

# 850 SERIES – Model 3X2-8M



## Model 3X2-8M – Close-Coupled Configuration

### PERFORMANCE

850CC/3X2-8M/2P

Max. Flow Rate: 230 gpm

Max. Head: 219 ft.

Max. Working Temperature: 120° F

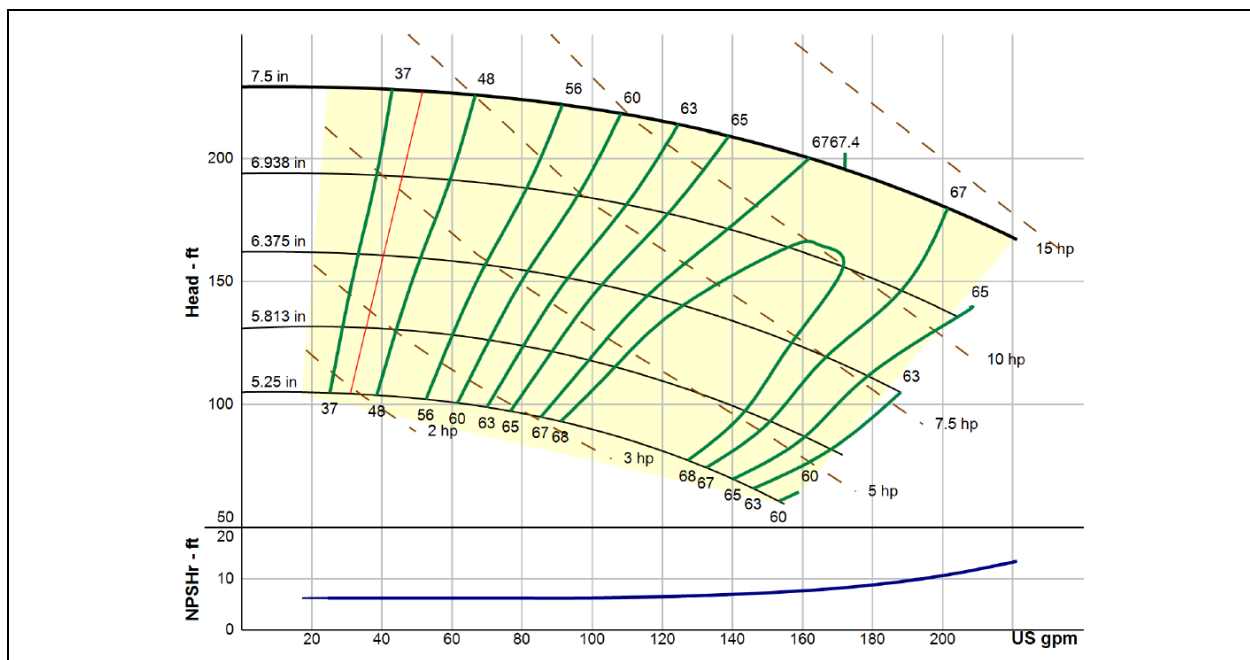
Max. Working Pressure: 175 psi

Max. Rated Speed: 3600 RPM

Max. Particle Size: 0.4" Diameter

Hydrotest Pressure: 263 psi

### PERFORMANCE CURVE – 850CC/3X2-8M/2P, 3600 RPM



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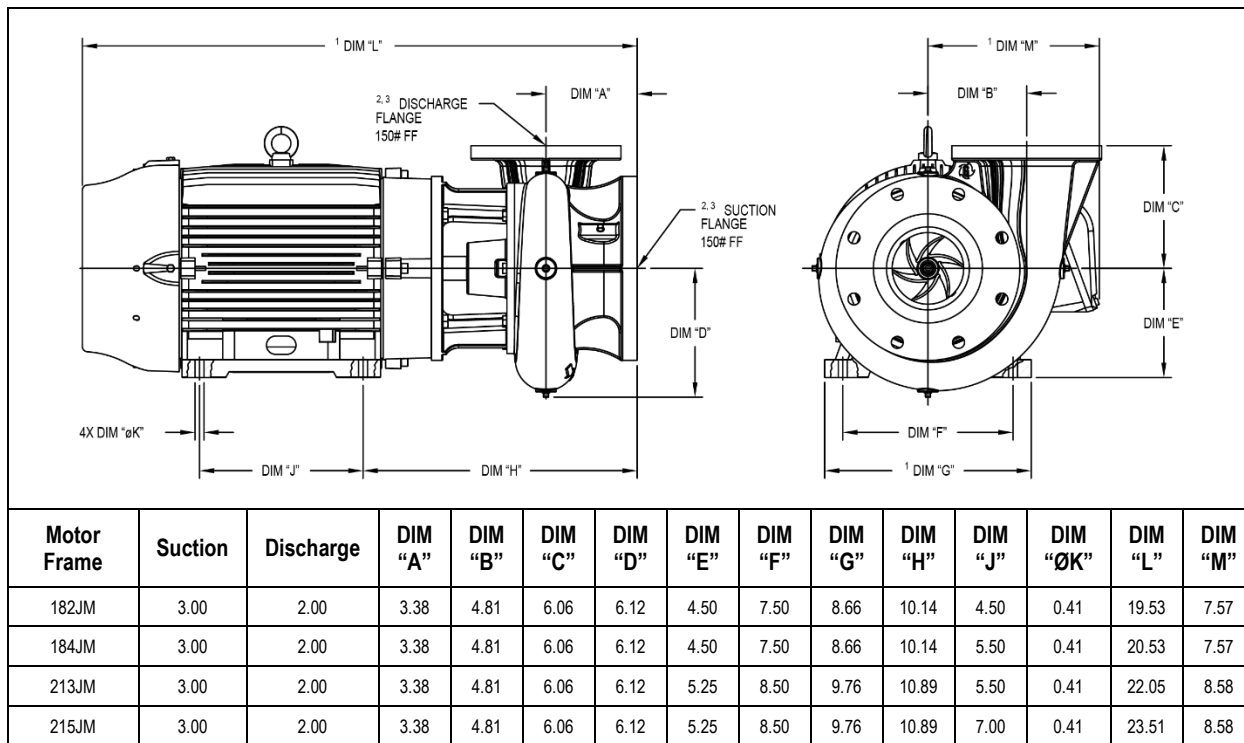
PEI<sub>CL</sub> 0.93

Impeller Diameter: 7.500 in.

# 850 SERIES – Model 3X2-8M



## DIMENSIONS (INCHES)



<sup>1</sup>Dimension may vary with motor model and manufacturer

<sup>2</sup>150# Flange is dimensionally identical to a 125# Flange

<sup>3</sup>Bolt holes straddle pump centerlines

LG1833 REV. A

850 Series Model: 850CC/3X2-8M/2P

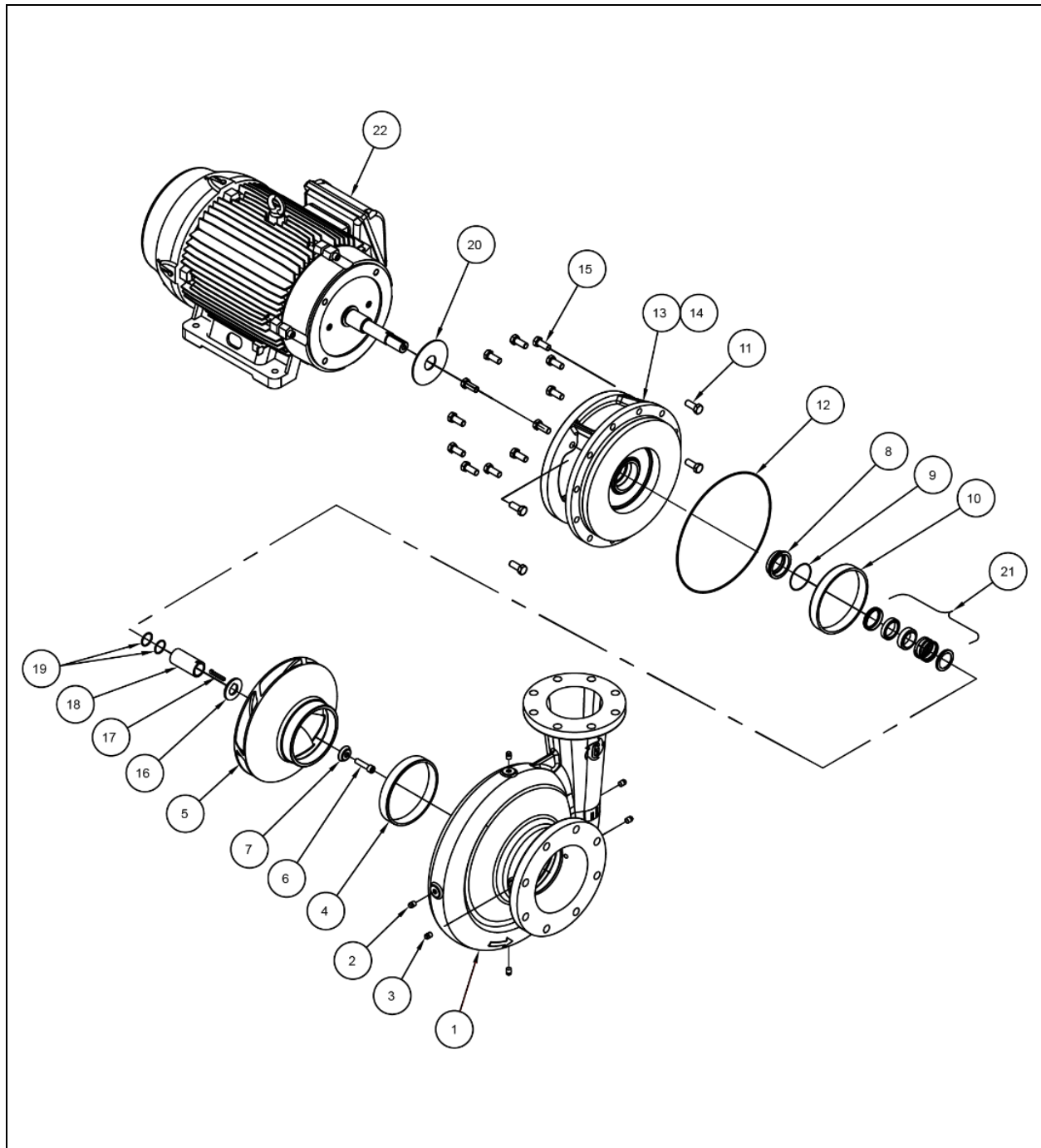
PEI<sub>CL</sub> 0.93

Impeller Diameter: 7.500 in.

# 850 SERIES – Model 3X2-8M



## EXPLODED VIEW



LG1818 REV. A

850 Series Model: 850CC/3X2-8M/2P

PEI<sub>CL</sub> 0.93

Impeller Diameter: 7.500 in.

# 850 SERIES – Model 3X2-8M



## PARTS LISTING

| Compatible Motor Frame Family |                                            |      | 143JM, 145JM, 182JM, 184JM (JM1) | 213JM, 215JM (JM2) | Material of Construction       |
|-------------------------------|--------------------------------------------|------|----------------------------------|--------------------|--------------------------------|
| Item                          | Description                                | Qty. | P/N                              | P/N                |                                |
| <b>Case Kit</b>               |                                            |      |                                  |                    |                                |
| 1                             | Case Kit <sup>1,3</sup>                    | 1    | 3079100K                         |                    | 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) |
| <b>Impeller Kit</b>           |                                            |      |                                  |                    |                                |
| 5                             | Impeller, Only <sup>4</sup>                | 1    | 5150200                          |                    | Aluminum Bronze, ASTM B148     |
|                               | Impeller, Kit <sup>4,5</sup>               | 1    | 5150200K                         |                    | Aluminum Bronze, ASTM B148     |
| <b>Back Pull Out Kit</b>      |                                            |      |                                  |                    |                                |
| 6                             | Impeller Bolt SHCS, 3/8-16 x 1.25 Lg       | 1    | ALLEN37516X125U                  |                    | Steel                          |
| 7                             | Impeller Washer                            | 1    | 14412209                         |                    | 300 Series Stainless Steel     |
| 8                             | Seal Adapter Kit <sup>7</sup>              |      |                                  |                    |                                |
| 9                             | Seal Adapter O-Ring -023 Buna              |      |                                  |                    |                                |
| 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                |
| 12                            | Case/Bracket O-Ring -171 Buna              | 1    | 47017108                         |                    | Buna-N                         |
| 13                            | Bracket <sup>2,3</sup>                     | 1    | 2159200K                         | 2156909K           | 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                         |                    | Steel                          |
| 18                            | Sleeve, Kit <sup>6</sup>                   | 1    | 8222400K                         |                    | Bismuth Tin Bronze (Lead Free) |
| 19                            | Sleeve O-Ring -022 Buna                    | 2    | 47002209                         |                    | Buna-N                         |
| 20                            | Deflector                                  | 1    | 22020408                         |                    | Neoprene                       |
| 21                            | Mechanical Seal                            | 1    | See mechanical seal list for P/N |                    |                                |
| 22                            | Motor                                      | 1    | Contact factory for P/N          |                    |                                |

LG1822 REV. B

<sup>1</sup>Case Kit includes item 2, 3, 4, 12, and 15

<sup>2</sup>Bracket Kit includes item 11, 14 and 20

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

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

<sup>5</sup>Impeller Kit includes item 6, 7, 10, 16 and 17

<sup>6</sup>Sleeve Kit includes item 19

<sup>7</sup>Seal Adapter Kit includes item 9

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**Impeller Diameter: 7.500 in.**

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