

| Materials and Technical Da           |                           |   | ata  |                                   |           | Sec. 133           | PAGE 420.1      |
|--------------------------------------|---------------------------|---|--|-----------------------------------|-----------|--------------------|-----------------|
|                                      |                           |   |  |                                   |           | Sec. 155           | AUGUST 2020     |
|                                      |                           |   |  | PUMP DETA                         |           |                    |                 |
| Pump Model                           |                           |   | SF8B & SF8B-X  |                                   |           |                    |                 |
| Agency Approvals                     |                           |   | Consult Factory  |                                   |           |                    |                 |
| Discharge Flange                     |                           |   | 8" ANSI W/ Flat Face   |                                   |           |                    |                 |
| Impeller Type/Material               |                           |   | Two Vane Enclosed / Ductile Iron   |                                   |           |                    |                 |
| Wear Ring Material                   |                           |   | Ductile Iron   |                                   |           |                    |                 |
| Spherical Solids Handling            |                           |   | 3" (76 mm) Non-Deformable Diameter   |                                   |           |                    |                 |
| Motor Housing (Including Seal        |                           |   | Gray Iron 30   |                                   |           |                    |                 |
| Plate and Intermediate)              |                           |   |  |                                   |           |                    |                 |
| Pump Casing                          |                           |   |  |                                   |           |                    |                 |
| Motor Shaft<br>O-Rings               |                           |   | 17–4 PH Stainless Steel<br>Buna-N and Fluorocarbon (DuPont Viton® or Equivalent)                               |                                   |           |                    |                 |
| Dec                                  |                           |   |  |                                   |           |                    | livalent)       |
| Bearings: Upper                      |                           |   | Single Row Ball/Permanent Lubrication  |                                   |           |                    |                 |
| Type/Lubrication Lower               |                           | Double Row Ball/Permanent Lubrication   |  |                                   |           |                    |                 |
| External Hardware                    |                           |   | 303/304 Stainless Steel  |                                   |           |                    |                 |
| External Surface Protection          |                           |   | Epoxy Paint  |                                   |           |                    |                 |
| Seal Type                            |                           | Tandem, Mechanical, Oil Lubricated Upper, Self-Lubricated Lower<br>Carbon/Ni-Resist |  |                                   |           |                    |                 |
|                                      | Sealing Faces: Upper      |   | Carbon/NI-Resist<br>Silicon Carbide/Silicon Carbide  |                                   |           |                    |                 |
| Rotating                             | Rotating/Stationary Lower |   | ·  |                                   |           |                    |                 |
| Seal Elastomers                      |                           |   | Buna-N Upper, Fluorocarbon (DuPont Viton® or Equivalent) Lower   |                                   |           |                    |                 |
| Max. Liquid Temperature              |                           |   | 104°F (40°C)<br>MOTOR DETAILS  |                                   |           |                    |                 |
|                                      | Oracad                    |   |  | MOTOR DET                         |           |                    |                 |
| Speed Motor Desire                   |                           |   | 60 Hz, 1750 RPM  |                                   |           |                    |                 |
| Motor Design                         |                           |   | Inverter-Duty Rated, Air-Filled Enclosure, Squirrel Cage, Induction Start<br>NEMA Premium Efficiency (IEC IE3) |                                   |           |                    |                 |
| Motor Efficiency Rating              |                           |   | Class H, Rated 356°F (180°C)   |                                   |           |                    |                 |
| Insulation<br>Max. Submergence       |                           |   | 65 Feet (20 Meters)  |                                   |           |                    |                 |
| Max. Submergence<br>Min. Submergence |                           |   | 1/2 Motor Covered  |                                   |           |                    |                 |
| Max. Starts per Hour                 |                           |   | 10   |                                   |           |                    |                 |
| Max. Rated Output Power              |                           |   | 75.0 HP (55,9 kW)  |                                   |           |                    |                 |
|                                      |                           |   |  |                                   | 70.011    |                    |                 |
| Amp Draw @                           |                           |   |  |                                   |           |                    |                 |
| Max. Rated Power:                    |                           |   |  |                                   |           |                    |                 |
| Full Load/<br>Locked Rotor 575V/3P   |                           | 460V/3P   | 86.0/542.0   |                                   |           |                    |                 |
|                                      |                           | 575V/3P   | 69.0/434.0   |                                   |           |                    |                 |
| NEMA Motor Code                      |                           |   | G  |                                   |           |                    |                 |
| Service Factor                       |                           |   | 1.15   |                                   |           |                    |                 |
| Efficiency: 100%/75%/50% Load        |                           |   | 94%/96%/94%  |                                   |           |                    |                 |
| Power Factor: 100%/75%/50% Load      |                           |   | 0.85/0.81/0.73   |                                   |           |                    |                 |
| Field Connection                     |                           |   | Across-the-Line  |                                   |           |                    |                 |
| Moisture Sensor                      |                           |   | Single Probe Monitoring Both Seal and Motor Chambers   |                                   |           |                    |                 |
| Thermal Overload                     |                           |   | One Thermostat per Phase, Self-Resetting<br>CABLE DETAILS  |                                   |           |                    |                 |
|                                      | Voltors                   |   |  | 460V                              |           | E761               |                 |
| Voltage<br>No. Cables/Conductors per |                           |   |  | 460V<br>1/6                       |           | 575                |                 |
| Power                                |                           |   | (2) 1 1  | 1 -                               |           | 7 -                |                 |
| Cable                                | Gauge<br>Type/Material    |   | (3) I AV   | <u>VG PWR &amp; (3) 6 AWC</u>     | a GIND/GC |                    | 3) 6 AWG GND/GC |
|                                      | Nominal Cable O.D.        |   |  | <u>GGC/CPE</u><br>1.51" (38,4 mm) |           | GGC/(<br>1 51" (38 |                 |
| Control<br>Cable                     | No. Cables/Conductors per |   | <u>1.51" (38,4 mm)</u> <u>1.51" (38,4 mm)</u><br>1/4   |                                   |           |                    |                 |
|                                      | Gauge                     |   | 14 AWG   |                                   |           |                    |                 |
|                                      | Type/Material             |   | SOOW/CPE   |                                   |           |                    |                 |
|                                      | Nominal Cable O.D.        |   | 0.61" (15,5 mm)  |                                   |           |                    |                 |
|                                      | Length                    |   | 32 Feet (10 Meters) Standard, 164 Feet (50 Meters) Maximum   |                                   |           |                    |                 |
|                                      |                           |   | GC   | RMAN-RUPP                         |           |                    |                 |
| 5                                    |                           |   | ac   |                                   |           |                    |                 |
| CODIAN                               | RUPP                      |   |  | www.grpumps.c                     | om        |                    |                 |
| GORMAN                               |                           |   |  |                                   |           |                    |                 |





