



CONTROL BOXES

The Quick Disconnect (QD) and Capacitor Run Control (CRC) control boxes are designed for use with Franklin 3-wire, single-phase submersible motors through 1 hp. The Standard and Deluxe control boxes are designed for use with Franklin 3-wire, single-phase submersible motors from 1 through 15 hp, and are recommended for water systems that use pressure switches, level switches, or other pilot devices. Deluxe boxes contain magnetic line contactors carefully matched to the motor rating, eliminating the need for external line connectors.

FEATURES: ALL

- Suitable for outdoor mounting
- Capacitor start/run design (except QD boxes)
- UL Listed for US and Canada (60 Hz models)

FEATURES: STANDARD & DELUXE

- Heavy-duty, box-type terminals accept up to AWG #2 wire
- External access to overload resets
- Multiple-size knockouts
- User-friendly connection diagrams
- Easy access to grounding lugs



SINGLE-PHASE SPECIFICATIONS

Box Type	Hz	HP Range	kW Range	Enclosure	Terminal Block		Mag Contactor	Agency Approvals
					Terminals	Max Wire		
Quick Disconnect (QD)	60	1/3 - 1	0.25 - 0.75	NEMA 3R, IP23	5	AWG 10	No	UL listed for US and Canada
Quick Disconnect (QD)	50	1/3 - 1	0.25 - 0.75	NEMA 3R, IP23	5	AWG 10	No	CSA Certified
Capacitor Run Control (CRC)	60	1/2 - 1	0.37 - 0.75	NEMA 3R, IP23	5	AWG 10	No	UL listed for US and Canada
Standard (S)	60	1 - 10	0.75 - 7.5	NEMA 3R, IP23	5	AWG 2	No	UL listed for US and Canada
Standard (S)	50	1.5 - 5	1.1 - 3.7	NEMA 3R, IP23	5	AWG 2	No	CSA Certified
Deluxe (D)	60	1 - 15	0.75 - 11	NEMA 3R, IP23	6	AWG 2	Yes	UL listed for US and Canada

CONTROL BOXES

ORDERING INFORMATION

HP (kW)	Description				Model No.
	Phase	Volts	Hz	Type	
13 / 0,25	1	115	60	Q	2801024915
		220	50	Q	2803532115
		230	60	Q	2801034915
1/2 / 0.37		115	60	Q	2801044915
		220	50	Q	2803552115
		230	60	Q	2801054915
		230	60	CRC	2824055015
		220	50	Q	2803572115
34 / 0,55		230	60	Q	2801074915
		230	60	CRC	2824075015
		220	50	Q	2803582115
1 / 0.75		230	60	Q	2801084915
		230	60	CRC	2824085015
		230	60	S	2823008110
		230	60	D	2823008310
		220	50	S	2823508110
		230	60	S	2823008110
1.5 / 1.1		230	60	D	2823008310
		220	50	S	2823518110
		230	60	S	2823018110
2 / 1.5		230	60	D	2823018310
		220	50	S	2823528110
		230	60	S	2823028110
3 / 2.2		230	60	D	2823028310
		220	50	S	2822539010
		230	60	S	2821138110
5 / 3.7		230	60	D	2821139310
		230	60	S	2822019210
		230	60	D	2822019310
7.5 / 5.5		230	60	S	2822029230
		230	60	D	2822029330
10 / 7.5		230	60	D	2822039330
15 / 11	230	60	D	2822039330	

NOTE: Q = Quick Disconnect Control Box; CRC = Capacitor Run Control Box; S = Standard Control Box; D = Deluxe Control Box



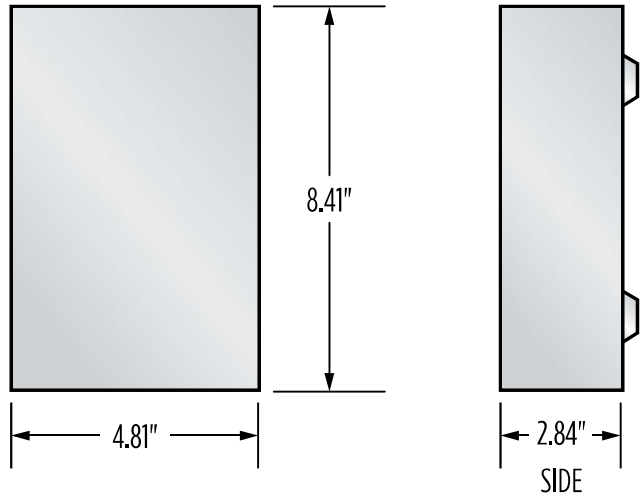
CONTROL BOXES - QUICK DISCONNECT (QD) & CAPACITOR RUN CONTROL (CRC)

SPECIFICATIONS

- Bottom Knockout: Two 0.88" knockouts and one 1.31" knockout
- Side Knockout: One 0.88" knockout and one 1.31" knockout on each side
- Terminal Block: Five terminals provided for wiring up to AWG #10 wire

DIMENSIONS

Box Type	HP / kW	Enclosure Size	Motor Carton Size (in)			Shipping Wt.	
			W	H	L	lbs	kg
Quick Disconnect (QD)	1/3 / 0.25	QD	5.5	3.25	9	4	1.8
	1/2 / 0.37						
	3/4 / 0.55						
	1 / 0.75						
Capacitor Run Control (CRC)	1/2 / 0.37					5	2.3
	3/4 / 0.55						
	1 / 0.75						



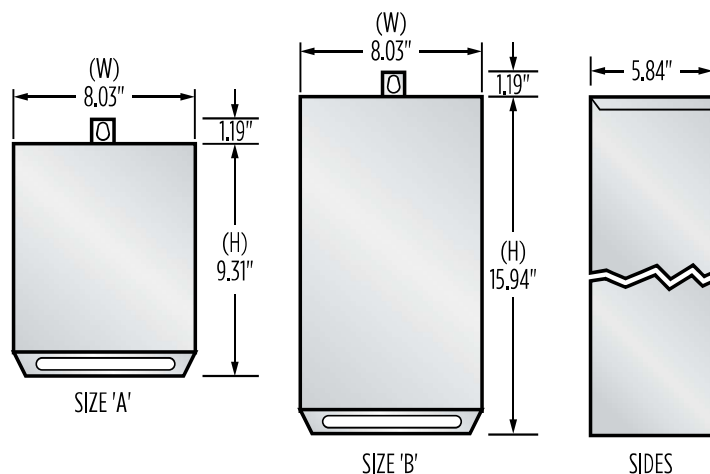
CONTROL BOXES - STANDARD & DELUXE

SPECIFICATIONS

- Knockouts: Two 1.31" diameter holes for 1" conduit connection; One 1.75" knockout for 1.25" conduit; One 0.88" knockout for 0.5" conduit connection
- Terminal Block: Six terminals provided for wiring up to AWG 2 wire

DIMENSIONS

Box Type	HP / kW	Enclosure Size	Motor Carton Size (in)			Shipping Wt.	
			W	H	L	lbs	kg
Standard	1 / 0.75	A	8.125	6.25	11.25	7	3.2
	1.5 / 1.1	A	8.125	6.25	11.25	7	3.2
	2 / 1.5	A	8.125	6.25	11.25	7	3.2
	3 / 2.2	A	8.125	6.25	11.25	7	3.2
	5 (60 Hz) / 3.7	A	8.125	6.25	11.25	8	3.6
	5 (50 Hz) / 3.7	B	8.125	6.25	18	8	3.6
	7.5 / 5.5	B	8.125	6.25	18	12	5.5
Deluxe	10 / 7.5	B	8.125	6.25	18	14	6.4
	1 / 0.75	A	8.125	6.25	11.25	7	3.2
	1.5 / 1.1	A	8.125	6.25	11.25	7	3.2
	2 / 1.5	A	8.125	6.25	11.25	7.0	3.2
	3 / 2.2	A	8.125	6.25	11.25	7.3	3.3
	5 / 3.7	B	8.125	6.25	18	11.2	5.1
	7.5 / 5.5	B	8.125	6.25	18	13.1	6.0
	10 / 7.5	B	8.125	6.25	18	14.7	6.7
	15 / 11	B	8.125	6.25	18	16.5	7.5
	15 (XL) / 11	C	16	7.125	19	28.0	12.7





CONTROL BOXES - PARTS

QD 60 HZ

HP / Voltage	Model No.	Rating	No. Req.	Component Part No.	Kit Order No.
1/3 / 115	280 102 4915	Start Capacitor 159-191 MFD, 110 V	1	275 464 125	305 207 925
		QD Relay		223 415 905	305 101 905
1/3 / 230	280 103 4915	Start Capacitor 43-53 MFD, 220 V		275 464 126	305 207 926
		QD Relay		223 415 901	305 101 901
1/2 / 115	280 104 4915	Start Capacitor 250-300 MFD, 125 V		275 464 201	305 207 951
		QD Relay		223 415 906	305 101 906
1/2 / 230	280 105 4915	Start Capacitor 59-71 MFD, 220 V		275 464 105	305 207 905
		QD Relay		223 415 902	305 101 902
3/4 / 230	280 107 4915	Start Capacitor 86-103 MFD, 220 V		275 464 118	305 207 918
		QD Relay		223 415 903	305 101 903
1 / 230	280 108 4915	Start Capacitor 105-126 MFD, 220 V		275 464 113	305 207 913
		QD Relay		223 415 904	305 101 904
1/2 / 230	CRC 282 405 5015	Start Capacitor 43-53 MFD, 220 V		275 464 126	305 207 926
		Run Capacitor 15 MFD, 370 V		156 362 101	305 203 907
		QD Relay		223 415 912	305 105 901
3/4 / 230	CRC 282 407 5015	Start Capacitor 59-71 MFD, 220 V		275 464 105	305 207 905
		Run Capacitor 23 MFD, 370 V		156 362 102	305 203 908
		QD Relay		223 415 913	305 105 902
1 / 230	CRC 282 408 5015	Start Capacitor 86-103 MFD, 220 V		275 464 118	305 207 918
		Run Capacitor 23 MFD, 370 V		156 362 102	305 203 908
		QD Relay		223 415 914	305 105 903

QD 50 HZ

HP / Voltage	Model No.	Rating	No. Req.	Component Part No.	Kit Order No.
1/2 / 220	280 355 2115	Start Capacitor 43-53 MFD, 220 V	1	275 461 123	305 205 923
		Capacitor Overload Assembly		151 033 990	305 218 990
		QD Relay		223 415 915	305 105 904
3/4 / 220	280 357 2115	Start Capacitor 59-71 MFD, 220 V		275 461 108	305 205 908
		Capacitor Overload Assembly		151 033 989	305 218 989
		QD Relay		223 415 916	305 105 905
1 / 220	280 358 2115	Start Capacitor 86-103 MFD, 220 V		275 461 106	305 205 906
		Capacitor Overload Assembly		151 033 988	305 218 988
		QD Relay		233 451 917	305 105 906

NOTE: Some Franklin motors, controls, and parts are non-stock items and may need to be special ordered

CONTROL BOXES - PARTS

STANDARD 60 HZ

HP	Model No.	Rating	No. Req.	Component Part No.	Kit Order No.
1/1.5 - 4"	282 300 8110	Start Capacitor 105-126 MFD, 220 V	1	275 464 113	305 207 913
		Run Capacitor 15 MFD, 370 V		155 328 101	305 204 901
		Start Overload		275 411 114	305 215 914
		Run Overload		275 411 113	305 215 913
		Relay - 230 V*		155 031 102	305 213 902
2 - 4"	282 301 8110	Start Capacitor 105-126 MFD, 220 V		275 464 113	305 207 913
		Run Capacitor 20 MFD, 370 V		155 328 103	305 204 903
		Start Overload		275 411 117	305 215 917
		Run Overload		275 411 113	305 215 913
		Relay - 230 V*		155 031 102	305 213 902
3 - 4"	2823028110	Start Capacitor 208-250 MFD, 220 V		275 463 123	305 206 923
		Run Capacitor 45 MFD, 370 V		155 327 109	305 203 909
		Start Overload		275 411 118	305 215 918
		Run Overload		275 411 115	305 215 915
		Relay - 230 V*		155 031 102	305 213 902
5 - 4" & 6"	282 113 8110	Start Capacitor 216-259 MFD, 330 V		275 468 118	305 208 918
		Run Capacitor 40 MFD, 370 V	2	155 327 114	305 203 914
		Start Overload	1	275 411 119	305 215 919
		Run Overload		275 406 102	305 214 902
		Relay - 230 V*		155 031 601	305 213 961
7.5 - 6"	282 201 9210	Start Capacitor 270-324 MFD, 330 V		275 468 119	305 208 919
		Start Capacitor 130-154 MFD, 330 V		275 468 117	305 208 917
		Run Capacitor 45 MFD, 370 V		155 327 109	305 203 909
		Start Overload		275 411 102	305 215 902
		Run Overload		275 406 122	305 214 922
10 - 6"	282 202 9230	Relay - 230 V*		155 031 601	305 213 961
		Start Capacitor 270-324 MFD, 330 V	2	275 468 119	305 208 919
		Run Capacitor 35 MFD, 370 V		155 327 102	305 203 902
		Start Overload	1	275 406 103	305 214 903
		Run Overload		155 409 101	155 409 101
All	All	Relay - 230 V*		155 031 601	305 213 961
		Lightning Arrestor		150 814 902	150 814 902
208 V Relay *	208 V Relay *	Relay 1.5-3 hp (replaces 155031102)	1	155 031 103	305 213 903
		Relay 5-15 hp (replaces 155031601)		155 031 602	305 213 962

STANDARD 50 HZ

HP / Voltage	Model No.	Rating	No. Req.	Component Part No.	Kit Order No.
1.5 / 220	282 350 8110	Start Capacitor 105-126 MFD, 220 V	1	275 464 113	305 207 913
		Run Capacitor 10 MFD, 370 V		155 328 102	305 204 902
		Overload Assembly - Run		275 411 114	305 215 914
		Relay 220 V		155 031 112	305 213 912
		Start Capacitor 189-227 MFD, 220 V		275 468 115	305 208 915
2 / 220	282 351 8110	Run Capacitor 20 MFD, 370 V		155 328 103	305 204 903
		Overload Assembly - Run		275 411 102	305 215 902
		Overload Assembly - Start		275 411 106	305 215 906
		Relay 220 V		155 031 112	305 213 912
		Start Capacitor 270-324 MFD, 220 V		275 468 119	305 208 919
3 / 220	282 352 8110	Run Capacitor 35 MFD, 370 V		155 327 102	305 203 902
		Overload Assembly - Run		275 406 107	305 214 907
		Overload Assembly - Start		275 411 117	305 215 907
		Relay 220 V		155 031 112	305 213 912
		Start Capacitor 189-227 MFD, 220 V	2	275 468 115	305 208 915
5 / 220	282 253 9010	Run Capacitor 30 MFD, 220 V	1	155 327 101	305 203 901
		Run Capacitor 45 MFD, 220 V		155 327 109	305 203 909
		Overload Assembly - Run		275 406 102	305 214 902
		Overload Assembly - Start		275 411 102	305 215 902
		Relay 220 V		155 031 112	305 213 912

NOTE: Some Franklin motors, controls, and parts are not stock items and may need to be special ordered

* For 208 V systems or where line voltage is between 200 V and 210 V, a low voltage relay and larger cable are required: Use relay part number 305 213 903 in place of 305 213 902 on 1.5 through 3 hp applications; Use relay 305213962 for 5-15 hp applications; use the next size larger cable than is specified in the 230 V table; boost transformers are an alternative to special relay and cable.



CONTROL BOXES - PARTS

DELUXE

HP Size / Model No.	Model No.	Rating	No. Req.	Component Part No.	Kit Order No.
1/1.5 - 4"	282 300 8310	Start Capacitor 105-126 MFD, 220 V	1	275 464 113	305 207 913
		Run Capacitor 15 MFD, 370 V		155 328 101	305 204 901
		Start Overload		275 411 114	305 215 914
		Run Overload		275 411 113	305 215 913
		Contactactor		155 325 102	305 226 902
		Relay - 230 V*		155 031 102	305 213 902
2 - 4"	282 301 8310	Start Capacitor 105-126 MFD, 220 V	1	275 464 113	305 207 913
		Run Capacitor 20 MFD, 370 V		155 328 103	305 204 903
		Start Overload		275 411 117	305 215 917
		Run Overload		275 411 113	305 215 913
		Contactactor		155 325 102	305 226 902
		Relay - 230 V*		155 031 102	305 213 923
3 - 4"	282 302 8310	Start Capacitor 208-250 MFD, 220 V	1	275 463 123	305 206 911
		Run Capacitor 45 MFD, 370 V		155 327 109	305 203 909
		Start Overload		275 411 118	305 215 918
		Run Overload		275 411 115	305 215 915
		Contactactor		155 325 102	305 226 902
		Relay - 230 V*		155 031 102	305 213 902
5 - 4" & 6"	282 113 9310	Start Capacitor 216-259 MFD, 330 V	2	275 468 118	305 208 918
		Run Capacitor 40 MFD, 370 V		155 327 114	305 203 914
		Start Overload	1	275 411 119	305 215 919
		Run Overload		275 406 102	305 214 902
		Contactactor		155 326 101	305 347 903
		Relay - 230 V*		155 031 601	305 213 961
7.5 - 6"	282 201 9310	Start Capacitor 130-154 MFD, 330 V	1	275 468 117	305 208 917
		Start Capacitor 270-324 MFD, 330 V		275 468 119	305 208 919
		Run Capacitor 45 MFD, 370 V		155 327 109	305 203 909
		Start Overload		275 411 102	305 215 902
		Run Overload		275 406 121	305 214 921
		Contactactor		155 326 102	305 347 902
10 - 6"	282 202 9330	Start Capacitor 270-324 MFD, 330 V	2	275 468 119	305 208 919
		Run Capacitor 35 MFD, 370 V		155 327 102	305 203 902
		Start Overload	1	275 406 103	305 214 903
		Run Overload		155 409 101	-
		Contactactor		155 326 102	305 347 902
		Relay - 230 V*		155 031 601	305 213 961
15 - 6"	282 203 9330	Start Capacitor 270-324 MFD, 330 V	2	275 468 119	305 208 919
		Run Capacitor 45 MFD, 370 V	3	155 327 109	305 203 909
		Start Overload	1	275 406 103	305 214 903
		Run Overload		155 409 102	-
		Contactactor		155 429 101	305 347 901
		Relay - 230 V*		155 031 601	305 213 961
15 - 6"	282 203 9621 (X-Large Enclosure)	Start Capacitor 270-324 MFD, 330 V	2	275 468 119	305 208 919
		Run Capacitor 45 MFD, 370 V	3	155 327 109	305 203 909
		Start Overload	1	275 406 103	305 214 903
		Run Overload		155 409 102	-
		Contactactor		155 429 101	305 347 901
		Relay - 230 V*		155 031 601	305 213 961
All	All	Lightning Arrestor	2	150 814 902	150 814 902
208 V Relay*	208 V Relay*	Relay 1.5-3 hp (replaces 155 031 102)	1	155 031 103	305 213 903
		Relay 5-15 hp (replaces 155 031 601)		155 031 602	305 213 962

NOTE: Some Franklin motors, controls & parts are not stock items and may need to be special ordered

* For 208 V systems or where line voltage is between 200 V and 210 V, a low voltage relay and larger cable are required; Use relay part number 305 213 903 in place of 305 213 902 on 1.5 through 3 hp applications; Use relay 305213962 for 5-15 hp applications; use the next size larger cable than is specified in the 230 V table; boost transformers are an alternative to special relay and cable.