



ITT

BRCP4MTR

CentriPro® 4" Motors and Controls



Engineered for life

CentriPro®
Control Box
Model CB15412CR
HP 1 1/2, Volts 230 

ITT *Engineered for life*

⚠ WARNING ELECTRIC SHOCK HAZARD DISCONNECT POWER BEFORE OPENING.	⚠ AVERTISSEMENT RISQUE D'ÉLECTROCHOC - DÉBRANCHER LA BOÎTE DE COMMANDE ÉLECTRIQUE AVANT DE L'OUVRIRE.	⚠ ADVERTENCIA PELIGRO DE CHOQUE ELECTRICO DESCONECTAR ALIMENTACION ELECTRICA ANTES DE ABRIR.
---	--	---

OVERLOAD PROTECTORS OR SWITCHES IN THIS BOX DO NOT CUT OFF ALL POWER LINES TO THE PUMP. EVEN THOUGH THE PUMP STOPS WHEN THE SWITCHES ARE OFF, TO AVOID SERIOUS OR FATAL SHOCK, SWITCH OFF POWER TO THIS BOX AT THE FUSE OR CIRCUIT BREAKER PANEL BEFORE WORKING ON OR AROUND THE BOX, PIPES, CABLE, PUMP OR MOTOR. DO NOT USE OR TOUCH THIS BOX, PIPES, CABLE, PUMP OR MOTOR UNLESS ALL METAL PARTS HAVE BEEN PROPERLY GROUNDED ACCORDING TO APPLICABLE CODES.

CentriPro®
Control Box
Model CB05412
HP 1/2, Volts 230 

ITT *Engineered for life*

⚠ WARNING ELECTRIC SHOCK HAZARD DISCONNECT POWER BEFORE OPENING.	⚠ AVERTISSEMENT RISQUE D'ÉLECTROCHOC - DÉBRANCHER LA BOÎTE DE COMMANDE ÉLECTRIQUE AVANT DE L'OUVRIRE.	⚠ ADVERTENCIA PELIGRO DE CHOQUE ELECTRICO DESCONECTAR ALIMENTACION ELECTRICA ANTES DE ABRIR.
---	--	---

4" CENTRIPRO MOTOR



Single-Phase Motors:

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:

- ½ - 7½ HP
- 200V, 230V, 460V and 575V available

Features:

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

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	Replaces old #	Replaces FE #	Enclosure Dimensions W x D x H (in)	Shipping Weight (lbs)
CB05411	.5	.37	115	00043	280 104 49	4.8 x 2.9 x 8.4	4
CB05412	.5	.37	230	00044	280 105 49	4.8 x 2.9 x 8.4	4
CB07412	.75	.55	230	00054	280 107 49	4.8 x 2.9 x 8.4	4
CB10412	1	.75	230	00064	280 108 49	4.8 x 2.9 x 8.4	4

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	May Replace GP #	May Replace RJ #	May Replace FE #	Enclosure Dimensions W x D x H (in)	Shipping Weight (lbs)
CB05412CR	0.5	.37	230	NA	50F311CB S50N1CB, A50N1CB	2824055015 ①	8.1 x 5.9 x 9.3	7
CB07412CR	.75	.55	230	NA	75F311CB S75N1CB, A75N1CB	2824075015 ①	8.1 x 5.9 x 9.3	7
CB10412CR	1	.75	230	NA	S100F311CB S100N1CB, A100N1CB	2824085015 ①	8.1 x 5.9 x 9.3	7
CB15412CR	1.5	1.1	230	00074	150F311CB S150N1CB, A150N1CB	282 3008 110	8.1 x 5.9 x 9.3	7
CB20412CR	2	1.5	230	00084	200F311CB S200N1CB, AS200T1CB	282 3018 110	8.1 x 5.9 x 9.3	7
CB30412CR	3	2.2	230	00094	300F311CB S300N1CB	282 3028 110	8.1 x 5.9 x 9.3	7
CB50412CR	5	3.7	230	00104	500F311CB S500N1CB	282 1138 110	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

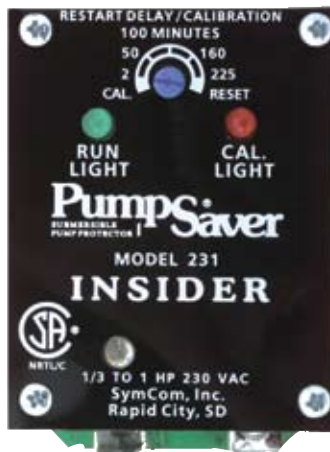
- Built-in Magnetic Contactors allow the use of standard pressure switches, prolong switch life and eliminate the need to source and install separate contactors, saving installation time and reducing total system component costs.
- Voltage Relay for installer convenience
- 230 volt standard models – 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.

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.

BALANCED FLOW®

BF20, BF30 and BF50

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



Features

- 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 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

Motor Leads

- 4" CentriPro Motor Leads
- 6" CentriPro Motor Leads
- 4" Franklin Electric 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



ITT
2881 East Bayard Street
Seneca Falls, NY 13148
Phone: (315) 568-7123
Fax: (315) 568-7973

www.centripro.com

Copyright © 2009 ITT Corporation BRCP4MTR February, 2009
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Printed in U.S.A.



Engineered for life