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BC2WIRE

Residential Water Systems

CentriPro

Single Phase 2-Wire, 1/2-1 1/2 HP PSC Motors

60 Hertz, 3450 RPM



FEATURES

- 304 SS casing and end bells for corrosion resistance
- Kingsbury type, 3 shoe, 700 lb. thrust bearing
- Stainless steel, 17-4 PH splined shaft
- PSC design for quiet, efficient operation
- Built-in, hermetically sealed, environmentally safe capacitor
- Automatic reset, on-winding thermal overload protection on 2-wire up to 1 1/2 HP
- Removable, replaceable 48" motor lead on 1/2 - 1 1/2 HP
- Water lubricated with filter/check valve to maintain fluid fill
- Lightning and surge protection built-in
- U.L. 778 Recognized
- CSA Certified
- NEMA Mounting Dimensions
- Tested to ANSI/NSF 61



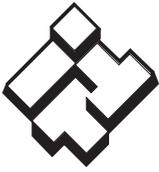
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www.centripro.com

Engineered for life



Tested by CSA to
CSA and UL Standards



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CENTRIPRO Residential Water Systems

APPLICATIONS

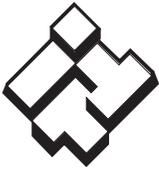
- These 4" motors are designed and sized for installation in 4" diameter or larger water wells.
- PSC, permanent split capacitor, 2 wire motors are efficient and quiet.
- Built-in, hermetically sealed, environmentally safe capacitor eliminates the noise causing pulsations common to many split-phase 2 wire motors.

SPECIFICATIONS

- **Temperature Rating:** Rated for continuous duty in water of 86° F (30° C) maximum.
- **Cooling:** Proper motor cooling requires a water velocity past the motor of .25'/sec which translates into 1.2 gpm in a 4" casing, 7 gpm in a 5" casing and 13 gpm in a 6" casing.
- **Power Lead:** Removable and replaceable motor leads are held in place by two (2) stainless steel screws for positive compression and sealing. Leads are furnished with motors and are also available as replacement parts.
- **Rotation:** CCW, counterclockwise as you face the top or shaft end of the motor.

Materials of Construction

Part	Material
Motor (Stator) Shell	304L SS
Shaft - 1 piece	All 17-4 PH hardened SS
Motor End Bells	304 SS Castings
Upper and Lower Radial Bearings	Carbon Sleeve
½ - 1½ HP Thrust Bearing	700 lb. Kingsbury Type
Overload Protection	Built-in, Auto Reset
Lead Wire	XLPE
Lead Potting	Epoxy
Lead Connector	18-8 SS
Fasteners	18-8 SS
Sand Slinger / Slinger Seat	NBR / Delrin



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Two Wire PSC, Single Phase 4" Motors - Electrical data, 60 Hertz, 3450 RPM

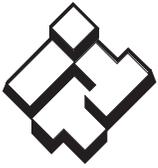
Type	Motor Order No.		HP	KW	Volts	SF	Full Load		Service Factor		Locked Rotor Amps	Winding Resistance
	Centri-Pro	Red Jacket					Amps	Watts	Amps	Watts		
2-Wire (PSC)	M05421	50C201	0.5	0.37	115	1.6	7.4	845	9.5	1088	36.4	1.3-1.8
	M05422	50C211	0.5	0.37	230	1.6	3.7	834	4.7	1073	19.5	4.5-5.2
	M07422	75C211	0.75	0.55	230	1.5	5.0	1130	6.4	1459	24.8	3.0-4.8
	M10422	100C211	1.0	0.75	230	1.4	7.9	1679	9.1	1990	21.7	4.2-5.2
	M15422	150C211	1.5	1.1	230	1.3	9.2	2108	11.0	2520	42.0	1.9-2.3

Efficiency and Power Factor Data

Type	Motor Order Number		HP	Volts	Efficiency %		Power Factor %		Thrust Rating	KVA Code
	CentriPro	Red Jacket			F.L.	S.F.	F.L.	S.F.		
2-Wire (PSC)	M05421	50C201	0.5	115	49	61	99	99	700 #	K
	M05422	50C211	0.5	230	50	62	97	99		K
	M07422	75C211	0.75	230	55	65	97	99		J
	M10422	100C211	1.0	230	58	65	94	96		F
	M15422	150C211	1.5	230	59	64	99	99		H

Fuse or Circuit Breaker Amps

Type	Motor Order Number		HP	Fuse or Circuit Breaker Amps		
	CentriPro	Red Jacket		Standard Fuse	Dual Element Time Delay	Circuit Breaker
2-Wire (PSC)	M05421	50C201	0.5	25	15	20
	M05422	50C211	0.5	15	10	10
	M07422	75C211	0.75	20	10	15
	M10422	100C211	1.0	25	15	20
	M15422	150C211	1.5	30	15	25

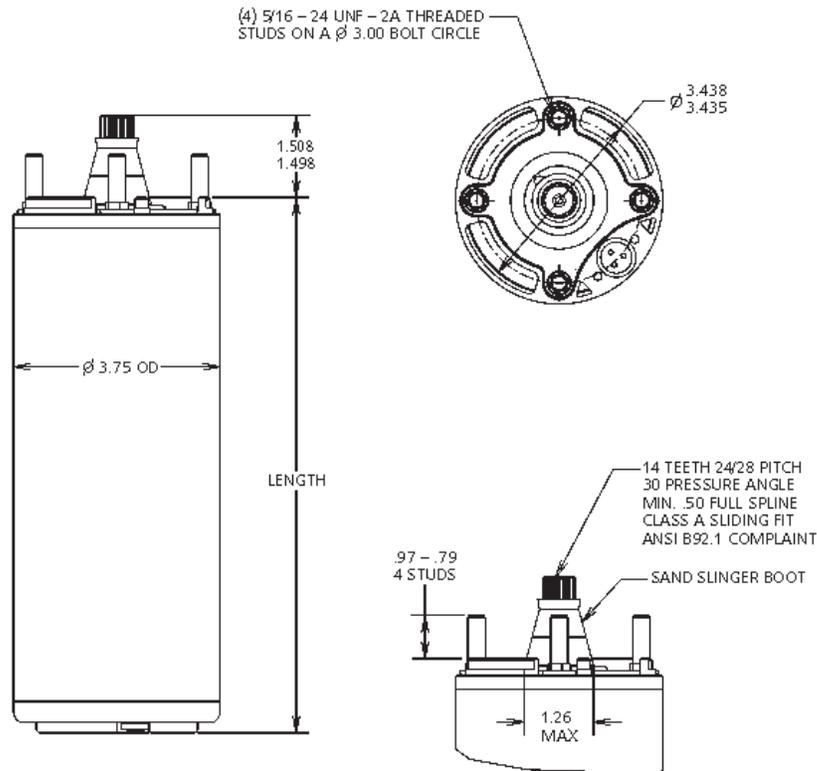


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Weights and Dimensions

Type	Motor Order Number				Length		Motor Weight	
	CentriPro	Red Jacket	HP	Volts	Inches	mm	Lb.	Kg.
2-wire PSC	M05421	50C201	.5	115	11.0	279	19.2	8.7
	M05422	50C211	.5	230	11.0	279	19.2	8.7
	M07422	75C211	.75		12.4	314	22.7	10.3
	M10422	100C211	1		13.3	337	24.5	11.1
	M15422	150C211	1.5		14.9	378	28.9	13.1



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