

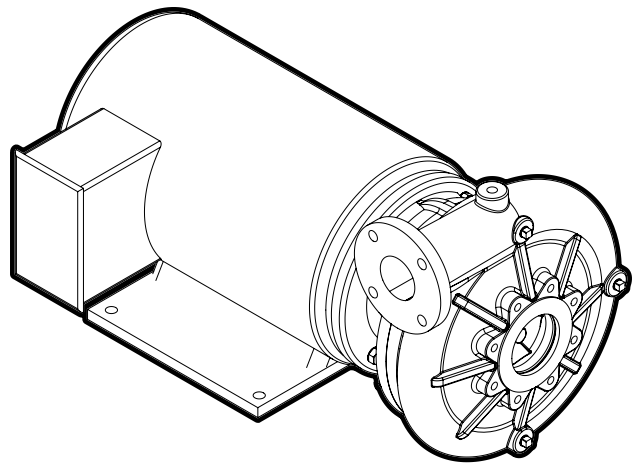
CENTRIFUGAL PUMPS

13" CLOSE-COUPLED

FPS

FEATURES

- Volute: Cast iron for heavy-duty service; back pull-out design; can be rotated for ease of installation; split volutes for reduction in radial bearing load (6 x 8-13 and 8 x 10-13)
- Impeller: Enclosed design for high efficiency; configured for superior NPSH characteristics; stainless steel construction; internally hydraulically balanced for reduced bearing load
- Seal: Packed box with lantern ring or mechanical seal with carbon ceramic faces, nitrile elastomers, and 300 series stainless steel components
- Motor: 1800 rpm standard JP frame; ODP or TEFC motor available
- Mounting: Can be mounted in vertical or horizontal positions
- Maintenance: Replaceable bronze wear rings and shaft sleeve; casing and frame jack-out holes; volute lifting bosses; 2-piece stainless steel packing gland



SPECIFICATIONS

- Capacities to 4400 gpm
- Heads to 180 feet
- 250 psi working pressure
- 212 °F maximum temperature
- Clockwise rotation when viewed from motor end
- Flanged class 150 pipe connections

Discharge (in)	Suction (in)
3	4
4	6
6	8
8	10

APPLICATIONS

- Irrigation
- Commercial
- Construction
- Municipal
- Mining
- Light Industrial

CENTRIFUGAL PUMPS

13" CLOSE-COUPLED



ORDERING INFORMATION

Model	HP	RPM	PH	Seal	ODP			TEFC		
					Order No.	Model Description	Wt. (lbs)	Order No.	Model Description	Wt. (lbs)
3 x 4-13	7.50	1750	3	Packing	70040313102	7XS4313-CCPJAA	402	72040313102	7XS4313-CTPJAA	442
	10		3	Packing	70040313100	10XS4313-CCPKBD	415	72040313100	10XS4313-CTPKBD	457
	15		3	Packing	70040313110	15XS4313-CCPLHF	508	72040313110	15XS4313-CTPLHF	559
	20		3	Packing	70040313120	20XS4313-CCPMHF	558	72040313120	20XS4313-CTPMHF	614
	25		3	Packing	70040313130	25XS4313-CCPNDB	585	72040313130	25XS4313-CTPNDB	644
	30		3	Packing	70040313140	30XS4313-CCPNHF	597	72040313140	30XS4313-CTPNHF	657
	40		3	Packing	70040313150	40XS4313-CCPPAG	730	72040313150	40XS4313-CTPPAG	803
	7.50		3	Mechanical	71040313103	7XS4313-CCMJAA	402	73040313103	7XS4313-CTMJAA	442
	10		3	Mechanical	71040313101	10XS4313-CCMKBD	415	73040313101	10XS4313-CTMKBD	457
	15		3	Mechanical	71040313111	15XS4313-CCMLHF	508	73040313111	15XS4313-CTMLHF	559
	20		3	Mechanical	71040313121	20XS4313-CCMMHF	558	73040313121	20XS4313-CTMMHF	614
	25		3	Mechanical	71040313131	25XS4313-CCMNDB	585	73040313131	25XS4313-CTMNDB	644
	30		3	Mechanical	71040313141	30XS4313-CCMNHF	597	73040313141	30XS4313-CTMNHF	657
	40		3	Mechanical	71040313151	40XS4313-CCMPAG	730	73040313151	40XS4313-CTMPAG	803
4 x 6-13H	20		3	Packing	70060413102	20XS6413H-CCPKDJ	573	72060413102	20XS6413H-CTPKDJ	630
	25		3	Packing	70060413112	25XS6413H-CCPLCF	600	72060413112	25XS6413H-CTPLCF	660
	30		3	Packing	70060413124	30XS6413H-CCPLJJ	612	72060413124	30XS6413H-CTPLJJ	673
	30		3	Packing	70060413126	30XS6413H-CCPMDJ	612	72060413126	30XS6413H-CTPMDJ	673
	40		3	Packing	70060413132	40XS6413H-CCPNCF	745	72060413132	40XS6413H-CTPNCF	820
	50		3	Packing	70060413142	50XS6413H-CCPPAA	878	72060413142	50XS6413H-CTPPAA	966
	20		3	Mechanical	71060413103	20XS6413H-CCMKDJ	573	73060413103	20XS6413H-CTMKDJ	630
	25		3	Mechanical	71060413113	25XS6413H-CCMLCF	600	73060413113	25XS6413H-CTMLCF	660
	30		3	Mechanical	71060413125	30XS6413H-CCMLJJ	612	73060413125	30XS6413H-CTMLJJ	673
	30		3	Mechanical	71060413127	30XS6413H-CCMMDJ	612	73060413127	30XS6413H-CTMMDJ	673
	40		3	Mechanical	71060413133	40XS6413H-CCMNCF	745	73060413133	40XS6413H-CTMNCF	820
	50		3	Mechanical	71060413143	50XS6413H-CCMPAA	878	73060413143	50XS6413H-CTMPAA	966

NOTE: Consult price sheets for list price adders. There will be an impeller trimming charge applied for any non-standard impeller trim.

CENTRIFUGAL PUMPS

13" CLOSE-COUPLED



ORDERING INFORMATION

Model	HP	RPM	PH	Seal	ODP			TEFC		
					Order No.	Model Description	Wt. (lbs)	Order No.	Model Description	Wt. (lbs)
6 x 8-13	25	1750	3	Packing	70080613150	25XS8613-CCPKFA	685	72080613150	25XS8613-CTPKFA	754
	30		3	Packing	70080613100	30XS8613-CCPLAA	697	72080613100	30XS8613-CTPLAA	767
	40		3	Packing	70080613110	40XS8613-CCPLJJ	830	72080613110	40XS8613-CTPLJJ	913
	40		3	Packing	70080613112	40XS8613-CCPMBD	830	72080613112	40XS8613-CTPMBD	913
	50		3	Packing	70080613120	50XS8613-CCPMGD	963	72080613120	50XS8613-CTPMGD	1059
	60		3	Packing	70080613130	60XS8613-CCPMJJ	1109	72080613130	60XS8613-CTPMJJ	1220
	60		3	Packing	70080613132	60XS8613-CCPNBD	1109	72080613132	60XS8613-CTPNBD	1220
	75		3	Packing	70080613140	75XS8613-CCPNFA	1183	72080613140	75XS8613-CTPNFA	1301
	75		3	Packing	70080613142	75XS8613-CCMPAA	1183	72080613142	75XS8613-CTMPAA	1301
	25		3	Mechanical	71080613151	25XS8613-CCMKFA	685	73080613151	25XS8613-CTMKFA	754
	30		3	Mechanical	71080613101	30XS8613-CCMLAA	697	73080613101	30XS8613-CTMLAA	767
	40		3	Mechanical	71080613111	40XS8613-CCMLJJ	830	73080613111	40XS8613-CTMLJJ	913
	40		3	Mechanical	71080613113	40XS8613-CCMMBD	830	73080613113	40XS8613-CTMMBD	913
	50		3	Mechanical	71080613121	50XS8613-CCMMGD	963	73080613121	50XS8613-CTMMGD	1059
	60		3	Mechanical	71080613131	60XS8613-CCMMJJ	1109	73080613131	60XS8613-CTMMJJ	1220
	60		3	Mechanical	71080613133	60XS8613-CCMNDB	1109	73080613133	60XS8613-CTMNDB	1220
	75		3	Mechanical	71080613141	75XS8613-CCMNFA	1183	73080613141	75XS8613-CTMNFA	1301
	75		3	Mechanical	71080613143	75XS8613-CCMPAA	1183	73080613143	75XS8613-CTMPAA	1301
8 x 10-13	60	1750	3	Packing	70100813100	60XS10813-CCPKJB	1294	72000813100	60XS10813-CTPKJB	1423
	75		3	Packing	70100813110	75XS10813-CCPLJJ	1368	72000813110	75XS10813-CTPLJJ	1505
	75		3	Packing	70100813112	75XS10813-CCPMCF	1368	72000813112	75XS10813-CTPMCF	1505
	100		3	Packing	70100813120	100XS10813-CCPMKE	1565	72000813120	100XS10813-CTPMKE	1722
	100		3	Packing	70100813122	100XS10813-CCPNDJ	1565	72000813122	100XS10813-CTPNDJ	1722
	125		3	Packing	70100813130	125XS10813-CCPNHF	1888	72000813130	125XS10813-CTPNHF	2077
	150		3	Packing	70100813140	150XS10813-CCPPAA	1981	72000813140	150XS10813-CTPPAA	2179
	60		3	Mechanical	71100813101	60XS10813-CCMKJB	1294	73000813101	60XS10813-CTMKJB	1423
	75		3	Mechanical	71100813111	75XS10813-CCMLJJ	1368	73000813111	75XS10813-CTMLJJ	1505
	75		3	Mechanical	71100813113	75XS10813-CCMLCF	1368	73000813113	75XS10813-CTMLCF	1505
	100		3	Mechanical	71100813121	100XS10813-CCMMKE	1565	73000813121	100XS10813-CTMMKE	1722
	100		3	Mechanical	71100813123	100XS10813-CCMNDJ	1565	73000813123	100XS10813-CTMNDJ	1722
	125		3	Mechanical	71100813131	125XS10813-CCMNHF	1888	73000813131	125XS10813-CTMNHF	2077
	150		3	Mechanical	71100813141	150XS10813-CCMPAA	1981	73000813141	150XS10813-CTMPAA	2179

NOTE: Consult price sheets for list price adders. There will be an impeller trimming charge applied for any non-standard impeller trim.

IMPELLER TRIM*

Example: 15XS4313-CCMLBD = 10.13" trim

A	0	D	3	G	6	K	9	N	12
B	1	E	4	H	7	L	10	P	13
C	2	F	5	J	8	M	11	Q	14

* Impeller trim diameter designated by the last three digits of the model description.

CENTRIFUGAL PUMPS

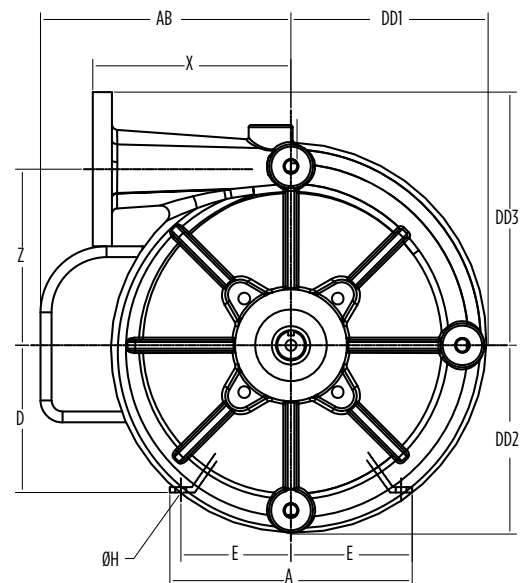
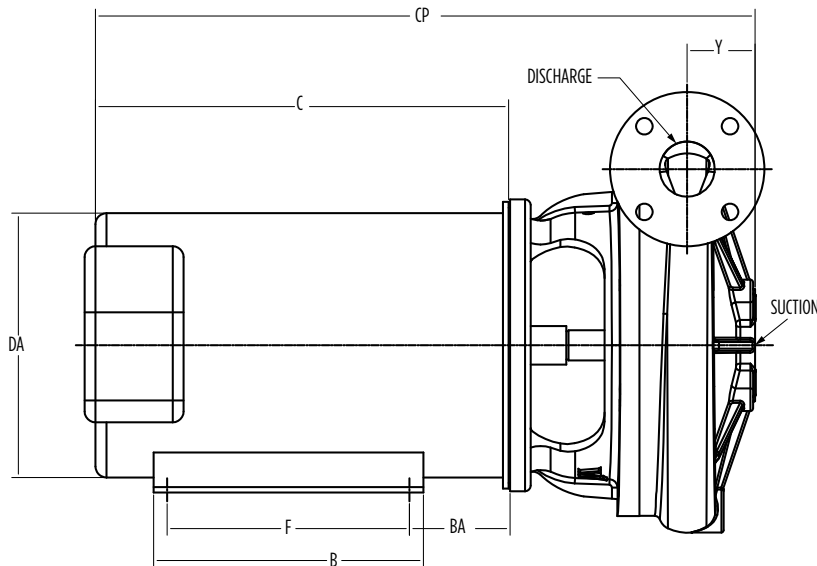
13" CLOSE-COUPLED



DIMENSIONS

Model	HP	RPM	Suc. x Dis. (NPT)	Frame	Dimensions (in)																					
					A	B	C	D	E	F	H	CP	X	Y	Z	AB	BA	DA	DD1	DD2	DD3					
3 x 4-13	10	1800	4 x 3	248JP	9.50	8.00	13.94	5.25	4.25	7.00	0.41	24.90	9.00	3.00	8.00	11.75	4.50	10.03	9.32	8.88	11.75					
	15			215JP	9.50	9.50	15.82	6.25	5.00	8.25	0.50	26.80	9.00	3.00	8.00	11.75	5.00	11.03								
	20			254JP	11.25	11.25	18.32	6.25	5.00	10.00	0.50	29.30	9.00	3.00	8.00	11.75	5.00	11.03								
	25			284JP	12.25	12.25	19.81	7.00	5.50	9.50	0.50	30.80	9.00	3.00	8.00	11.75	5.00	13.07								
	30			286JP	12.25	12.25	21.31	7.00	5.50	11.00	0.50	32.30	9.00	3.00	8.00	11.75	5.00	13.07								
	40			324JP	14.25	13.75	21.19	8.00	6.25	10.50	0.66	32.10	9.00	3.00	8.00	11.75	5.50	14.63								
4 x 6-13H	20		6 x 4	215JP	11.25	11.25	18.32	6.25	5.00	10.00	0.50	29.60	9.00	3.00	7.50	12.00	5.00	11.03	9.38	8.76	12.00					
	25			254JP	12.25	12.25	19.81	7.00	5.50	9.50	0.50	31.10	9.00	3.00	7.50	12.00	5.00	13.07								
	30			284JP	12.25	12.25	21.31	7.00	5.50	11.00	0.50	32.60	9.00	3.00	7.50	12.00	5.00	13.07								
	40			286JP	14.25	13.75	21.19	8.00	6.25	10.50	0.66	32.50	9.00	3.00	7.50	12.00	5.50	14.63								
	50			324JP	14.25	13.75	22.19	8.00	6.25	12.00	0.66	33.50	9.00	3.00	7.50	12.00	5.50	14.63								
	60			326JP	12.25	12.25	21.31	7.00	5.50	11.00	0.50	33.80	11.90	3.00	8.75	13.25	5.00	13.07								
6 x 8-13	40		8 x 6	286JP	14.25	13.75	21.19	8.00	6.25	10.50	0.66	33.70	11.90	3.00	8.75	13.25	5.50	14.63	12.40	10.18	14.25					
	50			324JP	14.25	13.75	22.19	8.00	6.25	12.00	0.66	34.70	11.90	3.00	8.75	13.25	5.50	14.63								
	60			326JP	15.75	14.00	22.31	9.00	7.00	11.25	0.66	34.80	11.90	3.00	8.75	13.25	6.12	16.50								
	75			365JP	15.75	14.00	24.31	9.00	7.00	12.25	0.66	36.80	11.90	3.00	8.75	13.25	6.12	16.50								
	8 x 10-13			60	10 x 8	364JP	15.75	14.00	22.31	9.00	7.00	11.25	0.66	35.00	12.80	4.00	10.00	16.75				6.12	16.50	14.63	11.59	16.75
				75		365JP	15.75	14.00	24.31	9.00	7.00	12.25	0.66	37.00	12.80	4.00	10.00	16.75				6.12	16.50			
100			404TCZ	18.50		16.62	28.21	10.00	8.00	12.25	0.81	40.90	12.80	4.00	10.00	16.75	6.88	18.41								
125			405TCZ	18.50		16.62	29.97	10.00	8.00	13.75	0.81	42.70	12.80	4.00	10.00	16.75	6.88	18.41								
150	444TCZ		22.00	19.00		31.38	11.00	9.00	16.50	0.81	44.10	12.80	4.00	10.00	16.75	7.75	21.88									

NOTE: Dimensions are for estimating purposes only.

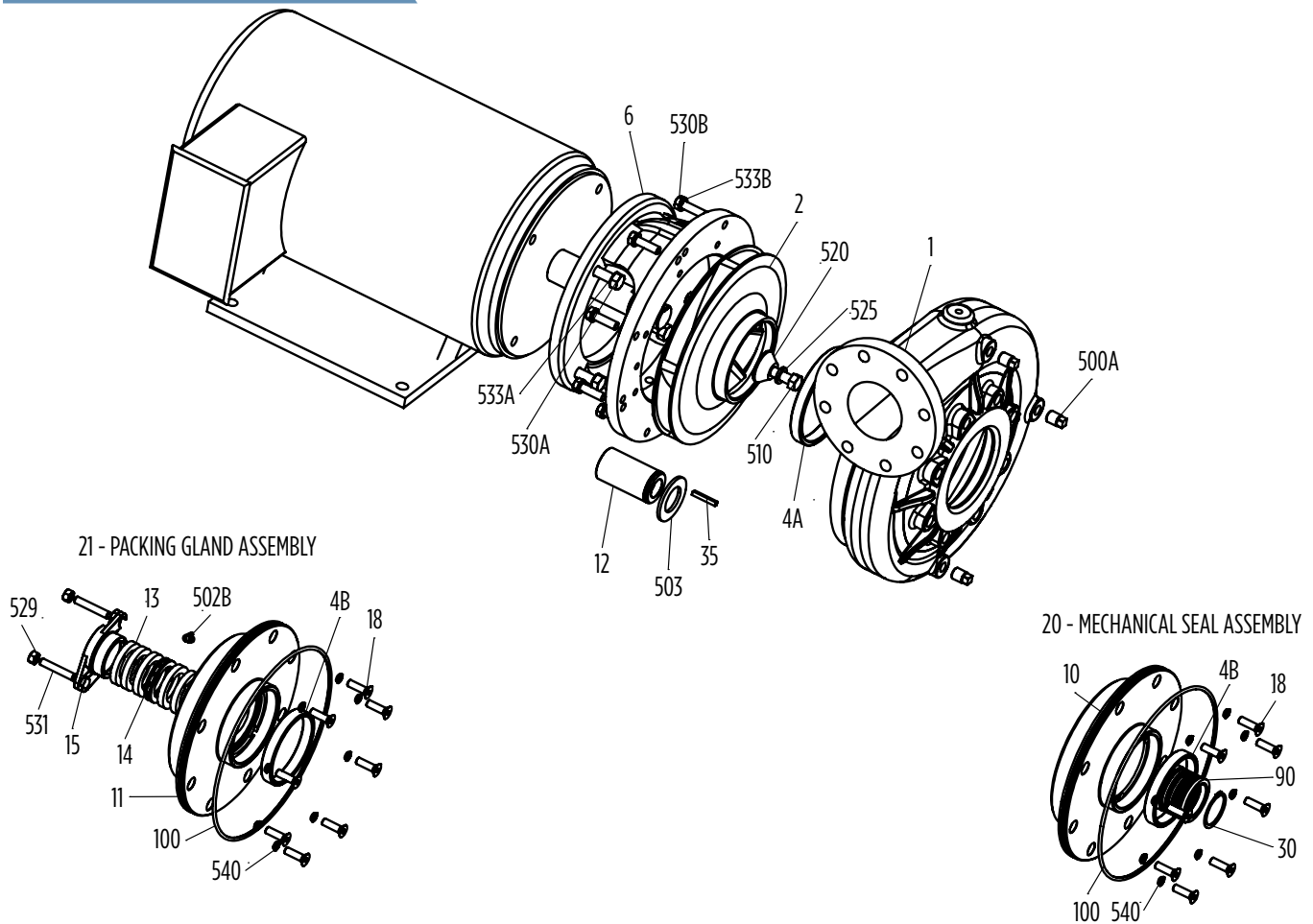


CENTRIFUGAL PUMPS

13" CLOSE-COUPLED



EXPLODED PARTS DRAWING



CENTRIFUGAL PUMPS

13" CLOSE-COUPLED



MATERIALS & PARTS

Fig. No.	Part Description	Part No.					Materials of Construction	
		XS25x3-13	XS3x4-13	XS4x6-13H	XS6x8-13			XS8x10-13
					25-50 HP	60-75 HP		
1	Volute Case	305464034	305464001	305464017	305464018		305464019	Cast iron, ASTM-48 Class 30
2	Impeller	305464035	305464002	305464063	305464059	305464021	305464022	316 stainless steel
4A	Volute Case Wear Ring	305464036	305464003	305464023	305464024		305464025	SAE 660 bronze
4B	Seal Plate Wear Ring		305464003		305464025			SAE 660 bronze
6	Motor Bracket (8.5 AK*)		305464037		N/A			Cast iron, ASTM-48 Class 30
6	Motor Bracket (12.5 AK*)		305464052					Cast iron, ASTM-48 Class 30
10	Mechanical Seal Back Plate		305464006		305464026			Cast iron, ASTM-48 Class 30
11	Packing Seal Back Plate		305464007		305464027			Cast iron, ASTM-48 Class 30
12A	Packing Shaft Sleeve		305464056			305464028		416 stainless steel
12B	Mechanical Seal Shaft Sleeve		305464057			305464029		416 stainless steel
13	Packing Ring Set			305731918				Graphite/cotton
14	Lantern Ring			305464011				Acetal
15	Packing Gland (2 piece)			305464012				316 stainless steel
18	Seal Plate Flat Socket Cap Screw (8 pack)			305463147				300 series stainless steel
20	Mechanical Seal Assembly		305464013		305464030			Misc.
21	Packing Gland Assembly		305464014		305464031			Misc.
30	Mechanical Seal Retaining Ring			305463149				316 stainless steel
35	Impeller Shaft Key (2 pack)		305463150			305464032		316 stainless steel
90	Mechanical Shaft Seal			305463153				Carbon/ceramic/nitrile/316 stainless steel
100	Volute Case O-ring			305463154				Nitrile
503	Water Slinger			305464015				Neoprene
510	Impeller Hex Cap Screw		305463155		305463167			316 stainless steel
520	Impeller Washer		305464016			305464058		300 series stainless steel
525	Impeller Lock Washer		305463156			305463168		316 stainless steel
529	Packing Gland Nut (2 pack)			305463157				Zinc-plated steel
531	Packing Gland Stud (2 pack)			305463158				Zinc-plated steel
540	Flat Socket Cap Screw Seal (8 pack)			305463159				Nylon
500A	Pipe Plug (4-pack)	305463175		305463144	305463175	305463144		CAD-plated steel
502A	Grease Zerk Straight (3 pack)			305463160				CAD-plated steel
502B	Grease Zerk, 65 Deg.			305418960				CAD-plated steel
530A	Motor Bracket Hex Cap Screw, 1/2" 8.5 AK (4 pack)		305463163		N/A			Zinc-plated steel, grade-5
530A	Motor Bracket Hex Cap Screw, 5/8" 12.5 AK (4 pack)			305463169				Zinc-plated steel, grade-5
530B	Volute Case Hex Cap Screw (8 pack)			305463163				Zinc-plated steel, grade-5
533A	Motor Bracket Lock Washer, 1/2" 8.5 AK (8 pack)			305463067				Zinc-plated steel
533A	Motor Bracket Lock Washer, 5/8" 12.5 AK (8 pack)			305463188				Zinc-plated steel
533B	Volute Case Hex Cap Lock Washer (8 pack)			305463067				Zinc-plated steel
Not Shown	Set Screw (mechanical seal only)			305463165				300 series stainless steel

Bracket	HP	RPM	Part No.
8.5 AK	10-20	3575	305412902
12.5 AK	25-75	3575	305412906

NOTES

13" CLOSE-COUPLED





Franklin Electric