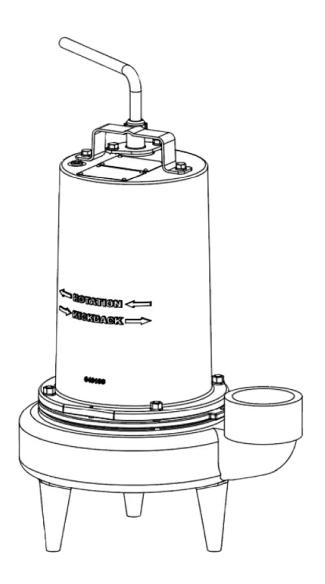




3SE-HD - 2 HP

21/2" Spherical Solids Handling - Heavy Duty, Single Seal



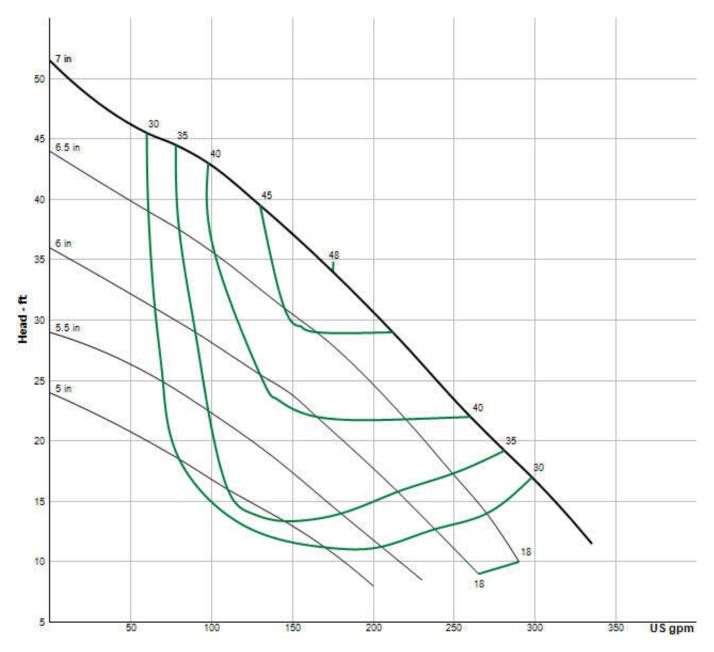


Specifications

| SPEED: 1750 RPM (Nominal) LIQUID TEMPERATURE: 104°F (40°C) Continuous MOTOR HOUSING: Cast iron ASTM A-48, class 30 Design: 2 Vane, open, with pump out vanes on back side. Dynamically balanced, ISO G6.3 IMPELLER: Material: Cast iron ASTM A-48, class 30 CORD ENTRY: 30 ft. (9.1m) Cord. Quick connect custom molded for sealing and strain relief SINGLE PHASE: Permanent split capacitor (PSC) includes overload protection in motor THREE PHASE: 200-230/460 is Tri-Voltage. Requires overload protection to be included in control panel MOTOR: Design:NEMA L -single phase, NEMA B -three phase torque curve, oil filled, squirrel cage induction insulation:Class B Design: Single row, ball Lubrication: Oil Load: Radial Design: Single row, ball Lubrication: Oil Load: Radial & Thrust VOLUTE: Cast iron ASTM A-48, class 30 SHAFT: 416 Stainless steel SQUARE RINGS: Buna-N HARDWARE: 300 Series stainless steel PAINT: Air dry enamel SEAL PLATE Cast iron ASTM A-48, class 30 SEAL KIT P/N: 130182 SERVICE KIT P/N: 130209 | DISCHARGE: | 3" NPT, Female, vertical |
|--|---------------------|--|
| MOTOR HOUSING: Cast iron ASTM A-48, class 30 Design: 2 Vane, open, with pump out vanes on back side. Dynamically balanced, ISO G6.3 | SPEED: | 1750 RPM (Nominal) |
| Design: 2 Vane, open, with pump out vanes on back side. Dynamically balanced, ISO G6.3 Material: Cast iron ASTM A-48, class 30 CORD ENTRY: 30 ft. (9.1m) Cord. Quick connect custom molded for sealing and strain relief SINGLE PHASE: Permanent split capacitor (PSC) includes overload protection in motor THREE PHASE: 200-230/460 is Tri-Voltage. Requires overload protection to be included in control panel Design:NEMAL - single phase, NEMA B - three phase torque curve, oil filled, squirrel cage induction Insulation:Class B Design: Single row, ball Lubrication: Oil Load: Radial Lubrication: Oil Load: Radial & Thrust | LIQUID TEMPERATURE: | 104°F (40°C) Continuous |
| IMPELLER: • Material: Cast iron ASTM A-48, class 30 CORD ENTRY: 30 ft. (9.1m) Cord. Quick connect custom molded for sealing and strain relief SINGLE PHASE: Permanent split capacitor (PSC) includes overload protection in motor THREE PHASE: 200-230/460 is Tri-Voltage. Requires overload protection to be included in control panel • Design: NEMA L - single phase, NEMA B - three phase torque curve, oil filled, squirrel cage induction Insulation: Class B • Design: Single row, ball • Lubrication: Oil • Load: Radial LOWER BEARING: • Design: Single row, ball • Lubrication: Oil • Load: Radial & Thrust VOLUTE: Cast iron ASTM A-48, class 30 SHAFT: 416 Stainless steel SQUARE RINGS: Buna-N HARDWARE: 300 Series stainless steel PAINT: Air dry enamel SEAL PLATE Cast iron ASTM A-48, class 30 SEAL KIT P/N: 130182 | MOTOR HOUSING: | Cast iron ASTM A-48, class 30 |
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| THREE PHASE: 200-230/460 is Tri-Voltage. Requires overload protection to be included in control panel Design:NEMA L -single phase, NEMA B -three phase torque curve, oil filled, squirrel cage induction Insulation:Class B Design: Single row, ball Lubrication: Oil Load: Radial Design: Single row, ball Lower Bearing: Design: Single row, ball Lower Bearing: Design: Single row, ball Lower Bearing: Cast iron ASTM A-48, class 30 SHAFT: 416 Stainless steel SQUARE RINGS: Buna-N HARDWARE: 300 Series stainless steel PAINT: Air dry enamel SEAL PLATE Cast iron ASTM A-48, class 30 SEAL KIT P/N: 130182 | CORD ENTRY: | 30 ft. (9.1m) Cord. Quick connect custom molded for sealing and strain relief |
| Design: NEMA L -single phase, NEMA B -three phase torque curve, oil filled, squirrel cage induction Insulation: Class B Design: Single row, ball Lubrication: Oil Load: Radial Design: Single row, ball Lower Bearing: Design: Single row, ball Lower Bearing: Lower Bearing: Design: Single row, ball Lubrication: Oil Load: Radial & Thrust VOLUTE: Cast iron ASTM A-48, class 30 SHAFT: 416 Stainless steel SQUARE RINGS: Buna-N HARDWARE: 300 Series stainless steel PAINT: Air dry enamel SEAL PLATE Cast iron ASTM A-48, class 30 SEAL KIT P/N: 130182 | SINGLE PHASE: | Permanent split capacitor (PSC) includes overload protection in motor |
| MOTOR: Insulation:Class B Design: Single row, ball Lubrication: Oil Load: Radial Design: Single row, ball Lower Bearing: Design: Single row, ball Lower Bearing: Lower Bearing: Load: Radial & Thrust VOLUTE: Cast iron ASTM A-48, class 30 SHAFT: 416 Stainless steel SQUARE RINGS: Buna-N HARDWARE: 300 Series stainless steel PAINT: Air dry enamel SEAL PLATE Cast iron ASTM A-48, class 30 SEAL KIT P/N: 130182 | THREE PHASE: | 200-230/460 is Tri-Voltage. Requires overload protection to be included in control panel |
| UPPER BEARING: Lubrication: Oil Load: Radial Design: Single row, ball Lubrication: Oil Lubrication: Oil Load: Radial & Thrust VOLUTE: Cast iron ASTM A-48, class 30 SHAFT: 416 Stainless steel SQUARE RINGS: Buna-N HARDWARE: 300 Series stainless steel PAINT: Air dry enamel SEAL PLATE Cast iron ASTM A-48, class 30 SEAL KIT P/N: 130182 | MOTOR: | 200.g.m (2 migro pridos, (12 mi ro pridos torque surve, en inica, equiror sage madeller |
| LOWER BEARING: Lubrication: Oil Load: Radial & Thrust VOLUTE: Cast iron ASTM A-48, class 30 SHAFT: 416 Stainless steel SQUARE RINGS: Buna-N HARDWARE: 300 Series stainless steel PAINT: Air dry enamel SEAL PLATE Cast iron ASTM A-48, class 30 SEAL KIT P/N: 130182 | UPPER BEARING: | Lubrication: Oil |
| SHAFT: 416 Stainless steel SQUARE RINGS: Buna-N HARDWARE: 300 Series stainless steel PAINT: Air dry enamel SEAL PLATE Cast iron ASTM A-48, class 30 SEAL KIT P/N: 130182 | LOWER BEARING: | Lubrication: Oil |
| SQUARE RINGS: Buna-N HARDWARE: 300 Series stainless steel PAINT: Air dry enamel SEAL PLATE Cast iron ASTM A-48, class 30 SEAL KIT P/N: 130182 | VOLUTE: | Cast iron ASTM A-48, class 30 |
| HARDWARE: 300 Series stainless steel PAINT: Air dry enamel SEAL PLATE Cast iron ASTM A-48, class 30 SEAL KIT P/N: 130182 | SHAFT: | 416 Stainless steel |
| PAINT: Air dry enamel SEAL PLATE Cast iron ASTM A-48, class 30 SEAL KIT P/N: 130182 | SQUARE RINGS: | Buna-N |
| SEAL PLATE Cast iron ASTM A-48, class 30 SEAL KIT P/N: 130182 | HARDWARE: | 300 Series stainless steel |
| SEAL KIT P/N: 130182 | PAINT: | Air dry enamel |
| | SEAL PLATE | Cast iron ASTM A-48, class 30 |
| SERVICE KIT P/N: 130209 | SEAL KIT P/N: | 130182 |
| | SERVICE KIT P/N: | 130209 |

BARNES°

Curves



| Pump HP Impeller Dia mm (in.) | | Impeller Dia mm (in.) |
|-------------------------------|-----|-----------------------|
| | 2 | 178 (7.00) |
| | 1.5 | 165 (6.50) |



Model Information

| PUMP MODEL NUMBER | 3SE2024HD | 3SE2094HD | 3SE2044HD |
|--------------------|------------|------------|------------|
| PART NUMBER | 133466 | 133467 | 133468 |
| HP | 2 | 2 | 2 |
| VOLTAGE/PHASE | 230/1 | 200-230/3 | 460/3 |
| HZ | 60 | 60 | 60 |
| RPM (NOMINAL) | 1750 | 1750 | 1750 |
| NEMA START CODE | В | J/M | M |
| FULL LOAD AMPS | 14.5 | 15.4/14.0 | 7.0 |
| LOCKED ROTOR AMPS | 29.0 | 44.1/50.8 | 25.4 |
| CORD SIZE | 12/3 | 12/4 | 14/4 |
| CORD TYPE | SOOW/SOW | SOOW/SOW | SOOW/SOW |
| CORD O.D INCH (MM) | .61 (15.5) | .68 (17.4) | .57 (14.5) |
| WEIGHT (LBS) | 190 | 190 | 190 |



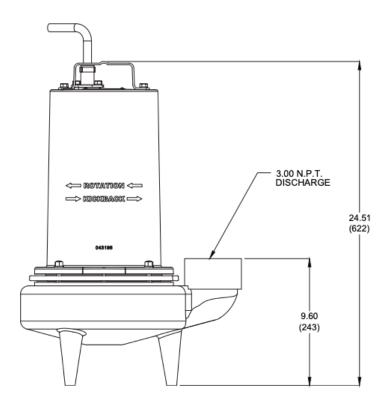
IMPORTANT

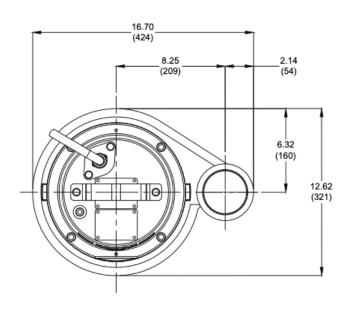
1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.

2.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSIMFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

BARNES°

Drawings







All dimensions are in inches (mm)