

3SDX

Explosion Proof Submersible Sewage Pump

Class 1, Groups C and D Hazardous Locations

APPLICATION DATA

| | |
|-----------------------------------|---|
| Maximum Solid Size | 2½" |
| Minimum Casing Thickness | 5/16" |
| Casing Corrosion Allowance | 1/8" |
| Maximum Working Pressure | 100 PSI |
| Maximum Submergence | 200' depth |
| Maximum Environmental Temperature | 40° C or 104° F ambient conditions |
| Maximum Starts Per Hour | 10 evenly distributed starts/stops per hour |

CONSTRUCTION DETAILS

| | |
|---------------------------------|--|
| Power Cable – Type | 8/4,10/4, 12/4, 14/4 SOW, SOOW |
| Control / Sensor Cable / Type | 18/5 SOW |
| Cable Cap Assembly | Leads have a Buna grommet and are encapsulated in epoxy for a positive seal |
| Power and Control Cable Lengths | 25' standard, 50' optional |
| Motor Enclosure | Cast Iron, ASTM A-48, Class 30 (minimum) |
| Motor Shaft | 416 Stainless Steel |
| Motor Design | NEMA Design B – Air-filled |
| Motor Insulation | Class "F" , 155°C (310° F) insulation |
| Motor Thermal Protection | Two (2) normally closed on-winding thermostats open at 153° C (307° F), automatic reset closes at 140° C (284° F) |
| Motor Overload Protection | Single and three phase units require Class 10, quick-trip, ambient compensated overloads in the control panel |
| Motor Moisture Protection | Dual moisture sensing probes in an oil-filled seal chamber between inner and outer seals - Connect to a relay in control panel |
| Casing | Cast Iron, ASTM A-48, Class 30 |
| Impeller | Cast Iron, ASTM A-48, Class 30 or Optional Cast Bronze ASTM B584 C87600 |
| Impeller Type | Semi-open, non-clog with pump out vanes on back shroud, computer dynamically balanced |

STANDARD PARTS

| | | |
|-----------------------------|-------|--|
| Ball Bearings | | Greased for life, single row, upper and lower ball bearings, L10 rating life of 17,500 hours |
| Mechanical Seals – Standard | Upper | Carbon – rotary / ceramic – stationary / Buna elastomers / 304SS metal parts |
| | Lower | Carbon – rotary / ceramic – stationary / Buna elastomers / 304SS metal parts |
| Mechanical Seals – Optional | Lower | Silicon carbide – rotary / silicon carbide – stationary / Viton / 304SS |
| | Lower | Silicon carbide – rotary / tungsten carbide – stationary / Viton / 304SS |
| Standard O-rings | | Buna-N (nitrile) |
| External Hardware | | Stainless steel |

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MOTOR DATA - 60 HERTZ - 1750 RPM - CLASS 1 - GROUPS C AND D

| Pump Order Number | HP | RPM | Phase | Volts | 1.15 SF Amps | Locked Rotor Amps | Full Load Amps | KVA Code | Full Load Motor Efficiency | Resistance | | Motor Frame Size |
|-------------------|----|------|-------|-------|--------------|-------------------|----------------|----------|----------------------------|------------|-----------|------------------|
| | | | | | | | | | | Start | Line-Line | |
| 3SDX12F1KC | 1½ | 1750 | 1 | 230 | 11.6 | 50.0 | 10.6 | M | 62.5% | 6.8 | 1.2 | 180TY |
| 3SDX12F2KC | | | 3 | 200 | 5.9 | 42.0 | 5.3 | L | | — | 1.7 | |
| 3SDX12F3KC | | | | 230 | 5.1 | 36.6 | 4.6 | | | — | 2.3 | |
| 3SDX12F4KC | | | | 460 | 2.6 | 18.3 | 2.3 | | | — | 9.1 | |
| 3SDX12F5KC | | | | 575 | 2.0 | 14.6 | 1.8 | | | — | 14.2 | |
| 3SDX12G1JC | 2 | | | 1 | 230 | 15.6 | 69.0 | | 14.0 | K | 59.2% | |
| 3SDX12G2JC | | | 3 | 200 | 7.6 | 50.6 | 6.8 | 73.5% | — | | 1.6 | |
| 3SDX12G3JC | | | | 230 | 6.6 | 44.0 | 5.9 | | — | | 2.1 | |
| 3SDX12G4JC | | | | 460 | 3.3 | 22.0 | 2.9 | | — | | 8.3 | |
| 3SDX12G5JC | | | | 575 | 2.6 | 17.6 | 2.8 | | — | | 13.0 | |
| 3SDX12H1HC | 3 | | | 1 | 230 | 22.1 | 97.0 | | 20.0 | J | 64.7% | |
| 3SDX12H2HC | | | 3 | 200 | 11.3 | 71.5 | 10.1 | 78.1% | — | | 0.9 | |
| 3SDX12H3HC | | | | 230 | 9.8 | 62.1 | 8.8 | | — | | 1.2 | |
| 3SDX12H4HC | | | | 460 | 4.9 | 31.1 | 4.4 | | — | | 4.7 | |
| 3SDX12H5HC | | | | 575 | 3.9 | 24.9 | 3.5 | | — | | 7.3 | |
| 3SDX12J2GC | 5 | 3 | | 200 | 18.3 | 92.1 | 17.0 | | H | 80.2% | — | 0.7 |
| 3SDX12J3GC | | | 230 | 15.9 | 80.1 | 13.9 | — | 0.9 | | | | |
| 3SDX12J4GC | | | 460 | 8.0 | 40.0 | 7.0 | — | 3.7 | | | | |
| 3SDX12J5GC | | | 575 | 6.4 | 32.0 | 5.6 | — | 5.8 | | | | |
| 3SDX12K2FC | 7½ | 3 | 200 | 26.7 | 144.0 | 23.3 | H | 82.7% | — | 0.4 | | |
| 3SDX12K3FC | | | 230 | 23.1 | 125.0 | 20.2 | | | — | 0.5 | | |
| 3SDX12K4FC | | | 460 | 11.6 | 62.5 | 10.1 | | | — | 2.1 | | |
| 3SDX12K5FC | | | 575 | 9.2 | 50.0 | 8.1 | | | — | 3.3 | | |

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