

**SUNFLO APPLICATION DATA SHEET**

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| Customer/Purchaser |  |  Quote No.: 144260 File Reference No.:By: Cory Wittwer Rev.: 1 Date: 4/13/16 |
| Name: COSCO ShipyardAddress: |
|  Service: Inquiry No.: Item No: Quantity: 1 Model No.: FMP3-YJF-50 Pump Type: P-3000 Serial No.: Purchase Order No.: |
| Owner/User |  |
|  |
| OPERATING CONDITIONS | RATED PERFORMANCE |
| Liquid: Sea WaterFlow (Design): 45 m^3/hr Temp. (Normal): 32 C Temp. (Max): 32C Suct. Pr. (Max): 0.0 Suct. Pr. (Rated): 0.0 Spec. Gravity: 1.0 Vapor Press.: 1.0 Diff. Press.: 78.655 Bar Diff. Head: 800m  Viscosity: 1.0 cP NPSH Avail.:Disch. Press. (g): 78.655 Bar Corr/Eros: | NPSH req: 7m Number of Stages: 1 RPM (Output): 14800Efficiency Design: 58.1 %Power Design: 170 KWMax Power, Rated Imp.: 200 KWShutoff Head: 835 mMin. Cont. Flow: 31 m^3/hrSeal Cavity Press.:Buff/Flush Press. (g):Specific Speed:Flow @ BEP: 53 m^3/hr |
| CONSTRUCTION |
| Casing Mounting: Frame Mounted Split: Radial Type: Diffuser Seal Flush Ports: ½” -NPT Seal Drain Ports: ½” NPT Port (Qty 1) Impeller Design Type: Open |
| AUXILIARIES |
| NOZZLES | SIZE | TYPE | FACING | POSITION |  Lube Oil Heat Exchanger: YES Shell & Tube Material: 316 SS Size: 5x24 2-pass Water Cooling Flow: 5 gpm |
| Suction | 3” | 600 lbs | RF (ANSI) | END |
| Discharge | 2” | 900 lbs | RF (ANSI) | Horizontal Top |
|  Impeller Dia. Design: 131 mm Max: 134.62 mm Inducer: Yes Diff. Dia.: 14.68 mm Mechanical Seal: Single Flush Plan: 11 Gearbox Seal: Mechanical  Base Plate: Yes Coupling: Rexnord Guard: YesHigh Speed Bearing Type: Journal Bearing Lubr: Pressurized Frame Mount Bearing Type: Lubr:  Painting: Standard Paint System |
|  Seal Flush Heat Exchanger: None Material: Size:Water Cooling Flow: GPM Seal Flush Flow: |
| By-pass Orifice:Flow: GPM |
| MATERIALS |
|  Pump Casing: 316 Stainless Steel Seal Housing: 316 Stainless Steel Impeller: 2205 Duplex Inducer: 2205 Duplex HS Shaft: 4140 Steel Input Shaft: 4140 Steel Pinion Gear: 8620 H Steel Drive Gear: 8620H Steel Gearbox Housing: Carbon Steel Input Frame: Carbon Steel Shaft Sleeve: 316 Stainless Steel O-Rings: UA - NitrileSeal Stationary Face: Standard – Carbon (RP) Seal Rot. Face: RJ – Tungsten Carbide w/ Nickel  | Discharge Orifice:Diameter: in |
| Auxiliary Piping Required? NoBy Sundyne? NoAuxiliary Lube Pump Required? No |
| TEST REQUIREMENTS |
| Shop Test | Required | Witnessed | Certified |
| Performance | Yes | No | Yes |
| NPSH | No | No | No |
| MOTOR DRIVE By Sundyne? NO | Hydro (Case) | Yes | No | Yes |
|  Power: 200 KW Service Factor: 1.0 RPM: 3000 Frame: Manufacturer: ABB Enclosure: IP 55 Insulation: Volt/PH.Cyc.: 415/3/50 Efficiency: Full Load Amps: Locked Rotor Amps: Bearings: Lubrication: Area Classification: Motor Remarks: | Other:Hydrostatic Test Press. (g): Max Case Working Press. (g):@ |
| WEIGHTS (lbs) |
|  Pump Unit: lbs Driver: lbs Baseplate: lbs Packing: lbs Total: lbs |
| REMARKS: |