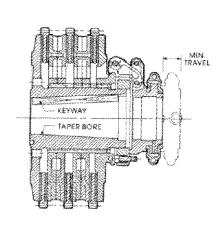
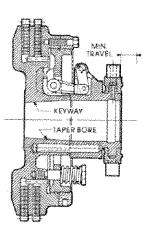
Dry Clutches

Capacity up to 1667 hp

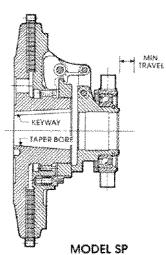


MODEL IBF STANDARD COLLAR



Application Duty Classification

MODEL SL SPRING APPLY



BALL-BEARING COLLAR

Maximum Sale Operating Speed (RPM)

Specifications

VP V M V M V M V M V M V M V M V M V M V			Closs	Clutch Maximum HP Rating (See Note 2)			Solid Plates		Spirt Plates	
Cluich Model	Assem Bronze Collar	Ball Bearing Callar	Max Input forque Lb.Ft.	Class II	Class III	Class IV	Cast Iron Dr. Ring	Nodular fron Dr.Ring	Cast Iron Dr Ring	Nodular Iron Dr Ring
C-106 C-107 C-108 C-119 C-111 P-111 P-211 P-311 (357) S-311 (357)	XA5059 XA5060 XA5079 X7876 X7875 XA6527 X468 X9644	XASOSVA XASOSCA XASOSCA XASOSCA XASOSCA XASOSCA XAG	159 175 230 328 387 455 909 1620 810	49 54 61 96 124 124 247 371 188	27 36 41 64 82 82 165 247 125	26 27 31 48 62 52 52 124 135	3500 3200 3100 3100 2850 2850 2850 2850 2400	3606 3206 3100 3935 3609 3600 3500 3500 3600	3500 3200 3050 2650 2200 2200 2200 NA	3500 3200 3400 3500 3200 3200 3160 NA
SP 214 (397) SP 214 (397) SP 314 SP 218 SP 318 SP 321	X7586 X75868 X7590 XA7197 X7674 X7677	X9586A X9586C X9590A XAZ19ZA XAZ19ZA NAZ	1620 1620 2430 4000 6000 5730	376 376 564 622 933 4270	251 251 376 415 622 547	188 188 282 311 467 636	2500 2500 2500 1950 2050 1800	3000 3000 3000 3000 NA 2350	1950 1950 1950 1920 1550 1500 1400	2750 2750 2750 2750 2700 NA 2100
8F 214 0F 314 8F-318 8F-321 3L 111 5 211 5L 214	X9756 XA7188 X9734 X9935 X193714P X8172E X81801P	NA NA NA NA NA NA	1620 3040 7500 8400 350 525 1000	395 741 1224 1667 124 247 376	264 494 816 1111 82 165 251	197 371 612 834 62 124 188	NR NR NR NR NR 2625 2700 1800	2400 2400 2200 2200 2200 2625 2750 1800	NA NA NA NA 2200 2200 1500	NA NR NR NR 2625 2750 1800

NOTES: 1. NA (Not available). NR (Not recommended).

2. Horsepower and torque ratings may be increased by specifying optional sintered iron type clutch plates. Available 8" through 21" sizes.

3. Sintered iron clutch plates with ventilated type center plates are standard in IBF-314, IBF-318 and IBF-321 units. These plates should not be used in applications where torsionals or vibrations are prevalent. Consult Twin Disc General Products Application Department, Racine, Wi 53403.

USE A CERTIFIED PRINT FOR INSTALLATION

Duty Service Classifications

Attention is called to the fact that other application factors must be considered in the selection process in addition to duty service, such as:

SPEED LIMITS · CLUTCH TORQUE LIMITS

The selections are usual dry clutch applications in which the clutch is engaged infrequently and after engagement, it is used in the engaged mode for a long time before disengagement. Generally, the prime mover speed is reduced below 50% of the operating speed for smoother clutch engagement, but this is not a requirement insofar as the clutch is concerned.

Duty Class I: The clutch is used for disconnecting the power from the load. When engaging, so little work is done that the clutch shows no temperature increase at the pressure plate outer surface. Use maximum input tarque from the Class I Table, disregard horsepower. The mechanism is operated one (1) or more hours before disconnecting.

Examples: Engagement of clutches with the driven equipment having WR2 less than that of the ciutch and whose torque demand curve is similar to that of a centrifugal oumo.

Duty Class II: The clutch is used primarily for disconnect, but does more work during engagement than in Duty Class I. The clutch will engage within two (2) seconds, never heat the pressure plate more than 50°F (27.8°C) above ambient, and once engaged is operated for one (1) or more hours before disconnecting. The maximum horsepower which the clutch can absorb is given in Class II Table.

Examples: Power shovel master clutch, generator, line shafts and similar light duty drives.

Duty Class III: The clutch will engage

within three (3) seconds, never heat the pressure plate more than 100°F (55.6°C) above ambient, and once engaged is operated for one (1) or more hours before disconnecting. The maximum horsepower which the clutch can absorb is given in Class III Table.

Examples: Clutches starting average loads, whose load is up to 1.4 times the running load. Blowers, fans. screw compressor, conveyors and similar normal duty drives,

Duty Class IV: The clutch will engage within four (4) seconds, never heat the pressure plate more than 150°F (83.3°C) above ambient, and once engaged is operated for one (1) or more hours before disconnecting. The maximum horsepower which the clutch can absorb is given in Class IV Table.

Examples: Clutches starting heavy loads, and large inertia machinery whose starting load is up to 1.8 times the running load typical of heavy duty drives.

	Optional Extra Accessories									
	Cast Iron Driving Ring	Nodular or Steel Driving Ring	Operating Yoke	Hand Lever	Finger Spring					
Model	Part Number	Part Number	Part Number	Part Number						
C-106	6939	N/A	X1037	x3799	Avail					
C 107	6001	Section Manager	X1037	X3/99	Avail					
C-108	5805	5605A	X1037	S X3/99	Avail					
- C-110	6187A	6187E	X1037	X3799	Avoil					
C-111	6625A	66250	X1037	X3799	Avail.					
SP-111	562SA	60250	X125A	X3744	NA					
SP-211	6931	71895	X3507	X3799	NA					
SF-311 .	NA NA	6525Nf	X5091	x7441A	N/A					
SP-114	to 6 5712	57126	X5091	X7441A	NA.					
SP-214	5713	5713D	X5091	x7441A	NA					
SP-314	A6518	A6518A	X5091	X7441A	NA					
SP-218	6925	6925E	XA5486	79215C						
SP-318	6926A	5926E	XA548/	X82150	NA					
\$2,321	6875	6875A	XA5486	X83773	NA NA					
IBF 214	NA NA	A6518C	XA4650	X7441A	NA					
IBF-314	NA NA	95835	XA4650	X7441A	NΑ					
£F-318	NA NA	95,952	X85363A	x83779	NA.					
₩-324	NA .	9917	XB5363A	х83778	NA.					
St-111	6625A	66250	X125B	X7441A	NA.					
SL-211	6931	6931T	X3507	X7441A	NA					
SL-214	5713	57130	X05458	X82158	1/A					

NOTE 4. SAE grade 8 attachment capscrews required.



RACINE, WISCONSIN 53403, U.S.A. englano south africa sin Australia TWIN DISC INTERNATIONAL S.A. 1400 NIVELLES, BELGIUM

IMPORTANT NOTICE: Twin Disc, Incorporated reminds users of these products that their safe operation depends on use in compliance with engineering information provided in this 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 Iwin 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.