



# ITT

BRCP4MTR

## CentriPro® 4" Motors and Controls



*Engineered for life*

# CentriPro

4" Motors and Controls

## 4" CENTRIPRO MOTOR



### Single-Phase Motors:

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#### Two-Wire PSC Motors

- ½ HP, 115 V
- ½ - 1½ HP, 230 V

#### Three-Wire Motors

- ½ HP, 115 V
- ½ - 5 HP, 230 V

### Three-Phase Motors:

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- ½ - 10 HP (10 HP is 460V only)
- 200V, 230V, 460V and 575V available

### Features:

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#### Three-Wire - Capacitor Start Motor Design

- Use with our CentriPro Quick Disconnect, CSCR or Magnetic Contactor (MC) style control boxes.

#### Two-Wire PSC (Permanent Split Capacitor) Design

- Quieter than split-phase, 2-wire motors, capacitor reduces pulsation noise.
- Capacitor built-in and hermetically sealed.

#### Two-Wire and Three-Wire Designs

- 304 Stainless steel end bells, top and bottom
- 304 Stainless steel shell
- Laser Welded - 21st century welding technology for improved welds.
- Built-in lightning/surge protection through 5 HP, 200 or 230V.
- Three-shoe Kingsbury thrust bearing (ratings in chart).
- Precision machined, one-piece, 304 stainless steel castings used for upper and lower end bells.
- Water-filled design with non-toxic propylene glycol solution to protect the motor during shipping and storage.
- Built-in check valve maintains water fill needed for cooling and lubrication.
- Replaceable motor lead is held in place by (2) screws for controlled compression - no danger of stripping the lead threads.
- Tested to UL and CSA standards by CSA.
- Tested to ANSI/NSF 61 by U.L.

# 4" CENTRIPRO MOTORS



## Single Phase 115 and 230 Volt

Type	CP No.	RJ No.	Control Box	HP	Volts	SF	Thrust Rating	Length (in)	Wt. (lbs)
2-Wire (PSC)	M05421	50C201	Not required	0.5	115	1.6	700 #	11.0	19.2
	M05422	50C211	Not required	0.5	230	1.6		11.0	19.2
	M07422	75C211	Not required	0.75	230	1.5		12.4	22.7
	M10422	100C211	Not required	1	230	1.4		13.3	24.5
	M15422	150C211	Not required	1.5	230	1.3		14.9	29.0
3-Wire	M05411	50C301	CB05411	0.5	115	1.6		10.0	18.9
	M05412	50C311	CB05412	0.5	230	1.6		9.7	18.1
	M07412	75C311	CB07412	0.75	230	1.5		10.8	21.4
	M10412	100C311	CB10412	1	230	1.4		11.7	23.1
	M15412	150C311	CB15412CR	1.5	230	1.3		13.6	27.4
	M20412	200C311	CB20412CR	2	230	1.25	900 #	15.1	33.0
	M30412	300C311	CB30412CR	3	230	1.15		18.3	40.0
	M50412	500C311	CB50412CR	5	230	1.15		1500 #	27.7

## Three Phase 4" Motors - Order Numbers for CentriPro and Red Jacket Models

HP	kW	SF	CP	RJ	CP	RJ	CP	RJ	CP	RJ
			200 Volt		230 Volt		460 Volt		575 Volt	
0.5	0.37	1.6	M05430	50C323	M05432	50C313	M05434	50C353	NA	NA
0.75	0.55	1.5	M07430	75C323	M07432	75C313	M07434	75C353	NA	NA
1	0.75	1.4	M10430	100C323	M10432	100C313	M10434	100C353	NA	NA
1.5	1.1	1.3	M15430	150C323	M15432	150C313	M15434	150C353	M15437	150C363
2	1.5	1.25	M20430	200C323	M20432	200C313	M20434	200C353	M20437	200C363
3	2.2	1.15	M30430	300C323	M30432	300C313	M30434	300C353	M30437	300C363
5	3.7	1.15	M50430	500C323	M50432	500C313	M50434	500C353	M50437	500C363
7.5	5.5	1.15	M75430	750C323	M75432	750C313	M75434	750C353	M75437	750C363
10	7.5	1.15	—	—	—	—	M100434	1000C353	—	—

# CentriPro

## 4" Motors and Controls

### Quick Disconnect Control Box Features

- Voltage Relays for installer convenience
- 208 volt relay available for low voltage applications
- NEMA 3R enclosure for indoor or outdoor mounting
- Quick disconnect cover design will retrofit with F.E. Q-D control boxes
- 115 and 230 volt models
- Start Capacitors
- Multiple knockouts
- Two ground lugs

AGENCY LISTINGS:  



### CentriPro Order Numbers

Control Box Order Number	HP	KW	Volts	Enclosure Dimensions W x D x H (in)	Shipping Weight (lbs)
CB05411	.5	.37	115	4.8 x 2.9 x 8.4	4
CB05412	.5	.37	230		
CB07412	.75	.55	230		
CB10412	1	.75	230		

Note: 208 Volt starting relay is available as a repair part for 200-208 volt power supplies, 9K461.

### CSCR (Capacitor Start-Capacitor Run) Control Box Features

- Voltage Relay for installer convenience
- 230 volt standard models – 208 volt relay, order no. 9K479 is available for low voltage applications
- Start Capacitors for starting torque
- Run Capacitors for efficiency and quiet operation
- Type 3R enclosure for indoor or outdoor mounting
- Accepts up to #2 AWG wire
- Multiple knockouts and two ground terminals
- Higher HP models require heavy duty pressure switches – See Magnetic Contactor version to use standard pressure switches
- Manual reset overloads on 1½ – 5 HP models



AGENCY LISTINGS:  TESTED TO UL AND CSA STANDARDS BY UL.

Control Box Order Number	HP	KW	Volts	Enclosure Dimensions W x D x H (in)	Shipping Weight (lbs)
CB05412CR	0.5	.37	230	8.1 x 5.9 x 9.3	7
CB07412CR	.75	.55	230		
CB10412CR	1	.75	230		
CB15412CR	1.5	1.1	230		
CB20412CR	2	1.5	230		
CB30412CR	3	2.2	230		
CB50412CR	5	3.7	230	8.1 x 5.9 x 9.3	8

# MAGNETIC CONTACTOR 1Ø CONTROL BOXES

For 3-wire, 1½ – 5 HP Submersible Motors



1½ – 3 HP

## Features

- Built-in Magnetic Contactors allow the use of standard pressure switches, prolong switch life and eliminate the need to source and install separate contactors, saving installation time and reducing total system component costs.
- Voltage Relay for installer convenience
- 230 volt standard models – 208 volt relay, order no. 9K479 is available for low voltage applications
- Start Capacitors for starting torque
- Run Capacitors for efficiency and quiet operation
- Type 3R enclosure for indoor or outdoor mounting
- Accepts up to #2 AWG wire
- Multiple knockouts and two ground terminals
- Manual reset overloads on 1½ – 5 HP models

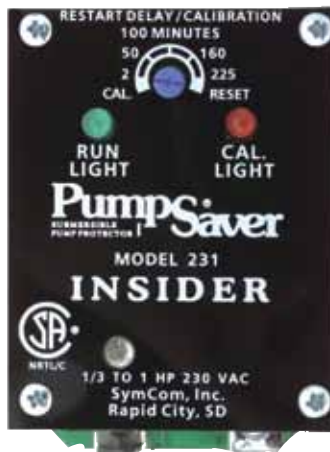
## AGENCY LISTINGS:



TESTED TO UL AND CSA STANDARDS BY UL.

Control Box Order Number	HP	KW	Volts	Enclosure Dimensions W x D x H (in)	Shipping Weight (lbs)
CB15412MC	1.5	1.1	230	8.1 x 5.9 x 9.3	8
CB20412MC	2	1.5	230		
CB30412MC	3	2.2	230		
CB50412MC	5	3.7	230	11 x 6.7 x 12.5	15

## PUMPSAVER® INSIDERS PUMPSAVER® 111, 233 AND 235 777KWHP – 3 PHASE



### Features

- Quickly and easily calibrates any submersible or centrifugal pump to jobsite conditions (voltage and current). Unlike other protection devices which only work with one brand of submersible motors.
- Most models available installed in NEMA 3R Rainproof (outside) enclosures or shipped loose for installation in existing control panels.
- Single phase units work with the hand held Informer for simple, fast troubleshooting and system diagnostics.
- Available in single and three phase models.
- Insider Plus models fit in CentriPro, Goulds Pumps, Pentair and Franklin Electric Quick Disconnect type control boxes from 1/2 - 1 HP. The Plus version contains a fiber optic kit to signal an Informer.
- Protects against dry wells, low and high voltage, rapid cycling, jammed pump, dead heading (flow restriction)
- Automatic reset selectable, 2-225 minutes or can be set on manual reset.

# AQUAVAR SOLO™

1AS15, 3AS20, 3AS30 and 3AS50

Constant Pressure Controllers for 1/2-, 3 and 5 HP Submersible Pumps



## Features

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- Enclosure Rating: NEMA 3R, IP22 rainproof, indoor/outdoor enclosure. Allows mounting the controller outdoors.
- Current Limit Selector Switch: Rotary switch to set current limit to match motor Service Factor Amps (SFA).
- The controller may be used on smaller pump/motor combinations as long as the motor SFA is within the current limit range of the controller.
- Communications Port: RS-232 serial port to facilitate software updates and future expansion.
- Three sizes available for 1/2 - 5 HP, three phase pumps.
- 1AS15 for 1/2 - 1 1/2 HP single phase pumps.
- Constant Pressure: The system provides consistent pressure even as system flow requirements vary.
- Controller acts as a pump protection device and troubleshooting device.
- Flashing LED lights indicate system faults by number of flashes.
- Controller will operate between 190 and 260 volts.
- Includes a pressure sensor and sensor cable.
- Integrated output motor filter protects the motor from voltage spikes and limits electrical interference with devices such as portable telephones, radios, televisions and garage door openers.
- Cooling fan: Allows operation in ambient temperatures up to 122°F.

# ELECTRICAL ACCESSORIES

Replacement Motor Leads, Cable Accessories,  
Lightning Protection Devices, Bulk Cable



## Features

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### Motor Leads

- 4" CentriPro Motor Leads
- 6" CentriPro Motor Leads
- 4" CentriPro Packaged Cables 50' - 300'

### Cable Accessories

- Heat Shrink Kits
- Splicing Tape

### Lightning Protection Devices

- AW24-1 and AW24-3 Lightning Arrestors
- Watt-Knot® Voltage Surge Arrestors

### Bulk cable with ground

- Twisted design, solid copper conductor.
- PVC insulated
- AWG 8-14



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