

**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 Shipyard  Address: | |
| 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 Water  Flow (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): 14800  Efficiency Design: 58.1 %  Power Design: 170 KW  Max Power, Rated Imp.: 200 KW  Shutoff Head: 835 m  Min. Cont. Flow: 31 m^3/hr  Seal 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: Yes  High 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 - Nitrile  Seal Stationary Face: Standard – Carbon (RP) Seal Rot. Face: RJ – Tungsten Carbide w/ Nickel | | | | | | Discharge Orifice:  Diameter: in | | | |
| Auxiliary Piping Required? No  By Sundyne? No  Auxiliary 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: | | | | | | | | | |