

## Pump Performance Datasheet

|                      |                         |                    |
|----------------------|-------------------------|--------------------|
| Customer :           | Quote Number / ID :     | 1471203            |
| Customer ref. / PO : | Model :                 | 50957 LC           |
| Tag Number : 001     | Stages :                | 1                  |
| Service :            | Based on curve number : | RC2023-SS Rev 0    |
| Quantity : 1         | Basic model number :    | -                  |
|                      | Date last saved :       | 09/19/2023 2:13 PM |

| Operating Conditions                            |                     | Liquid                          |                    |
|---|---------------------|---------------------------------|--------------------|
| Flow, rated                                     | : 1,335.2 USgpm     | Liquid type                     | : Cold Water       |
| Differential head / pressure, rated (requested) | : 71.85 ft          | Additional liquid description   | :                  |
| Differential head / pressure, rated (actual)    | : 71.85 ft          | Solids diameter, max            | : 0.00 in          |
| Suction pressure, rated / max                   | : 0.00 / 0.00 psi.g | Solids concentration, by volume | : 0.00 %           |
| NPSH available, rated                           | : Ample             | Temperature, max                | : 68.00 deg F      |
| Site Supply Frequency                           | : 60 Hz             | Fluid density, rated / max      | : 1.000 / 1.000 SG |

| Performance                |            | Material          |             |
|----------------------------|------------|-------------------|-------------|
| Speed, rated               | : 1760 rpm | Material selected | : Cast iron |
| Impeller diameter, rated   | : 9.60 in  |                   |             |
| Impeller diameter, maximum | : 9.60 in  |                   |             |
| Impeller diameter, minimum | : 7.50 in  |                   |             |

| Performance                            |                         | Pressure Data                      |               |
|--|-------------------------|------------------------------------|---------------|
| Efficiency                             | : 88.31 %               | Maximum working pressure           | : 38.46 psi.g |
| NPSH required / margin required        | : 11.03 / 0.00 ft       | Maximum allowable working pressure | : 175.0 psi.g |
| nq (imp. eye flow) / S (imp. eye flow) | : 50 / 206 Metric units | Maximum allowable suction pressure | : 175.0 psi.g |
| MCSF                                   | : 420.0 USgpm           | Hydrostatic test pressure          | : 263.0 psi.g |
| Head, maximum, rated diameter          | : 88.87 ft              |                                    |               |
| Head rise to shutoff                   | : 22.41 %               |                                    |               |

| Performance                      |                             | Driver & Power Data (@Max density) |                               |
|----------------------------------|-----------------------------|------------------------------------|-------------------------------|
| Flow, best eff. point            | : 1,335.2 USgpm             | Motor sizing specification         | : Max power (non-overloading) |
| Flow ratio, rated / BEP          | : 100.00 %                  | Margin over specification          | : 0.00 %                      |
| Diameter ratio (rated / max)     | : 100.00 %                  | Service factor                     | : 1.00                        |
| Head ratio (rated dia / max dia) | : 100.00 %                  | Power, hydraulic                   | : 24.22 hp                    |
| Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010] | : 1.00 / 1.00 / 1.00 / 1.00 | Rated power (based on duty point)  | : 27.43 hp                    |
| Selection status                 | : Acceptable                | Max power (non-overloading)        | : 28.38 hp                    |
|                                  |                             | Nameplate motor rating             | : 30.00 hp / 22.37 kW         |

| Energy Indexes |        |
|----------------|--------|
| PEI (CL)       | : 0.99 |
| ER (CL)        | : 1    |

