# Pump Performance Datasheet

| | | | |
|---|---|---|---|
| Customer | : D&T PROYECTOS | Quote number | : NM2608409 |
| Customer reference | : | Size | : NF-E 060-050-125 UL |
| Item number | : 1-] Electrical motor driven pumpset UL/FM | Stages | : 1 |
| Service | : 1250 USGPM@171PSI (250HP/3550RPM) | Based on curve number | : FLBS 150-125-315-3550 Rev 02/02-23 |
| Quantity | : 1 | Date last saved | : 19 Jun 2026 11:02 AM |

## Operating Conditions

| | |
|---|---|
| Flow, rated | : 1,250.0 (1,875.0) USgpm |
| Differential head / pressure, rated (requested) | : 171.0 (143.6) psi |
| Differential head / pressure, rated (actual) | : 171.7 psi |
| Suction pressure, rated / max | : 0.00 / 0.00 psi.g |
| NPSH available, rated | : Ample |
| Site Supply Frequency | : 60 Hz |

## Performance

| | |
|---|---|
| Speed criteria | : Synchronous |
| Speed, rated | : 3550 rpm |
| Impeller diameter, rated | : 11.1 in |
| Impeller diameter, maximum | : 12.0 in |
| Impeller diameter, minimum | : 10.6 in |
| Efficiency | : 63.68 (67.98) % |
| NPSH required / margin required | : - (-) / 0.00 ft |
| nq (imp. eye flow) / S (imp. eye flow) | : 32 / - Metric units |
| MCSF | : - |
| Head, maximum, rated diameter | : 186.5 psi |
| Head rise to shutoff | : 8.63 (29.94) % |
| Flow, best eff. point | : 1,725.8 USgpm |
| Flow ratio, rated / BEP | : 72.43 (108.65) % |
| Diameter ratio (rated / max) | : 92.46 % |
| Head ratio (rated dia / max dia) | : 79.09 % |
| Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010] | : 1.00 / 1.00 / 1.00 / 1.00 |
| Selection status | : Acceptable |

## Liquid

| | |
|---|---|
| Liquid type | : Water |
| Additional liquid description | : |
| Solids diameter, max | : 0.0 in |
| Solids concentration, by volume | : 0.00 % |
| Temperature, max | : 68.00 deg F |
| Fluid density, rated / max | : 1.000 / 1.000 SG |
| Viscosity, rated | : 1.00 cP |
| Vapor pressure, rated | : 0.00 psi.a |

## Material

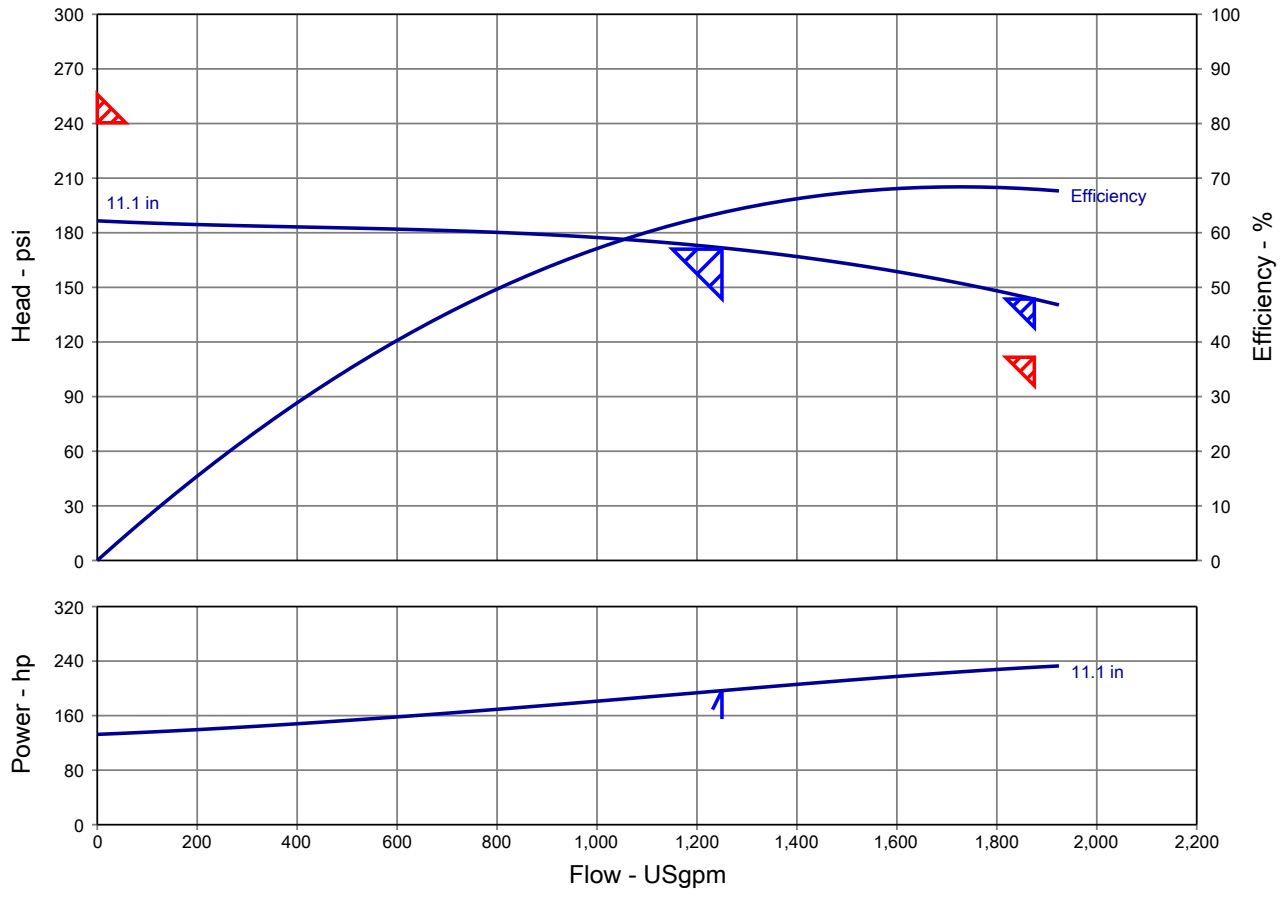
| | |
|---|---|
| Material selected | : Standard |

## Pressure Data

| | |
|---|---|
| Maximum working pressure | : 186.5 psi.g |
| Maximum allowable working pressure | : N/A |
| Maximum allowable suction pressure | : N/A |
| Hydrostatic test pressure | : N/A |

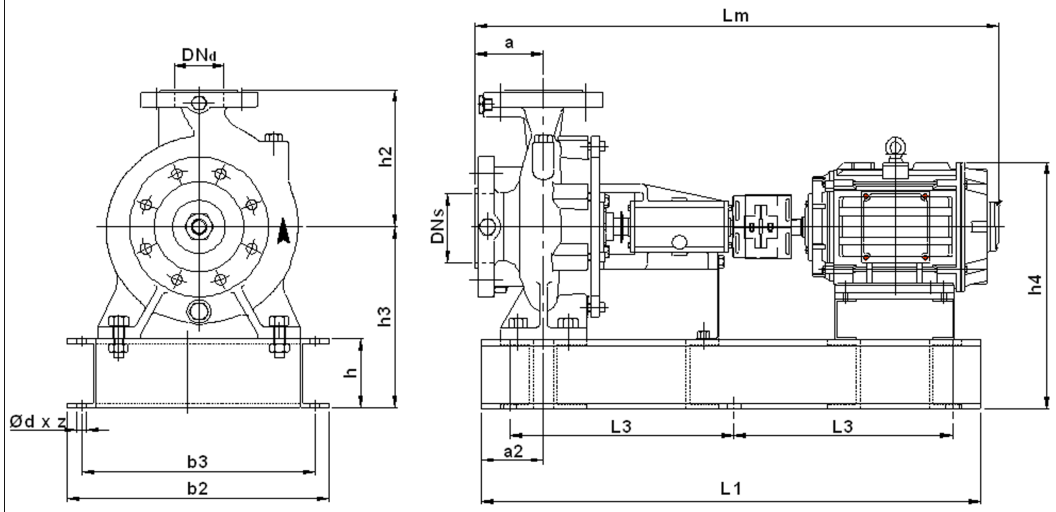
## Driver & Power Data (@Max density)

| | |
|---|---|
| Driver sizing specification | : Maximum power |
| Margin over specification | : 0.00 % |
| Service factor | : 1.15 (used) |
| Power, hydraulic | : 125 (157) hp |
| Power, rated | : 197 (231) hp |
| Power, maximum, rated diameter | : 233 hp |
| Minimum recommended motor rating | : 250 hp / 186 kW |



# General Arrangement Drawing

| | | | |
|---|---|---|---|
| Customer: | D&T PROYECTOS | Quote number: | NM2608409 |
| Customer reference: | | Size: | NF-E 060-050-125 UL |
| Item number: | 1-] Electrical motor driven pumpset UL/FM | Stages: | 1 |
| Service: | 1250 USGPM@171PSI (250HP/3550RPM) | Quoted by (SO / SE): | sales@northam-inc.com_26 |
| Quantity: | 1 | Date last saved: | 19 Jun 2026 11:02 AM |




**Notes:**

All dimensions are in inches unless otherwise noted.

All weights are in lb

All volumes are in ft3

| Operating Conditions | | | |
|---|---|---|---|
| Flow: | 1,250.0 USgpm | Liquid temperature: | 68.00 deg F |
| Head: | 171.0 psi | Fluid density: | 1.000 SG |
| Liquid type: | Water | Viscosity: | 1.00 cP |
| **Pump Data** | | | |
| Pump construction: | Fire Pump - Motor Driven | Seal material: | Gland Packing |
| Casing material: | Ductile Iron 65-45-12 | Wear ring material: | Bronze |
| Impeller material: | Bronze LTB2 | Counter flange material: | None |
| Shaft material: | S.S AISI 420 | Base frame & Coupling: | Included |
| **Motor Data** | | | |
| - | - | Frequency: | 60 Hz |
| HP/kW: | 250 hp | Mounting / Enclosure: | NEMA / ODP |
| RPM: | 3550 rpm | Driver type: | Motor |
| Phase: | 3 | S.F: | 1.15 |
| Voltage: | 380V | Driver rating: | 250 HP |
| **Pipework Connecion** | | | |
| Casing connection: | Without Suction & Discharge Flanges | | |
| Connection type: | Welded | Flange rating: | Class-300 |
| **Main Accessories** | | | |
| Diesel tank with Accs.: | - | Air-relief valve: | - |
| Battery / Qty: | - | Casing relief valve: | Included |
| Pump controller: | 250 HP - STAR-DELTA - Tornatech | Pressure gauges: | Included |
| **Certification Content** | | | |
| Project name/Location: | | | |
| Consulting Engineer: | | | |
| Drawn by: | K P | Approved by: | N P |
| Checked by: | P M | Revision: | 00 |

**Dimensions and Weights**

| Frame | Suction Flange SIze (DNs) | Discharge Flange Size (DNd) | a | a2 | f | k1 | k2 | v | h2 | h3 | h4 | Lm | h | b2 | b3 | L1 | L2 | L3 | ød | z | Net Weight | Gross Weight | Volume |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 449TS | 5.9 | 4.9 | 5.5 | 4.5 | - | - | - | - | 14.0 | 15.9 | 27.1 | 74.0 | 4.9 | 27.4 | 24.9 | 68.7 | - | 31.4 | 0.9 | 6 nos. | 2,471.4 | 2,965.7 | 59.810 |