STANDARD CX CLUTCH CX106P, CX107P, CX108P, CX110P

QUALITY IS STANDARD

- AVAILABLE IN SIZES 6.5" THRU 11.5"
- BALL TYPE MAIN BEARING
- · CREATES SUITABLE APPLICATION TORQUE CAPACITY
- OPTIONAL SINTERED IRON PLATES*
- · BUILT IN HEX NUT
- · SUITABLE FOR IN-LINE AND SIDE LOAD APPLICATIONS
- CREATES 25% HIGHER TORQUE CAPACITY*
- · EASES ADJUSTMENT VERIFICATION
- * NOT AVAILABLE ON THE CX106 & CX107



SPECIFICATIONS - CX106P & CX107P

Model Number	SAE HSG.	Max. Input Torque Nm (lb-ft)	Maximum Safe Speed	Weight kg (lbs)
CX106P4, CX106P5, CX106P6	4, 5, 6	216 (159)	3500	24 (53)
CX107P4, CX107P5, CX107P6	4, 5, 6	237 (175)	3200	25 (55)

SPECIFICATIONS - CX108P & CX110P

Model Number	SAE HSG.	Max. Input Torque, Nm (lb-ft)		Maximum Safe Speed				
				Solid Plates		Split Plates		Weight
		Organic	Sintered	Cast Drive Ring	Nodular Drive Ring	Cast Drive Ring	Nodular Drive Ring	kg (lbs)
CX 108P3, CX 108P4, CX 108P5	3, 4, 5	312 (230)	387 (285)	3100	3100	3050	3100	33 (72)
CX110P1, CX110P2, CX110P3, CX110P4	1, 2, 3, 4	448 (330)	556 (410)	3100	3930	2650	3500	52 (115)

LOAD CLASSIFICATIONS BASED UPON AGMA LOAD CHARACTERISTICS

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

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

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.



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

Twin Disc, Incorporated reminds users of these products that their safe operation depends on use in compliance with engineering information provided in our catalog. Users are also reminded that safe operation depends on proper installation, operation and routine maintenance and inspection under prevailing conditions. It is the responsibility of users (and not Twin Disc, Incorporated) to provide and install guards or safety devices which may be required by recognized safety standards or by the Occupational Safety and Health Act of 1970 and its subsequent provisions.

For nearly a century, we've been putting horsepower to work by designing, engineering and manufacturing rugged-duty industrial products. Our products and our reputation are bolted to the most renowned engine manufacturers and equipment OEMs in the world. Our mission is to make your machines and vehicles more productive, more durable, more operatorfriendly, more cost-effective. From design and installation consultation through aftersale support, Twin Disc and its distributors are committed to your business. No one knows more about managing horsepower in more ways than Twin Disc.

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Twin Disc, Incorporated Racine, Wisconsin 53403 USA Phone +1-262-638-4000 Fax +1-262-638-4482 www.twindisc.com

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