SF Series

VARIOUS PATENTS APPLY

Sec. 133

PAGE 320

AUGUST 2024

Solids Handling Electric Motor Driven

Submersible Pump **Models**

SF6C & SF6C-X

Size 6"



X-PROOF MOTORS FOR CLASS I, DIV. 1. GROUPS C&D LOCATIONS (X-Proof Version Only)

The Gorman-Rupp SF Series® channel pumps provide superior pumping efficiency while maintaining a 3-inch (76,2 mm) spherical solids passage.

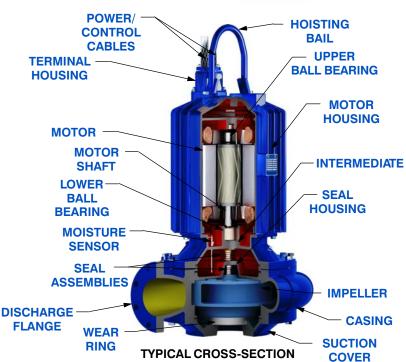
Key Features:

- NEMA premium efficiency motors
- Externally adjustable face clearance
- Press-fit motor with finned motor housing provides superior motor cooling, even in a submersed state, resulting in increased motor life
- NEMA Class H motor insulation
- Direct wired power cable leads
- Standard moisture detection in both the seal and motor chambers
- Factory Mutual (FM) Approved for Class I, Division I, Group C and D Haz Loc Applications (X-Proof Model)

POWER/

Optional Accessories:

- G-R Hard Iron Impeller
- Control Panel (Consult SF Series Motor Data Reference for Customer-Supplied Control Panel)
- Submersible Transducer or Ball Type Float Switches
- Slide Rail Installation Components
 - Guide shoe W/Rubber Seal
 - Base Elbow and Rail Brackets
- Trash Stand Installation Components
 - Trash Stand
 - Discharge Elbow





GORMAN-RUPP PUMPS

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Mat	oriale and	d Technical Da	ata		Sec. 133	PAGE 320.1	
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PUMP DETAILS							
	Pump M	odel	SF6C & SF6C-X				
Agency Approvals			Consult Factory				
Discharge Flange			6" 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							
Plate and Intermediate)			Gray Iron 30				
Pump Casing			Ductile Iron				
Motor Shaft			17–4 PH Stainless Steel				
O-Rings			Buna-N and Fluorocarbon (DuPont Viton® or Equivalent)				
Bea	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				
Sealin	Sealing Faces: Upper		Carbon/Ceramic				
	/Stationary	Lower	Silicon Carbide/Silicon Carbide				
Hotating	Seal Elast		Buna-N Upper, Fluorocarbon (DuPont Viton® or Equivalent) Lower				
N/A			104°F (40°C)				
Max. Liquid Temperature			MOTOR DETAILS				
Speed			Inverter-Duty Rated, Air-Filled Enclosure, Squirrel Cage, Induction Start				
Motor Design Motor Efficiency Rating			NEMA Premium Efficiency (IEC IE3)				
Insulation			Class H, Rated 356°F (180°C)				
Max. Submergence			65 Feet (20 Meters)				
Min. Submergence			1/2 Motor Covered				
Max. Starts per Hour			10				
Max. Rated Output Power			30.0 HP (22,4 kW)				
wax. Hateu Output Fower			00.0111 (22,4 NVV)				
Amp Draw @							
Max. Rated Power: Full Load/ Locked Rotor		230V/3P	73.2 / 492.0				
		460V/3P	36.6 / 246.0				
		575V/3P	29.3 / 197.0				
NEMA Motor Code			Н				
Service Factor			1.15				
Efficiency: 100%/75%/50% Load			93%/90%/90%				
Power Factor: 100%/75%/50% Load			0.83/0.77/0.70				
Field Connection			Across-the-Line				
	Moisture Sensor			Single Probe Monitoring Both Seal and Motor Chambers			
Thermal Overload			One Thermostat per Phase, Self-Resetting				
				CABLE DETAILS			
Voltage			230/460V	575			
Power Cable	No. Cables/Conductors per		45.	1/6	1/0		
	Gauge		(3) 4 A\	VG PWR & (3) 8 AWG GND/GC		3) 10 AWG GND/GC	
	Type/Material			GGC/CPE	GGC/		
	Nominal Cable O.D.			1.19" (30,2mm)	0.91" (23	3,1 mm)	
Control Cable	No. Cables/Conductors per		1/4 14 AWG				
	Gauge						
	Type/Material		SOOW/CPE 0.61" (15,5 mm)				
Nominal Cable O.D.			32 Feet (10 Meters) Standard, 164 Feet (50 Meters) Maximum				
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Specification Data

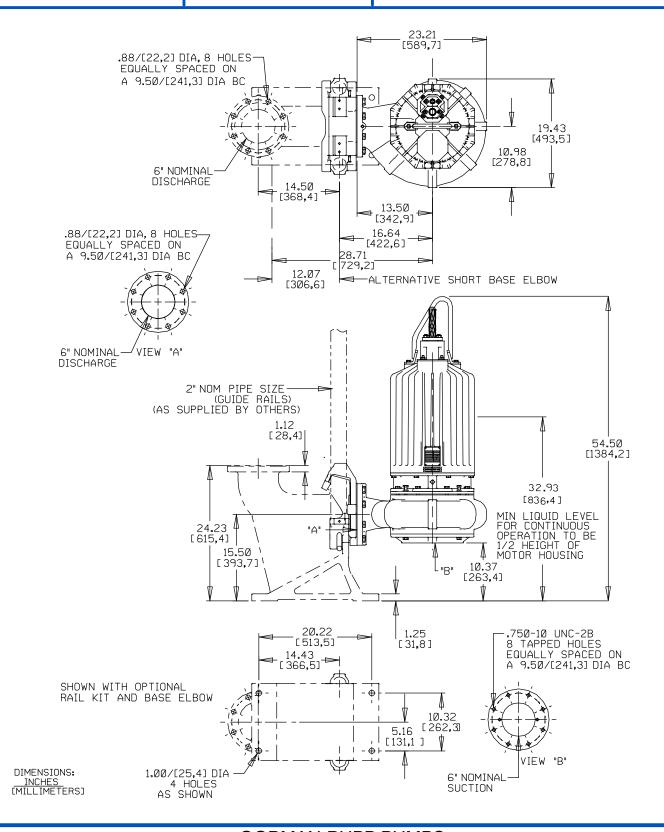
SECTION 133, PAGE 320.2

MODEL SF6C & SF6C-X SLIDE RAIL VERSION APPROXIMATE DIMENSIONS and WEIGHTS

NET WT: (pump only) (comb. cable wt. per meter [3.2 ft.]) SHIPPING WT: (pump only) **CRATE SIZE:**

670 LBS. 3.4 LBS. 710 LBS. 25.1 CU. FT. [0,71 CU. M.]

[303 KG.] [1,54 KG.] [322,1 KG.]





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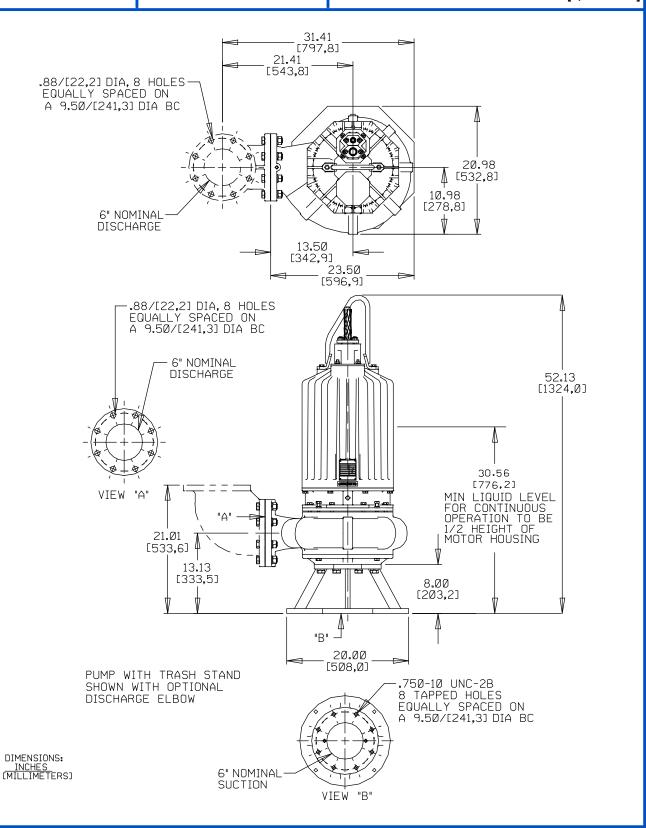
Specification Data

SECTION 133, PAGE 320.3

MODEL SF6C & SF6C-X TRASH VERSION APPROXIMATE DIMENSIONS and WEIGHTS **NET WT:** (pump only) (comb. cable wt. per meter [3.2 ft.]) 3.4 LBS. SHIPPING WT: (pump only) CRATE SIZE:

720 LBS. 760 LBS. 26.8 CU. FT. [0,76 CU. M.]

[326,6 KG.] [1,54 KG.] [344,7 KG.]





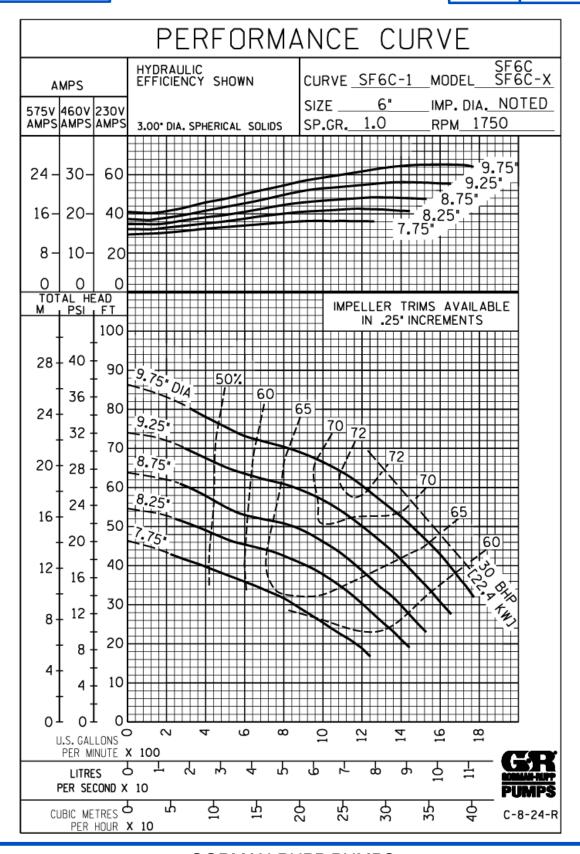
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Sec. 133

PAGE 320.4 AUGUST 2024





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