONS OF HOLLOW OUTPUT SHAFT (SHRINK DISC) SHAFT MOUNTED UNITS



MODEL	H7 dw	L	H7 d1	L1	D	H	h8 F	E	P	O	G	T	M	N	Q	K	C
160	40	50	30	68	90	27.5	100	12	135	155	55	12	9	8	30	30	180
190	50	60	40	80	110	30.5	130	14	165	200	63	15	13	8	40	50	350
240	60	65	40	87	145	32.5	160	16	200	240	102	20	13	8	50	60	450
260	70	75	50	97	155	39	160	16	200	240	105	21	13	8	50	60	450



MODEL	H7 dw	L	H7 d1	L1	D	H	h8 F	E	P	O	G	T	M	N	Q	K	C
280	80	80	60	110	185	50	235	18	257	280	236	95	11	12	50	90	330
300	100	80	70	110	230	60.5	240	18	270	300	285	82	13	12	50	90	340
340	120	80	80	120	290	71	270	20	310	340	300	112	13	12	55	100	350
380	130	85	80	135	300	71	278	25	345	380	275	128	18	12	55	100	350
415	130	100	80	150	300	71	335	25	380	415	322	137	18	12	60	120	400
460	150	160	85	220	350	86	385	25	460	465	398	130	18	16	80	160	400
515	150	160	130	200	350	86	430	30	478	515	261	136	22	12	100	160	550
615	170	160	160	260	405	107	500	32	575	615	316	185	22	24	120	200	750

## LUBRICATION

For effective Lubrication of gear unit we recommend the use of gear lube oil with EP additive and Minimum viscosity index of 95 and viscosity chosen is in order that, when the normal working temperature is reached, it has a 40-60 cst minimum value, in relation to the speed and transmitted torque conditions. Considering normal temperature increase of 40° C to 50° C, the choice is often made taking account of the ambient temperature, as per table bellows.

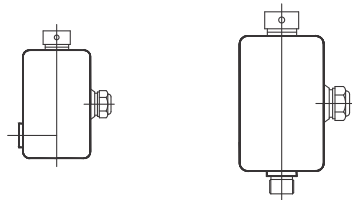
In case of wide temperature changes, we recommended use of synthetic lubricant, with EP additives, minimum viscosity index 165 and viscosity VG 220 (ISO 3448). For special applications where high power and speeds are involved, we suggest to contact us. However, it is always advisable to use age resistant oils, relative to their operational temperature. The period between oil changes depends upon the type of application and duties performed.

## TABLE OF LUBRICANTS

BRAND	OIL		
	AMBIENT TEMP 5° TO 30° C	AMBIENT TEMP 30° TO 65° C	AMBIENT TEMP 40° TO 75° C
INDIAN OIL	SERVOMESH 150	SERVOMESH 220	SERVOMESH 320
HINDUSTAN	GERVIL EP 150	GERVIL EP 220	GERVIL EP 320
BHARAT PETROLEUM	GRHP 150	GRHP 220	GRHP 320
ESSO	SPARTAN EP 150	SPARTAN EP 220	SPARTAN EP

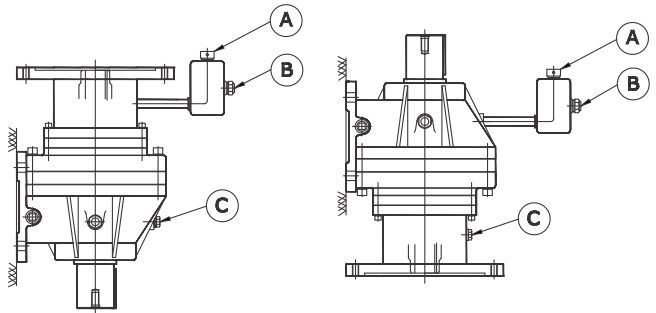
## OIL EXPANDER

The oil tank is an accessory especially provided for vertical mounted reduction gears with upward or downward output. This allows all parts of the reduction gear to be oil bath lubricated during motion.

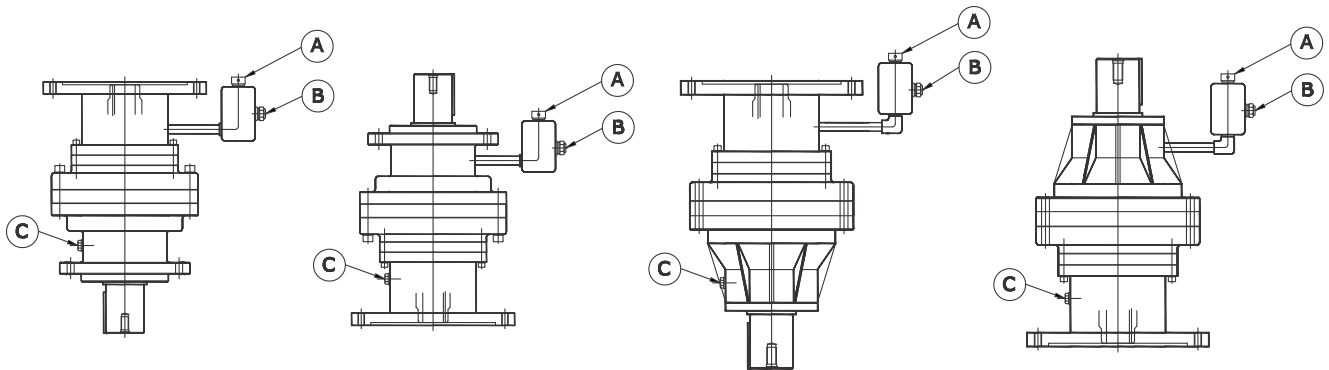


**OIL TANK TYPE'S**

- A = Oil Filler & Breather Plug
- B = Oil Level Plug
- C = Oil Drain Plug



**FOOT TYPE MODEL'S**



**FLANGE TYPE MODEL'S**

## COMMISSIONING

The reduction gears are supplied without lubricants & must be filled up with lubricants by the user before start up.  
 Remove breather plug when filling oil to enable air to escape.  
 Put back in place when oil escapes until filled up to level.  
 It is necessary to stop unit after 10-15 minutes of running & check oil level.  
 Fill, if necessary, to restore max.

## OIL CHANGE & LUBRICATION INTERVALS

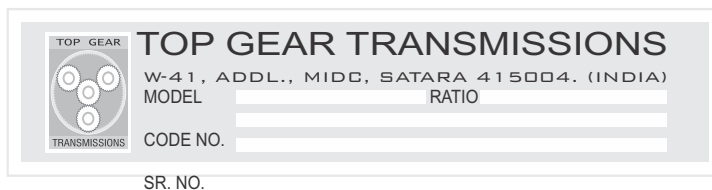
Oil change must be carried out after first 50 to 100 hours operation and subsequently after every 2500 hours or at least every 12 months. These intervals may be modified, depending upon the actual operating condition. During oil change, we recommend that in side of the gear case is flushed out with flushing fluid  
 Oil should be changed when hot to prevent build up of sludge deposit. It is advisable to check oil level at least once per month. If more than 10 % of total capacity has to be added, check for oil leaks. Do not mix oils of different types even of same make. Never mix mineral and synthetic oil.  
 Pay attention in oil and gear temperature during oil change to avoid the risk of scalding.  
 Be conscious of the pollution hazard due to oil.

Oil Temperature	Oil
Change Intervals	
< 65 °C	8000
Hrs	

## ORDERING CODE

Every gearbox manufactured and supplied by us has got specific code number and Serial number.  
 While ordering the spares or an identical new gearbox please specify this code number and Serial number which helps a lot in exact identification and correct specification.  
 The nameplate fixed on each gearbox is having the format given bellows,

Code No	=	Mounting	Input	Orientation
Stages			Model	Ratio
		F Foot	F Free	H Horizontal
131etc.		71		1
		L Flange	63 IEC Frame Size	V Vertical
		A Agitator	H Hydraulic Motor.	I Inclined
		S Shaft Mounted	X Non Std.	4





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