

850 SERIES – Model 3X2-8



Model 3X2-8 – Close-Coupled Configuration

PERFORMANCE

850CC/3X2-8/2P

Max. Flow Rate: 348 gpm

Max. Head: 253 ft.

Max. Working Temperature: 120° F

Max. Working Pressure: 175 psi

Max. Rated Speed: 3600 RPM

Max. Particle Size: 0.28" Diameter

Hydrotest Pressure: 263 psi

850CC/3X2-8/4P

Max. Flow Rate: 185 gpm

Max. Head: 65 ft.

Max. Working Temperature: 120° F

Max. Working Pressure: 175 psi

Max. Rated Speed: 1800 RPM

Max. Particle Size: 0.28" Diameter

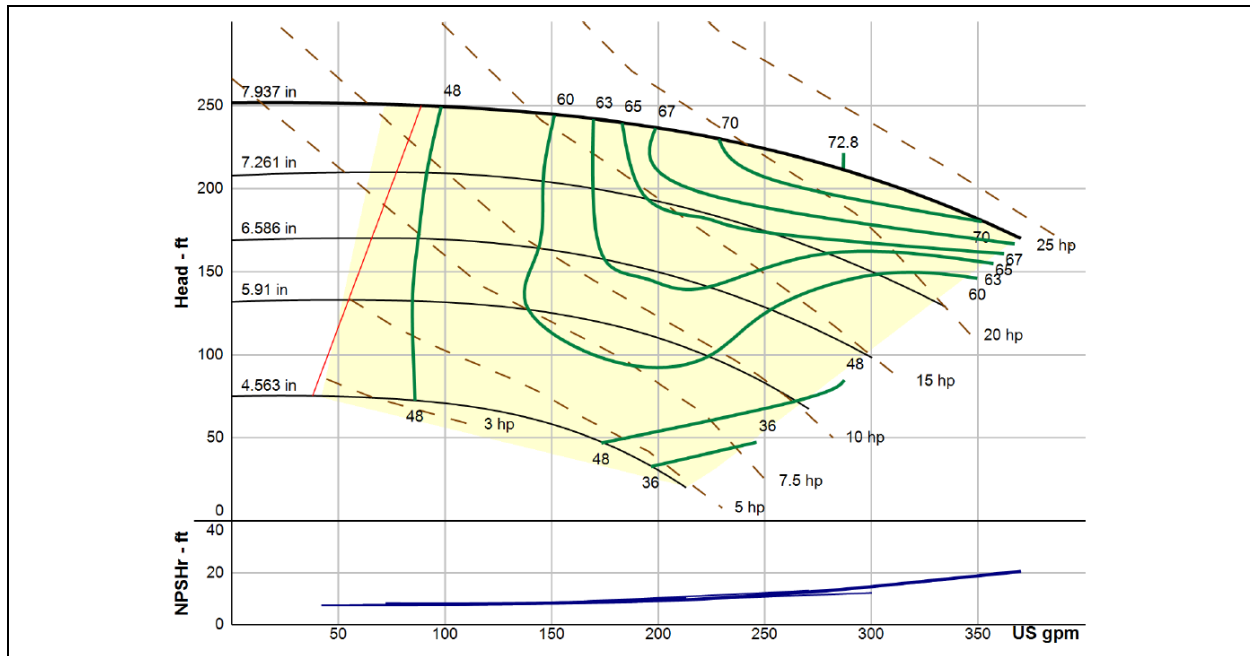
Hydrotest Pressure: 263 psi

850 Series Model: 850CC/3X2-8/2P	PEI _{CL} 0.92	Impeller Diameter: 7.937 in.
850 Series Model: 850CC/3X2-8/4P	PEI _{CL} 0.90	Impeller Diameter: 7.937 in.

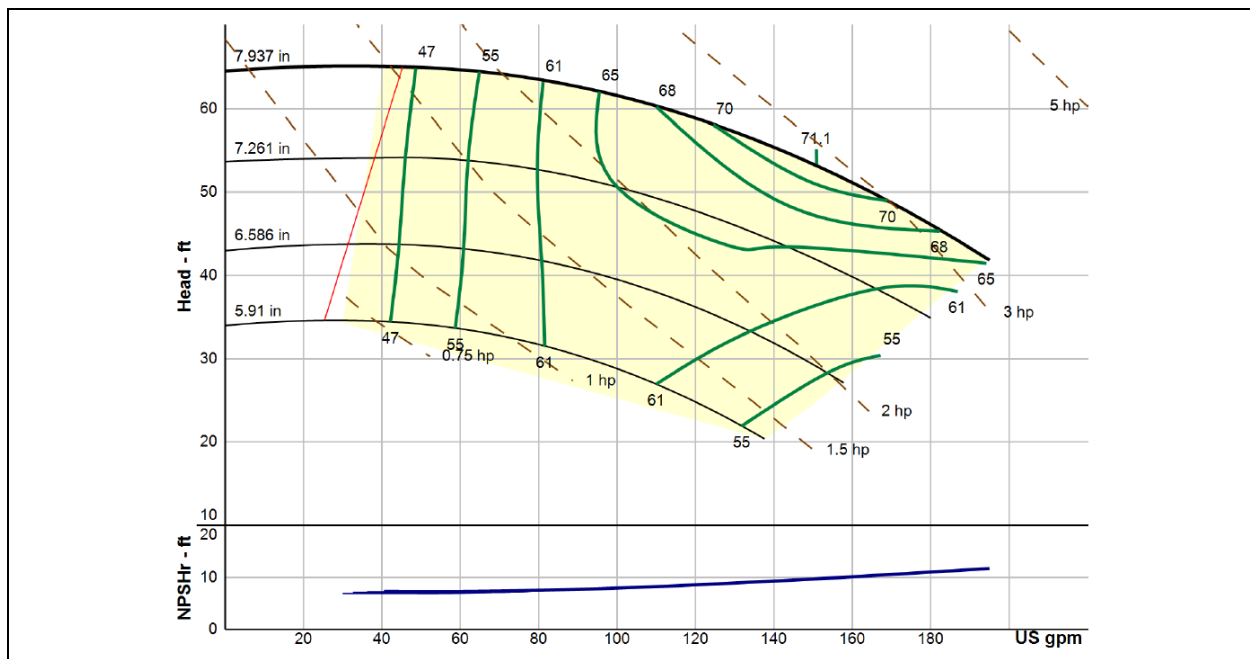
850 SERIES – Model 3X2-8



PERFORMANCE CURVE – 850CC/3X2-8/2P, 3450 RPM



PERFORMANCE CURVE – 850CC/3X2-8/4P, 1750 RPM

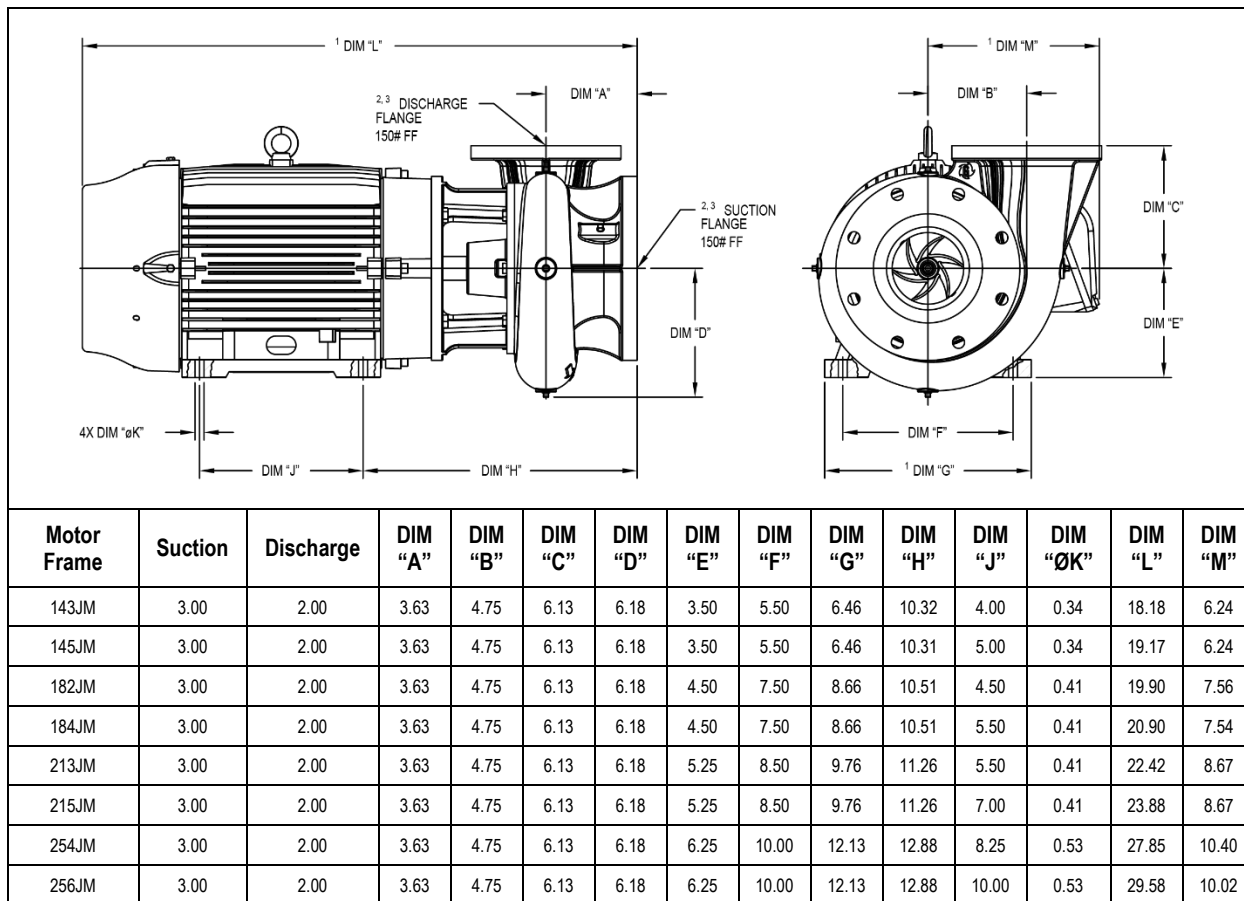


850 Series Model: 850CC/3X2-8/2P	PEI _{CL} 0.92	Impeller Diameter: 7.937 in.
850 Series Model: 850CC/3X2-8/4P	PEI _{CL} 0.90	Impeller Diameter: 7.937 in.

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DIMENSIONS (INCHES)



¹Dimension may vary with motor model and manufacturer

²150# Flange is dimensionally identical to a 125# Flange

³Bolt holes straddle pump centerlines

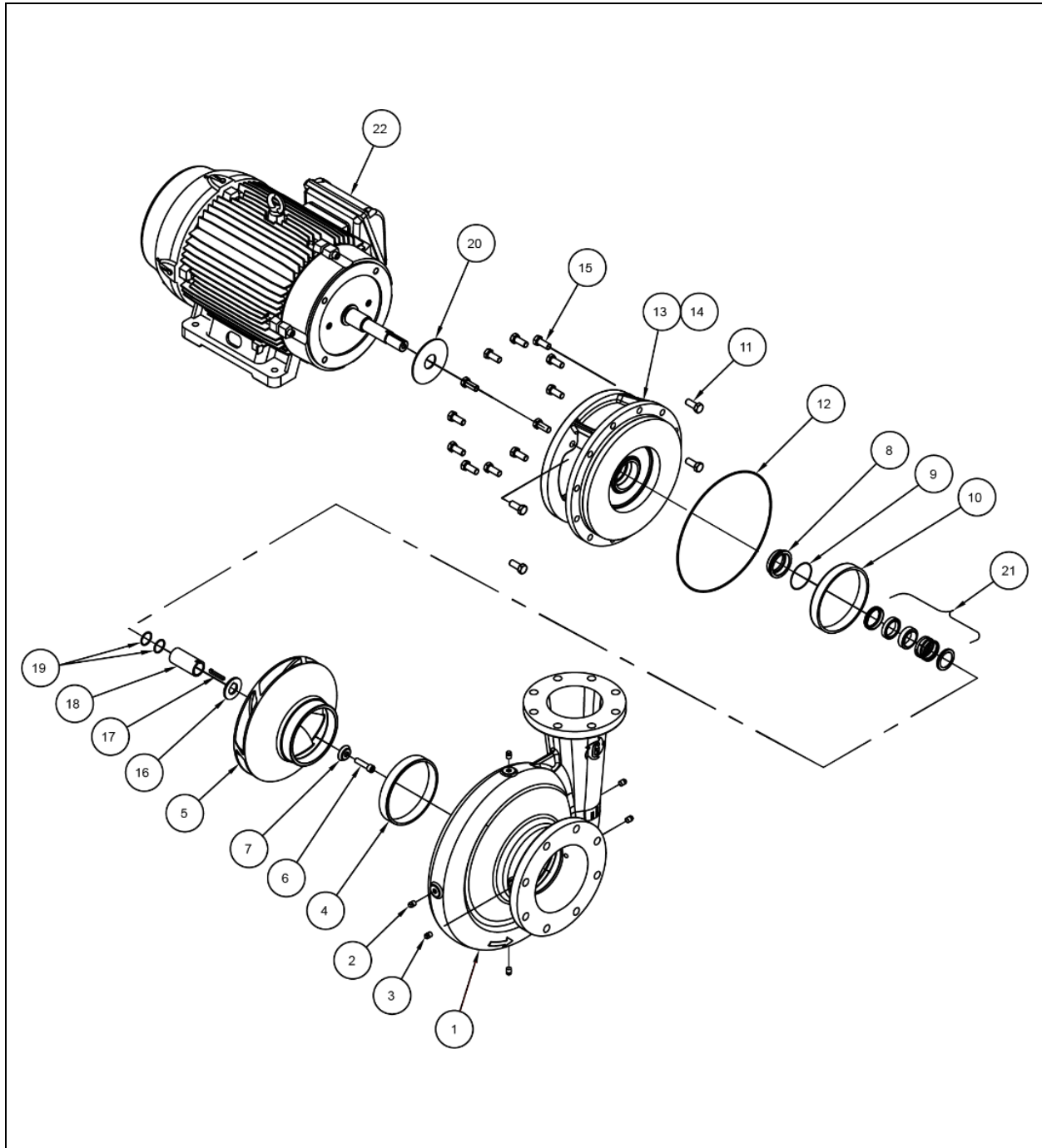
LG1832 REV. A

850 Series Model: 850CC/3X2-8/2P	PEI _{CL} 0.92	Impeller Diameter: 7.937 in.
850 Series Model: 850CC/3X2-8/4P	PEI _{CL} 0.90	Impeller Diameter: 7.937 in.

850 SERIES – Model 3X2-8



EXPLODED VIEW



LG1818 REV. A

850 Series Model: 850CC/3X2-8/2P	PEI _{CL} 0.92	Impeller Diameter: 7.937 in.
850 Series Model: 850CC/3X2-8/4P	PEI _{CL} 0.90	Impeller Diameter: 7.937 in.

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PARTS LISTING

Compatible Motor Frame Family			143JM, 145JM 182JM, 184JM (JM1)	213JM, 215JM (JM2)	254JM, 256JM (JM3)	Material of Construction
Item	Description	Qty.	P/N	P/N	P/N	
Case Kit						
1	Case Kit ^{1,3}	1	3078409K			Cast Iron, ASTM A48 Class 30
2	Case Plugs 1/4" MNPT	5	31005911			Steel
3	Case Plugs 1/2" MNPT					
4	Case Wear Ring	1	8015100			Bismuth Tin Bronze (Lead Free)
Impeller Kit						
5	Impeller, Only ⁴	1	5100200		5100400	Aluminum Bronze, ASTM B148
	Impeller, Kit ^{4,5}	1	5100200K		5100400K	Aluminum Bronze, ASTM B148
Back Pull Out Kit						
6	Impeller Bolt SHCS, 3/8-16 x 1.25 Lg	1	ALLEN37516X125U			Steel
	Impeller Bolt SHCS, 1/2-13 x 1.50 Lg	1			ALLEN50013X150U	Steel
7	Impeller Washer	1	14412209		14412308	300 Series Stainless Steel
8	Seal Adapter Kit ⁷					
9	Seal Adapter O-Ring					
10	Bracket Wear Ring					
11	Bracket/Motor Bolts HHCS, 3/8-16 x .88 Lg	4	14129324			Steel – Grade 5
	Bracket/Motor Bolts HHCS, 1/2-13 x 1.00 Lg	4		14178701		Steel – Grade 5
	Bracket/Motor Bolts HHCS, 1/2-13 x 1.75 Lg	4			14389803	Steel – Grade 5
12	Case/Bracket O-Ring -171 Buna	1	47017108			Buna-N
13	Bracket ^{2,3}	1	2159200K	2156909K	2137503K	Cast Iron, ASTM A48 Class 30
14	Bracket Plug 1/2" MNPT					
15	Case/Bracket Bolts HHCS, 3/8-16 x .75 Lg	8	S01C375750WA2A2			Steel – Grade 5
16	Impeller Spacer					
17	Impeller Key	1	14412407		14412506	Steel
18	Sleeve, Kit ⁶	1	8222400K		8243400K	Bismuth Tin Bronze (Lead Free)
19	Sleeve O-Ring -022 Buna	2	47002209			Buna-N
	Sleeve O-Ring -126 Buna	2			47012604	Buna-N
20	Deflector	1	22020408		22020507	Neoprene
21	Mechanical Seal	1	See mechanical seal list for P/N			
22	Motor	1	Contact factory for P/N			

LG1821 REV. B

¹Case Kit includes item 2, 3, 4, 12, and 15

²Bracket Kit includes item 11, 14 and 20

³Part is available with epoxy coating of interior or interior + exterior. Specified part number is for uncoated part, contact factory for part numbers.

⁴Part is available with epoxy coating. Append 'PC' to the indicated part number when referring to the coated part

⁵Impeller Kit includes item 6, 7, 10, 16 and 17

⁶Sleeve Kit includes item 19

⁷Seal Adapter Kit includes item 9

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GRS-17102-T-01

PAGE 5 OF 5



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