

## Pump Performance Datasheet

|                      |                                      |
|----------------------|--------------------------------------|
| Customer :           | Quote Number / ID :                  |
| Customer ref. / PO : | Model : 12501 LC                     |
| Tag Number : 001     | Stages : 1                           |
| Service :            | Based on curve number : RC1943 Rev 1 |
| Quantity : 1         | Basic model number : -               |
|                      | Date last saved : 09/18/2023 4:01 PM |

| Operating Conditions                            |                     | Liquid                          |                    |
|---|---------------------|---------------------------------|--------------------|
| Flow, rated                                     | : 30.01 USgpm       | Liquid type                     | : Cold Water       |
| Differential head / pressure, rated (requested) | : 45.94 ft          | Additional liquid description   | :                  |
| Differential head / pressure, rated (actual)    | : 45.94 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               | : 3450 rpm | Material selected | : Cast iron |
| Impeller diameter, rated   | : 4.37 in  |                   |             |
| Impeller diameter, maximum | : 5.11 in  |                   |             |
| Impeller diameter, minimum | : 3.38 in  |                   |             |

| Performance                            |                             | Pressure Data                      |               |
|--|-----------------------------|------------------------------------|---------------|
| Efficiency                             | : 49.50 %                   | Maximum working pressure           | : 28.64 psi.g |
| NPSH required / margin required        | : 8.43 / 0.00 ft            | Maximum allowable working pressure | : 175.0 psi.g |
| nq (imp. eye flow) / S (imp. eye flow) | : 17 / 77 Metric units      | Maximum allowable suction pressure | : 175.0 psi.g |
| MCSF                                   | : 15.14 USgpm               | Hydrostatic test pressure          | : 263.0 psi.g |
| Head, maximum, rated diameter          | : 66.19 ft                  |                                    |               |
| Head rise to shutoff                   | : 44.08 %                   |                                    |               |
| Flow, best eff. point                  | : 30.01 USgpm               |                                    |               |
| Flow ratio, rated / BEP                | : 100.01 %                  |                                    |               |
| Diameter ratio (rated / max)           | : 85.52 %                   |                                    |               |
| Head ratio (rated dia / max dia)       | : 63.82 %                   |                                    |               |
| Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]       | : 1.00 / 1.00 / 0.99 / 1.00 |                                    |               |
| Selection status                       | : Acceptable                |                                    |               |

| Energy Indexes |        | Driver & Power Data (@Max density) |                               |
|----------------|--------|------------------------------------|-------------------------------|
| PEI (CL)       | : 0.92 | Motor sizing specification         | : Max power (non-overloading) |
| ER (CL)        | : 8    | Margin over specification          | : 0.00 %                      |
|                |        | Service factor                     | : 1.00                        |
|                |        | Power, hydraulic                   | : 0.35 hp                     |
|                |        | Rated power (based on duty point)  | : 0.70 hp                     |
|                |        | Max power (non-overloading)        | : 0.75 hp                     |
|                |        | Nameplate motor rating             | : 0.75 hp / 0.56 kW           |

