Model IB214P Series

STANDARD IB CLUTCH

IB214P

QUALITY IS STANDARD

- AVAILABLE IN SIZED 11.5“ THRU 21.0“
- TAPERED ROLLER MAIN BEARINGS
- OPTIONAL SINTERED IRON PLATES
- OPTIONAL BALL BEARING THROW OUT
- BUILT IN HEX NUT
- CREATES SUITABLE APPLICATION TORQUE CAPACITY
- MORE SUITABLE FOR SIDE LOAD APPLICATIONS
- CREATES 25% HIGHER TORQUE CAPACITY
- ALLOWS FOR MORE FREQUENT ENGAGEMENS
- EASES ADJUSTMENT VERIFICATION

SPECIFICATIONS – IB214P0, IB214P1

Model Number	SAE HSG.	Dimension “A” mm (in)	Max. Input Torque Nm (lb-ft)		Maximum Safe Speed				Weight kg (lbs)
					Solid Plates		Split Plates		
			Organic	Sintered	Cast Drive Ring	Nodular Drive Ring	Cast Drive Ring	Nodular Drive Ring	
IB214P0	0	100 (3.937)	2198 (1620)	2748 (2025)	2500	3000	1950	2750	150 (328)
IB214P1	1	80 (3.1496)							

LOAD CLASSIFICATIONS BASED UPON AGMA LOAD CHARACTERISTICS

PRIME MOVER	DURATION OF SERVICE	DRIVEN MACHINE LOAD CLASSIFICATIONS		
		UNIFORM	MODERATE SHOCK	HEAVY SHOCK
Electric motor	Up to 3 hours per day	1.00	1.25	1.50
	3-10 hours per day	1.00	1.25	1.75
	Over 10 hours per day	1.25	1.50	2.00
Multi-cylinder internal combustion engine	Up to 3 hours per day	1.00	1.25	1.75
	3-10 hours per day	1.25	1.50	2.00
	Over 10 hours per day	1.50	1.75	2.25
Multi-cylinder internal combustion engine with high torque rise	Up to 3 hours per day	1.50	1.75	2.25
	3-10 hours per day	1.75	2.00	2.50
	Over 10 hours per day	2.00	2.25	2.75
Single cylinder internal combustion engine	Up to 3 hours per day	1.25	1.50	2.00
	3-10 hours per day	1.50	1.75	2.25
	Over 10 hours per day	1.75	2.00	2.50

All clutch engagements to be with prime mover below 1000 RPM. High inertia loads may require use of larger clutch. Contact Twin Disc application engineering department for assistance.

TO CALCULATE APPLICATION TORQUE:

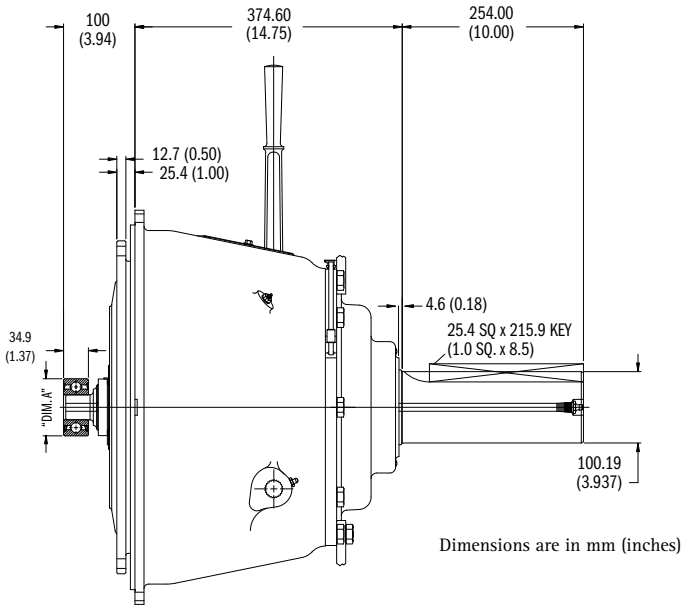
$$\frac{5252 \times HP}{\text{Engine RPM}} = \text{Torque}$$

Torque x Load Factor = Application Torque

Use load factor from chart at left

Specifications subject to change without prior notice in the interest of continual product improvement.
Contact your local Twin Disc representative for engineering specifications.

IB214P0



Dimensions are in mm (inches)

IB214P0 & IB214P1 – ALLOWABLE SIDE LOAD, KG (LBS)

PTO MODEL	RPM	X DISTANCE, mm (in)						
		25.4 (1.0)	50.8 (2.0)	76.2 (3.0)	101.6 (4.0)	127.0 (5.0)	152.4 (6.0)	177.8 (7.0)
IB214P0 M2137	1000	3629 (8000)	3425 (7550)	3175 (7000)	2665 (5875)	2279 (5025)	1826 (4025)	1826 (4025)
	1200	3425 (7550)	3243 (7150)	3084 (6800)				
	1800	3039 (6700)	2869 (6325)	2722 (6000)	2381 (5250)			
	2400	2790 (6150)	2631 (5800)	2495 (5500)				
IB214P1 M1985	1000	2989 (6590)	2340 (5160)	1928 (4250)	1633 (3600)	1420 (3130)	1252 (2760)	1120 (2470)
	1200							
	1800							
	2400	2790 (6150)						

The following general formula should be used for determining the actual applied load: $L = \frac{126{,}000 \times HP}{N \times D} \times F \times LF$

WHERE L = Actual Applied Load (lbs)
N = Shaft Speed (RPM)
D = Pitch Diameter (in) of Sheave, etc.
F = Load Factor
1.0 for Chain or Gear Drive, 1.5 for Timing Belts, 2.5 for All V Belts, 3.5 for Flat Belts
LF = 2.1 for Reciprocating Compressors and other Severe Shock Drives and 1.8 for Large Inertia Type Drives (i.e. crushers, chippers, planers, etc.)

Compound Drives and Power Engaged Power Take-Off applications must have written factory review.

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