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SECTION: Z3.10.300

ZM1288

0122

Supersedes

0921

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## 70 SERIES - MODELS 7011-7012-7013

### TECHNICAL DATA

#### 2 HP GRINDER PUMPS- DUAL SEAL

<b>MODELS:</b>	<input type="checkbox"/> 7011	<input type="checkbox"/> 7012	<input type="checkbox"/> 7013
<b>CONFIGURATION:</b>	REVERSING	HIGH HEAD	HIGH FLOW
<b>PUMP NAME PLATE HORSEPOWER:</b>	2.0	2.0	2.0
<b>SERVICE FACTOR:</b>	1.2	1.2	1.2
<b>NEC LOCKED ROTOR CODE:</b>	K	K	K
<b>MAXIMUM KW INPUT:</b>	3.9	3.9	3.9
<b>STANDARD IMPELLER DIAMETER:</b>	5.515" (140 mm)	6.125" (156 mm)	6.188" (157 mm)
<b>DISCHARGE SIZE:</b>	<input type="checkbox"/> 1.25" VERTICAL OR <input type="checkbox"/> 1.25" HORIZONTAL		

<b>IMPELLER TYPE:</b>	VORTEX	<b>TANDEM SEALS:</b>	STANDARD
<b>CUTTER &amp; PLATE:</b>	440C SS HARDENED TO RC 55-60	<b>MOTOR DESIGN LETTER:</b>	NEMA B (3 Ph) NEMA L (1Ph)
<b>PUMP NET WEIGHT:</b>	137 lbs. (1 PH), 132 lbs. (3 PH) 62 kg. (1 PH), 60 kg. (3 PH)	<b>POWER CORD LENGTH: ft (m)</b> (20' STANDARD)	<input type="checkbox"/> 25' (7.6 m) <input type="checkbox"/> 35' (10.7 m) <input type="checkbox"/> 50' (15.2 m)
<b>O-RINGS:</b>	VITON	<b>POWER CORD:</b>	14 GAUGE SOOW
<b>MOTOR SHAFT:</b>	416 SS	<b>SENSOR CORD:</b>	18 GAUGE SOOW
<b>RPM:</b>	3450	<b>STATOR &amp; LEAD WIRES INSULATION:</b>	CLASS F
<b>MOTOR TYPE:</b>	SUBMERSIBLE	<b>MAXIMUM STATOR TEMPERATURE:</b>	311 °F (155 °C)

<b>SHAFT SEAL CONSTRUCTION:</b>	STANDARD	CARBON/CERAMIC UPPER CARBON/SILICON CARBIDE LOWER
	OPTIONAL UPPER	<input type="checkbox"/> CARBON /SILICON CARBIDE <input type="checkbox"/> SILICON CARBIDE/SILICON CARBIDE
	OPTIONAL LOWER	<input type="checkbox"/> SILICON CARBIDE/SILICON CARBIDE
<b>STANDARD SENSING DEVICES*</b>	MOTOR THERMAL SHUTOFF	INTEGRAL OVERLOAD (1 PH) OR THERMAL SENSOR (3 PH)
	MOISTURE DETECTION	MOISTURE DETECTION PROBES
<b>IMPELLER MATERIAL</b>	7011 & 7013	STANDARD DUCTILE IRON <input type="checkbox"/> OPTIONAL BRONZE
	7012	STANDARD BRONZE
<b>IMPELLER TRIM - MODELS 7011 &amp; 7013 ONLY:</b>	<input type="checkbox"/> OPTIONAL	DESIGN POINT: ___ GPM @ ___' TDH, IMPELLER DIA. ___"
<b>MAXIMUM WATER TEMPERATURE:</b>		130 °F (54 °C)

\* Requires a circuit in control panel to function.

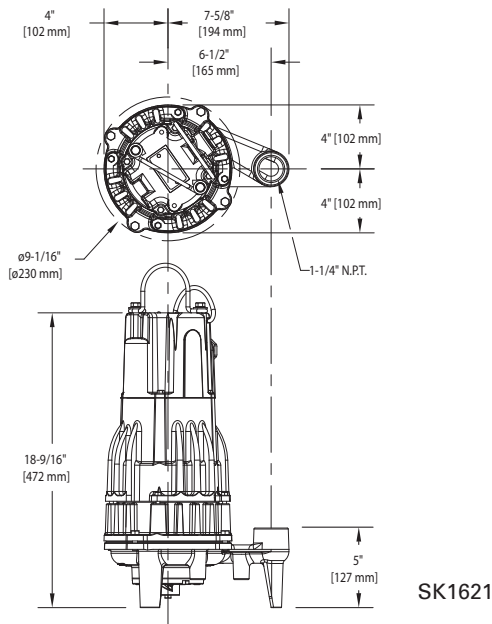
MODEL	HP	SERVICE FACTOR	<input type="checkbox"/> 200V / 1 PH		<input type="checkbox"/> 230V / 1 PH		<input type="checkbox"/> 200V / 3 PH		<input type="checkbox"/> 230V / 3 PH		<input type="checkbox"/> 460V / 3 PH		<input type="checkbox"/> 575V / 3 PH	
			FLA	LRA	FLA	LRA	FLA	LRA	FLA	LRA	FLA	LRA	FLA	LRA
7011	2.0	1.2	20.0	60.7	17.2	57.3	12.3	47.0	10.8	28.0	5.5	20.6	4.5	16.2
7012	2.0	1.2	20.0	60.7	17.2	57.3	12.3	47.0	10.8	28.0	5.5	20.6	4.5	16.2
7013	2.0	1.2	20.0	60.7	17.2	57.3	12.3	47.0	10.8	28.0	5.5	20.6	4.5	16.2

\*Single phase units require a set of capacitors and relay starting components.

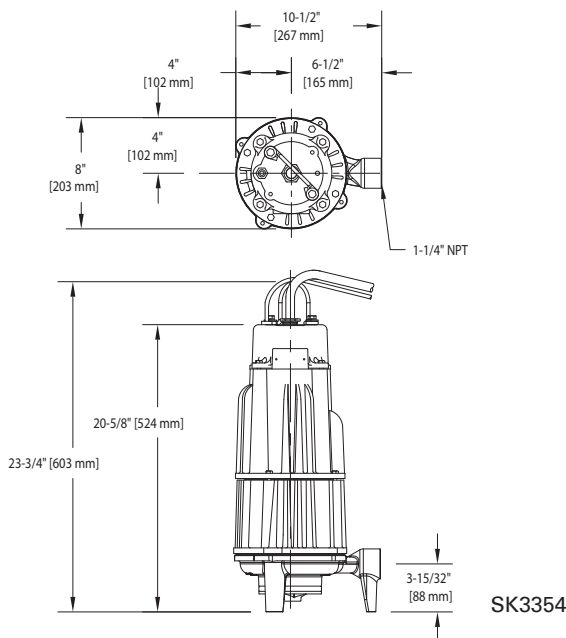
## FEATURES

- Durable epoxy coated cast iron construction
- Bearings - upper and lower ball bearing
- Stainless steel motor shaft
- Motor - 2 HP, 60 Hz, 3450 RPM, 1 & 3 Ph, oil-filled, hermetically sealed, thermal sensor protected
- Dual mechanical shaft seals - upper carbon/ceramic, lower silicon carbide/carbon
- Viton O-ring seals and cover gasket
- Impeller - non-clogging ductile iron (7011 & 7013) or bronze (7012) vortex impeller
- 7011 reversing model
- 7012 high head model
- 7013 high flow model
- 20' UL listed 3-wire SOOW cord. Longer cords available in 25', 35' & 50'.
- Hardened 440C stainless steel cutter and disc, Rockwell C55-60
- 304 SS hardware
- 1.25" NPT Horizontal or Vertical discharge
- 100% computerized tested

### VERTICAL DISCHARGE



### HORIZONTAL DISCHARGE

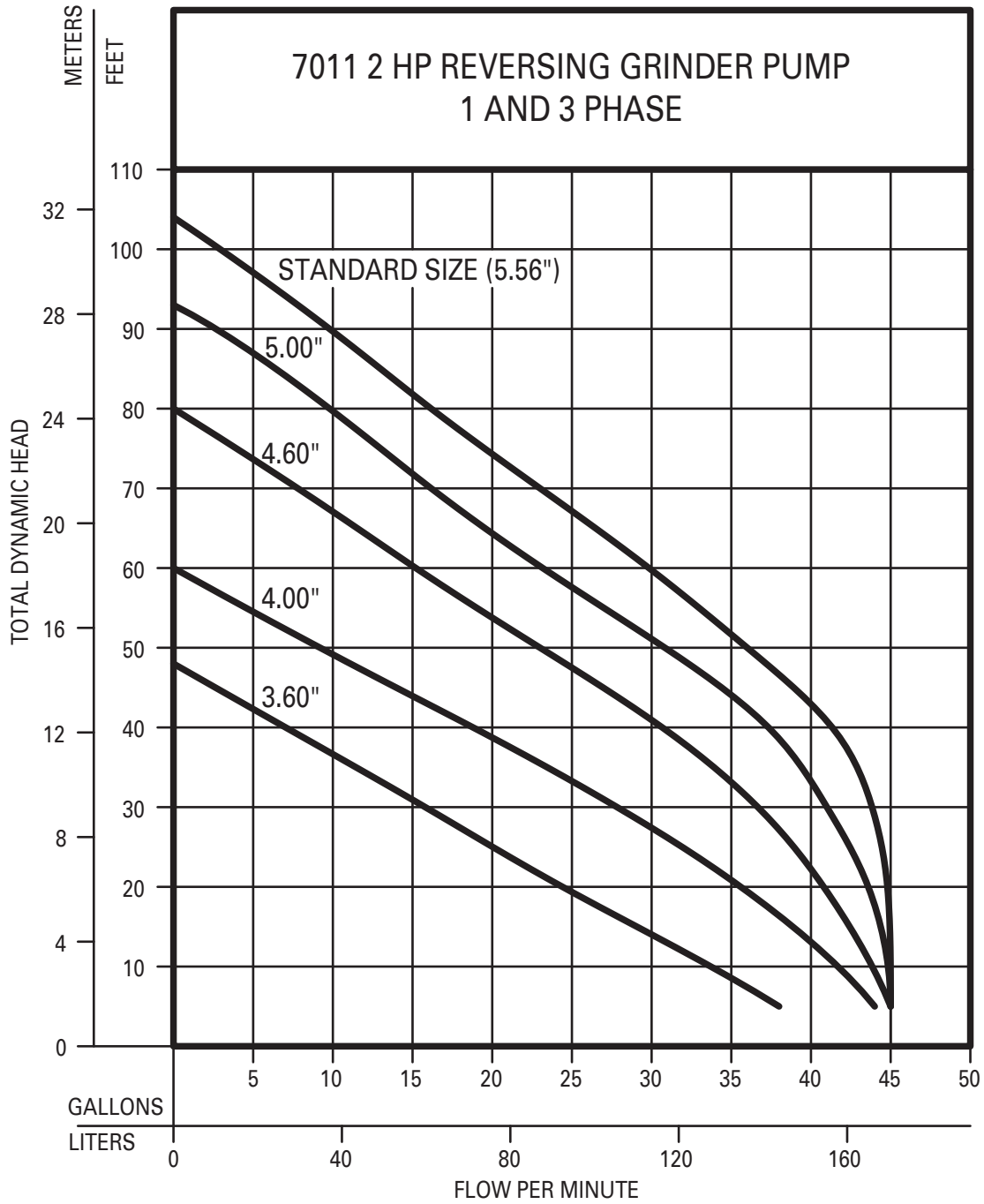


Standad all models - 20 ft. cord - 2 HP				
7011 Models	Control Section			Listed
	Volts	Ph	Amps	cCSAus
E7011*	230	1	17.2	Yes
I7011*	200	1	20.0	Yes
F7011	230	3	10.8	Yes
J7011	200	3	12.3	Yes
G7011	460	3	5.5	Yes
BA7011	575	3	4.5	Yes

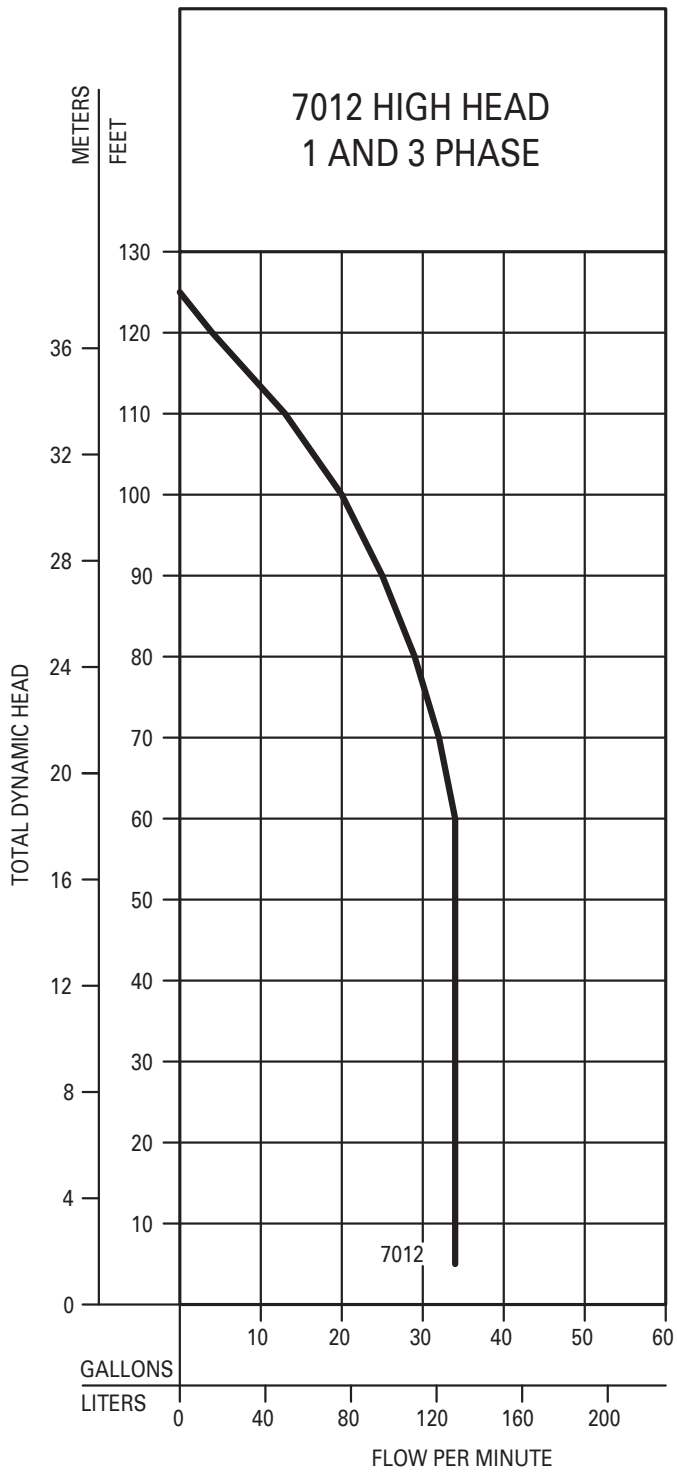
Standad all models - 20 ft. cord - 2 HP				
7012 Models	Control Section			Listed
	Volts	Ph	Amps	cCSAus
E7012*	230	1	17.2	Yes
I7012*	200	1	20.0	Yes
F7012	230	3	10.8	Yes
J7012	200	3	12.3	Yes
G7012	460	3	5.5	Yes
BA7012	575	3	4.5	Yes

Standad all models - 20 ft. cord - 2 HP				
7013 Models	Control Section			Listed
	Volts	Ph	Amps	cCSAus
E7013*	230	1	17.2	Yes
I7013*	200	1	20.0	Yes
F7013	230	3	10.8	Yes
J7013	200	3	12.3	Yes
G7013	460	3	5.5	Yes
BA7013	575	3	4.5	Yes

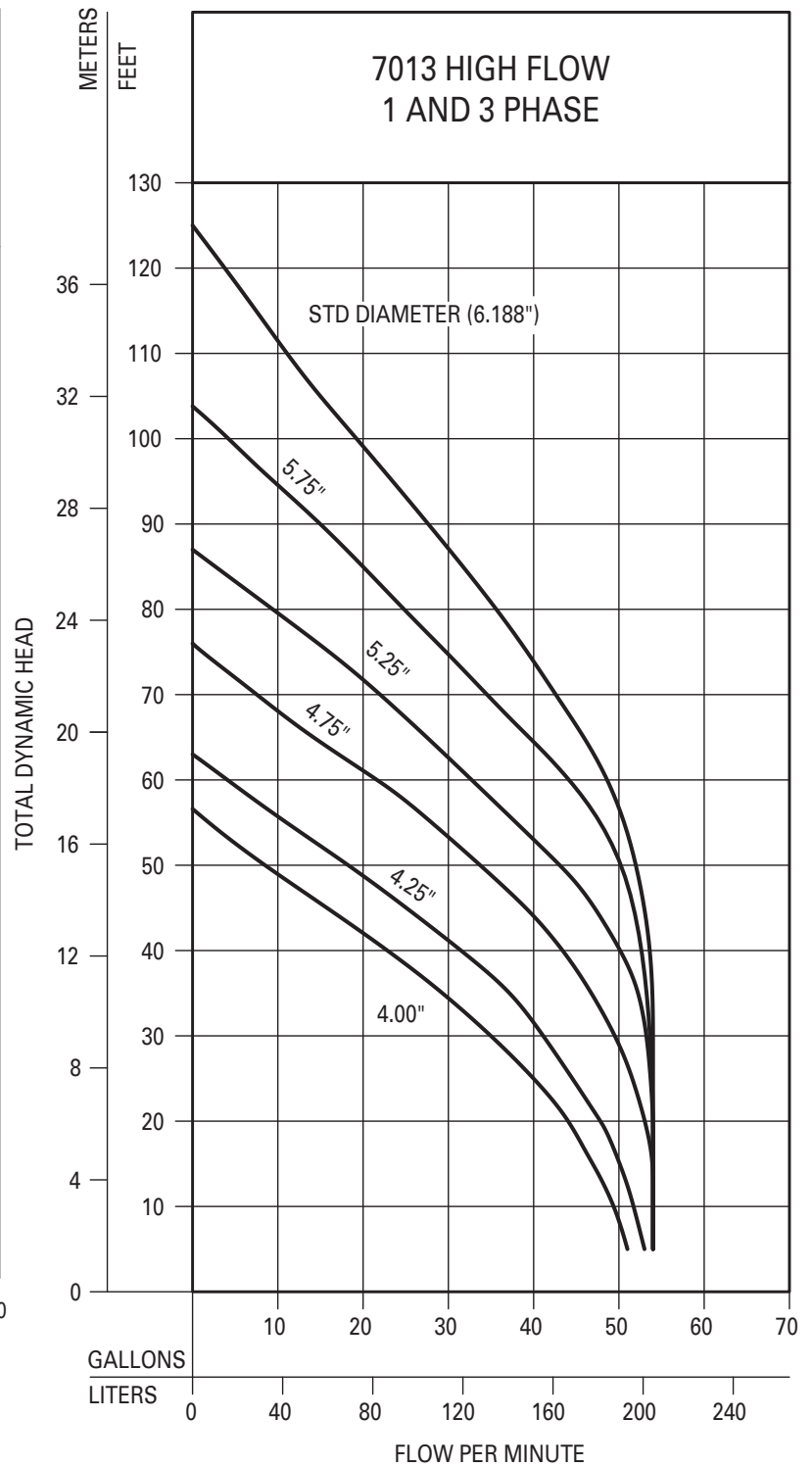
# 7011 REVERSING PERFORMANCE DATA 2 HP Grinder Pump



ZEPB0572



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