

FARADYNE MOTORS

A higher standard in submersible motors.





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OVERVIEW

Headquartered in Palmyra, NY, Faradyne Motors brings together over 250 years of collective pump and motor experience. In 2013, we achieved the milestone of manufacturing and selling over two million submersible motors. Today our products represent a seamless combination of advanced technology and superior construction in both the water and fuel industries. In other words, Faradyne Motors is committed to keeping our products – and our customers – on the leading edge.

Innovative Technology

From our inception, Faradyne Motors has focused on integrating superior material design and advanced manufacturing to ensure that the highest standards are achieved. Advanced manufacturing techniques such as precision laser welding and Helium mass spectrometry are applied to each motor in the manufacturing process.

Complete Customer Satisfaction

Nothing is more important to us than the satisfaction of our customers. Faradyne Motors teams with our customers to ensure that our products meet their specific needs. Working with our customers, we make certain that all designs meet the highest standards for quality, performance and reliability.

Superior Products

When leaders in the pump industry need motors, many of them turn to us. That is because Faradyne Motors has a proven record of providing motors that enhance the reliability, performance and quality of water system solutions. Whether it's a 3-Wire Capacitor Start or 2-Wire Permanent Split Capacitor design, our motors are specifically designed to meet and exceed the standards of the water well industry. As an additional assurance of quality, every Faradyne motor must pass a series of rigorous quality checks throughout the manufacturing process, including a comprehensive final performance test upon completed assembly.

THE FARADYNE DIFFERENCE

Laser Welded Stator Assembly

- Hermetically sealed to prevent water entry

Surge Arrestors

- Unique design helps optimize clamping voltage, energy absorption/dissipation and response time

Class F Magnet Wire and Major Insulation

- For superior heat resistance and prolonged life

304L Stainless Steel Shell

- For maximum corrosion resistance

Kingsbury Type Thrust Bearings

- Thrust Bearings with a minimum rating of 700lbs., 900lbs. or 1500lbs.

Drive Shaft

- 17-4pH hardened stainless steel shaft for superior corrosion and wear resistance

Sand Slinger

- Stamped stainless steel upper cover, slinger seat and boot are designed to prevent sand entry

Motor End Bells

- 100% stainless steel upper and lower end bells for superior corrosion resistance

Motor Leads

- Replaceable lead is held in place by 2 screws and has controlled compression for superior leak prevention
- Each lead is tested twice to 250 PSI



4" Motors

PREMIUM 2-WIRE MOTOR DATA

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

Type	Motor Catalog No.	HP	KW	Volts	SF	Full Load		Service Factor		Locked Rotor Amps	Winding Resistance
	Faradyne					Amps	Watts	Amps	Watts		
2-Wire (PSC)	FM4200511A-01	0.5	0.37	115	1.6	8.1	890	10.2	1110	28	1.4 - 2.0
	FM4200531A-01	0.5	0.37	230	1.6	4.3	845	4.8	1035	16	6.1 - 7.2
	FM4200731A-01	0.75	0.55	230	1.5	5.0	1100	6.4	1375	18	5.9 - 6.9
	FM4201031A-01	1.0	0.75	230	1.4	6.7	1450	8.2	1770	23.5	4.2 - 5.2
	FM4201531A-01	1.5	1.1	230	1.3	9.1	1950	10.5	2300	43	1.8 - 2.4

Single Phase, Two Wire PSC 4" Motors - Engineering Data

Type	Motor Catalog No.	HP	Volts	Efficiency %		Power Factor %		Thrust Rating	KVA Code
	Faradyne			F.L.	S.F.	F.L.	S.F.		
2-Wire (PSC)	FM4200511A-01	0.5	115	42.0	54.0	99.0	99.0	700 #	H
	FM4200531A-01	0.5	230	44.0	58.0	90.0	96.5		J
	FM4200731A-01	0.75	230	51.0	61.0	99.0	98.5		F
	FM4201031A-01	1.0	230	51.5	59.0	99.0	99.0		F
	FM4201531A-01	1.5	230	57.5	63.0	98.0	99.0		H

PREMIUM 3-WIRE MOTOR DATA

Single Phase, Three Wire 4" Motors - Electrical Data 60 Hertz, 3450 RPM

Type	Motor Catalog No.	HP	KW	Volts	SF	Full Load		Service Factor		Locked Rotor Amps	Winding Resistance		Required Control Box
	Faradyne					Amps	Watts	Amps	Watts		Main (B-Y)	Start (R-Y)	
3-Wire with CSIR Cap. Start Box	FM4300511A-01	0.5	0.37	115	1.6	Y-9.8 B-9.8 R-0	670	Y-11.6 B-11.6 R-0	980	44	1.0 - 1.4	2.5 - 3.1	FM005CB-IR1
	FM4300531A-01	0.5	0.37	230	1.6	Y-5.7 B-5.7 R-0	735	Y-6.3 B-6.3 R-0	1035	20.5	5.1 - 6.1	12.4 - 13.7	FM005CB-IR2
	FM4300731A-01	0.75	0.55		1.5	Y-6.7 B-6.7 R-0	940	Y-7.9 B-7.9 R-0	1335	32	2.6 - 3.3	10.4 - 11.7	FM007CB-IR2
	FM4301031A-01	1.0	0.75		1.4	Y-8.5 B-8.5 R-0	1175	Y-9.5 B-9.5 R-0	1590	41	2.0 - 2.6	9.3 - 10.4	FM010CB-IR2
3-Wire with CSCR or Magnetic Contactor Deluxe Control Box	FM4300531A-01	0.5	0.37		1.6	Y-4.4 B-4.3 R-1.9	715	Y-5.0 B-4.5 R-1.9	950	21	5.1 - 6.1	12.4 - 13.7	FM005CB-CR2
	FM4300731A-01	0.75	0.55		1.5	Y-4.6 B-4.6 R-2.6	920	Y-6.1 B-5.1 R-2.6	1235	32	2.6 - 3.3	10.4 - 11.7	FM007CB-CR2
	FM4301031A-01	1.0	0.75		1.4	Y-6.2 B-6.0 R-3.6	1165	Y-7.4 B-6.3 R-3.3	1490	41	2.0 - 2.6	9.3 - 10.4	FM010CB-CR2
	FM4301531A-01	1.5	1.1		1.3	Y-9.2 B-8.7 R-1.2	1660	Y-11.0 B-9.9 R-1.2	2110	49	2.1 - 2.5	10.0 - 10.8	FM015CB-CR2
	FM4302031A	2.0	1.5		1.25	Y-9.9 B-9.1 R-2.6	2170	Y-12.2 B-11.7 R-2.6	2660	49	1.6 - 2.2	4.8 - 5.9	FM020CB-CR2 or FM020CB-CR2-D
	FM4303031A	3.0	2.2		1.15	Y-14.3 B-12.0 R-5.7	3170	Y-16.5 B-13.9 R-5.6	3620	76	1.0 - 1.4	2.0 - 2.5	FM030CB-CR2 or FM030CB-CR2-D
	FM4305031A	5.0	3.7		1.15	Y-24.0 B-19.1 R-10.2	5300	Y-27.0 B-22.0 R-10.0	6030	101	0.6 - 0.8	1.3 - 1.7	FM050CB-CR2 or FM050CB-CR2-D

Single Phase, Three Wire 4" Motors - Engineering Data

Type	Motor Catalog No.	HP	KW	Volts	Efficiency %		Power Factor %		Thrust Rating	KVA Code
	Faradyne				F.L.	S.F.	F.L.	S.F.		
3-Wire with CSIR Control Box	FM4300511A-01	0.5	.37	115	55.5	61.0	63.0	77.0	700	M
	FM4300531A-01	0.5	.37	230	51.0	58.0	60.0	75.0		L
	FM4300731A-01	0.75	.55		60.0	63.0	64.0	78.0		L
	FM4301031A-01	1.0	0.75		63.5	66.0	63.0	76.0		L
3-Wire with CSCR or Magnetic Contactor Deluxe Control Box	FM4300531A-01	0.5	.37		52.0	63.0	75.0	86.0		L
	FM4300731A-01	0.75	0.55		61.0	68.0	86.0	93.0		L
	FM4301031A-01	1.0	0.75		64.0	70.0	85.0	91.0		L
	FM4301531A-01	1.5	1.1		68.0	69.0	82.0	87.0		J
	FM4302031A	2.0	1.5		68.0	69.0	96.0	95.0	900	G
	FM4303031A	3.0	2.2		72.0	72.0	96.0	97.0		G
	FM4305031A	5.0	3.7		70.5	71.0	97.0	97.5	1500	E

PREMIUM 3 PHASE MOTOR DATA

Three Phase, Three Wire, 4" Motors - Electrical Data 60 Hertz, 3450 RPM

Faradyne #	HP	KW	Volts	SF	Full Load		Service Factor		Locked Rotor Amps	Line - Line Resistance
					Amps	Watts	Amps	Watts		
FM4300523A	0.5	0.37	200	1.6	2.9	600	3.5	860	22	4.1 - 5.2
FM4300723A	0.75	0.55		1.5	3.9	820	4.7	1150	30	2.8 - 3.7
FM4301023A	1.0	0.75		1.4	4.8	1120	5.7	1470	34	2.2 - 3.1
FM4301523A	1.5	1.1		1.3	6.6	1650	7.6	1950	40	1.9 - 2.5
FM4302023A	2.0	1.5		1.25	8.0	1960	9.3	2455	51	1.4 - 2.0
FM4303023A	3.0	2.2		1.15	10.9	2890	12.0	3290	71	1.2 - 1.5
FM4305023A	5.0	3.7		1.15	18.3	4850	20.2	5515	113	.7 - .9
FM4307523A	7.5	5.5		1.15	27.0	7600	30.0	8800	165	.4 - .6
FM4300533A	0.5	0.37	230	1.6	2.4	575	3.0	860	18	5.7 - 7.2
FM4300733A	0.75	0.55		1.5	3.3	805	4.0	1160	27	3.3 - 4.3
FM4301033A	1.0	0.75		1.4	4.1	1070	4.9	1440	26	3.2 - 4.2
FM4301533A	1.5	1.1		1.3	5.8	1550	6.6	1950	36	2.5 - 3.1
FM4302033A	2.0	1.5		1.25	6.7	1965	8.0	2465	44	2.2 - 2.8
FM4303033A	3.0	2.2		1.15	9.2	2880	10.1	3280	59	1.6 - 2.0
FM4305033A	5.0	3.7		1.15	15.7	4925	17.5	5650	93	.9 - 1.3
FM4307533A	7.5	5.5		1.15	24.0	7480	26.4	8570	140	.5 - .9
FM4300553A	0.5	0.37	460	1.6	1.3	620	1.5	865	9	23.6 - 26.1
FM4300753A	0.75	0.55		1.5	1.7	825	2.0	1140	14	14.4 - 16.2
FM4301053A	1.0	0.75		1.4	2.2	1140	2.5	1460	15	16.8 - 18.6
FM4301553A	1.5	1.1		1.3	3.0	1540	3.4	1960	16	9.5 - 10.5
FM4302053A	2.0	1.5		1.25	3.6	1960	4.1	2440	23	7.5 - 9.3
FM4303053A	3.0	2.2		1.15	4.8	2920	5.3	3320	30	6.3 - 7.7
FM4305053A	5.0	3.7		1.15	7.6	4810	8.5	5530	48	3.9 - 4.9
FM4307553A	7.5	5.5		1.15	12.2	7400	13.5	8560	87	2.1 - 2.7
FM4310053A	10.0	7.5		1.15	15.6	9600	17.2	11000	110	1.8 - 2.2
FM4301563A	1.5	1.1	575	1.3	2.3	1540	2.6	1970	15	15.6 - 17.3
FM4302063A	2.0	1.5		1.25	2.7	1610	3.3	2400	21	10.2 - 12.5
FM4303063A	3.0	2.2		1.15	3.7	2850	4.1	3240	21	10.2 - 12.5
FM4305063A	5.0	3.7		1.15	7.0	5080	7.6	5750	55	3.6 - 4.2
FM4307563A	7.5	5.5		1.15	9.1	7260	10.0	8310	55	3.6 - 4.2

PREMIUM 3 PHASE MOTOR DATA

Three Phase, Three Wire 4" Motors - Engineering Data

Faradyne Order No.	HP	KW	Volts	Efficiency %		Power Factor %		Thrust Rating	KVA Code
				F.L.	S.F.	F.L.	S.F.		
FM4300523A	0.5	0.37	200	64.0	69.5	60.0	75.0	700#	R
FM4300723A	0.75	0.55		68.0	73.0	65.0	75.0		R
FM4301023A	1.0	0.75		69.0	73.0	71.0	79.0		N
FM4301523A	1.5	1.1		73.0	74.5	71.0	79.0		L
FM4302023A	2.0	1.5		76.0	76.0	74.0	79.5	900#	K
FM4303023A	3.0	2.2		77.0	77.0	77.0	80.0		K
FM4305023A	5.0	3.7		76.0	76.0	78.0	80.0	1500#	J
FM4307523A	7.5	5.5		74.0	74.0	81.0	85.0		J
FM4300533A	0.5	0.37	230	65.0	69.5	64.5	77.0	700#	R
FM4300733A	0.75	0.55		69.5	72.5	66.0	77.5		R
FM4301033A	1.0	0.75		70.0	72.5	69.0	78.0		M
FM4301533A	1.5	1.1		72.0	74.5	71.5	79.0		L
FM4302033A	2.0	1.5		76.0	75.5	78.0	82.5	900#	K
FM4303033A	3.0	2.2		77.0	77.0	78.0	81.0		J
FM4305033A	5.0	3.7		76.0	76.0	80.0	83.0	1500#	J
FM4307533A	7.5	5.5		75.0	75.0	79.0	83.0		J
FM4307533A	0.5	0.37	460	60.5	69.0	64.0	75.5	700#	R
FM4300753A	0.75	0.55		68.0	73.5	68.5	80.0		R
FM4301053A	1.0	0.75		65.5	71.5	70.0	76.0		N
FM4301553A	1.5	1.1		73.0	74.0	70.0	78.0		L
FM4302053A	2.0	1.5		76.0	76.5	73.5	79.0	900#	L
FM4303053A	3.0	2.2		77.0	77.0	78.0	81.0		J
FM4305053A	5.0	3.7		77.0	77.0	80.0	82.0	1500#	J
FM4307553A	7.5	5.5		76.0	76.0	77.0	80.0		L
FM4310053A	10.0	7.5		79.0	80.0	78.0	82.0		K
FM4301563A	1.5	1.1	575	73.0	74.0	73.0	82.5	700#	K
FM4302063A	2.0	1.5		78.0	78.0	61.0	74.0	900#	M
FM4303063A	3.0	2.2		78.0	78.0	79.0	81.0		J
FM4305063A	5.0	3.7		74.0	75.0	73.0	77.0	1500#	M
FM4307563A	7.5	5.5		77.0	77.0	82.0	85.0		J

4" Motors

4" SEVERE DUTY DATA

Single Phase, 3-Wire 4" Severe Duty Motors - Electrical Data 60 Hertz, 3450 RPM

Type	Faradyne #	HP	KW	Volts	SF	Full Load		Service Factor		Locked Rotor Amps	Winding Resistance		Required Control Box
						Amps	Watts	Amps	Watts		Main (B-Y)	Start (R-Y)	
3-Wire with CSCR or Magnetic Contractor Deluxe Control box	XD4302031A	2	1.5	230	1.25	Y - 9.9 B - 9.1 R - 2.6	2170	Y - 12.2 B - 11.7 R - 2.6	2660	49	1.6 - 2.2	4.8 - 5.9	FM020CB-CR2 or FM020CB-CR2-D
	XD4303031A	3	2.2		1.15	Y - 14.3 B - 12.0 R - 5.7	3170	Y - 16.5 B - 13.9 R - 5.6	3620	76	1.0 - 1.4	2.0 - 2.5	FM030CB-CR2 or FM030CB-CR2-D
	XD4305031A	5	3.7		1.15	Y - 24.0 B - 19.1 R - 10.2	5300	Y - 27.0 B - 22.0 R - 10.0	6030	101	0.6 - 0.8	1.3 - 1.7	FM050CB-CR2 or FM050CB-CR2-D

Single Phase, 3-Wire 4" Severe Duty Motors - Engineering Data

Type	Faradyne #	HP	Volts	Efficiency %		Power Factor %		Thrust Rating	KVA Code
				F.L.	S.F.	F.L.	S.F.		
3-Wire CSCR	XD4302031A	2	230	68.0	69.0	96.0	95.0	1500	G
	XD4303031A	3		72.0	72.0	96.0	97.0		G
	XD4305031A	5		70.5	71.0	97.0	97.5		E

Three Phase, 4" Severe Duty Motors - Electrical Data 60 Hertz, 3450 RPM

Faradyne #	HP	KW	Volts	SF	Full Load		Service Factor		Locked Rotor Arms	Line - Line Resistance
					Amps	Watts	Amps	Watts		
XD4303033A	3	5.5	230	1.15	9.2	2880	10.1	3280	59	1.6 - 2.0
XD4305033A	5	3.7		1.15	15.7	4925	17.5	5650	93	.9 - 1.3
XD4307533A	7.5	5.5		1.15	24.0	7480	26.4	8570	140	.5 - .9
XD4303053A	3	5.5	460	1.15	4.8	2920	5.3	3320	30	6.3 - 7.7
XD4305053A	5	3.7		1.15	7.6	4810	8.5	5530	48	3.9 - 4.9
XD4307553A	7.5	5.5		1.15	12.2	7400	13.5	8560	87	2.1 - 2.7
XD4310053A	10	7.5		1.15	15.6	9600	17.2	11000	110	1.8 - 2.2

Three Phase, Three Wire 4" Severe Duty Motors - Engineering Data

Faradyne #	HP	Volts	Efficiency %		Power Factor %		Thrust Rating	KVA Code
			F.L.	S.F.	F.L.	S.F.		
XD4303033A	3	230	77	77	78	81	1500#	J
XD4305033A	5		76	76	80	83		J
XD4307533A	7.5		75	75	79	83		J
XD4303053A	3	460	77	77	78	81		J
XD4305053A	5		77	77	80	82		J
XD4307553A	7.5		76	76	77	80		L
XD4310053A	10		79	80	78	82		K

4" STANDARD LINE DATA

Single Phase, Two Wire Standard PSC 4" Motors - Electrical Data 60Hz, 3450 RPM

Type	Faradyne #	HP	KW	Volts	SF
2-Wire (PSC)	FM4200511-E	0.5	0.37	115	1.6
	FM4200531-E	0.5	0.37	230	1.6
	FM4200731-E	0.75	0.55		1.5
	FM4201031-E	1.0	0.75		1.4
	FM4201531-E	1.5	1.1		1.3

Type	Full Load		Service Factor		Locked Rotor Amps	Winding Resistance
	Amps	Watts	Amps	Watts		
2-Wire (PSC)	8.4	880	10.0	1090	25	2.0 - 2.5
	4.2	870	5.1	1050	14	7.2 - 8.8
	4.8	1040	6.1	1325	17	5.7 - 7.1
	7.0	1570	8.0	1820	22	4.7 - 5.8
	9.0	1980	10.6	2350	34	2.7 - 3.3

Single Phase, Two Wire Standard PSC 4" Motors - Engineering Data

Type	Motor Catalog No. Faradyne #	HP	Volts	Efficiency %		Power Factor %		Thurst Rating	KVA Code
				F.L.	S.F.	F.L.	S.F.		
2-Wire (PSC)	FM4200511-E	0.5	115	42.5	55.0	98.0	99.0	700	G
	FM4200531-E	0.5	230	43.0	57.0	92.0	97.0		H
	FM4200731-E	0.75	230	54.0	63.5	99.0	99.0		F
	FM4201031-E	1.0	230	47.5	57.5	99.0	99.0		E
	FM4201531-E	1.5	230	56.5	62.0	99.0	99.0		F

4" STANDARD LINE DATA

Single Phase, Three Wire Standard 4" Motors - Engineering Data

Type	Motor Catalog No. Faradyne #	HP	Volts	Efficiency %		Power Factor %		Thurst Rating	KVA Code
				F.L.	S.F.	F.L.	S.F.		
3-Wire	FM4300511-E	0.5	115	54.0	58.5	68.0	8.2	700#	L
	FM4300531-E	0.5	230	52.0	56.8	66.0	71.3		K
	FM4300731-E	0.75	230	57.0	60.5	69.0	81.0		K
	FM4301031-E	1.0	230	60.5	62.6	74.0	82.0		K
	FM4301531-E	1.5	230	66.5	67.0	84.0	89.0		H

Single Phase, Three Wire Standard 4" Motors - Electrical Data 60Hz, 3450 RPM

Type	Faradyne #	HP	KW	Volts	SF	Amps	Watts	Amps	Watts	Locked Rotor Amps	Main (B-Y)	Start (R-Y)	KVA Code
3-Wire with CSIR Control Box	FM4300511-E	0.5	0.37	115	1.6	Y - 9.0 B - 9.0 R - 0	690	Y - 11.0 B - 11.0 R - 0	1020	41	1.5 - 1.9	3.1 - 3.9	L
	FM4300531-E	0.5	0.37	230	1.6	Y - 4.8 B - 4.8 R - 0	720	Y - 5.6 B - 5.6 R - 0	1055	18	6.2 - 7.7	13.0 - 16.0	K
	FM4300731-E	0.75	0.55		1.5	Y - 6.2 B - 6.2 R - 0	980	Y - 7.4 B - 7.4 R - 0	1390	29	4.0 - 4.9	9.5 - 11.6	K
	FM4301031-E	1.0	0.75		1.4	Y - 7.4 B - 7.4 R - 0	1235	Y - 9.0 B - 9.0 R - 0	1670	39	3.3 - 4.1	11.9 - 14.6	K
3-Wire with CSCR or Magnetic Contactor	FM4300531-E	0.5	0.37		1.6	Y - 3.7 B - 3.6 R - 1.7	690	Y - 4.6 B - 4.4 R - 1.6	950	18	6.2 - 7.7	13.0 - 16.0	K
	FM4300731-E	0.75	0.55		1.5	Y - 4.9 B - 4.8 R - 2.8	1000	Y - 6.1 B - 5.5 R - 2.6	1300	29	4.0 - 4.9	9.5 - 11.6	K
	FM4301031-E	1.0	0.75		1.4	Y - 5.7 B - 5.2 R - 3.0	1185	Y - 7.1 B - 5.9 R - 2.9	1495	39	3.3 - 4.1	11.9 - 14.6	K
	FM4301531-E	1.5	1.1		1.3	Y - 8.9 B - 8.5 R - 1.3	1685	Y - 10.7 B - 10.4 R - 1.2	2170	43	2.6 - 3.3	8.0 - 9.8	H

Single Phase, Three Wire Standard 4" Motors - Engineering Data

Type	Faradyne #	HP	Volts	Efficiency %		Power Factor %		Thrust Rating	KVA Code
				F.L.	S.F.	F.L.	S.F.		
3-Wire with CSIR Control Box	FM4300511-E	0.5	115	54.0	58.5	68.0	82.0	700#	L
	FM4300531-E	0.5	230	52.0	56.5	66.0	81.0		K
	FM4300731-E	0.75		57.0	60.5	69.0	81.0		K
	FM4301031-E	1.0		60.5	62.5	74.0	82.0		K
3-Wire with CSCR or Magnetic Contactor	FM4300531-E	0.5		54.0	63.0	85.0	94.0		K
	FM4300731-E	0.75		56.0	64.5	91.0	96.0		K
	FM4301031-E	1.0		63.0	70.0	92.0	95.0		K
	FM4301531-E	1.5		66.5	67.0	84.0	89.0		H

CONTROL BOX DATA

CSIR Control Boxes - Capacitor Start - Induction Run For use with Three Wire

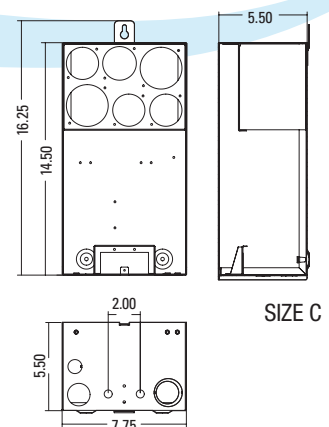
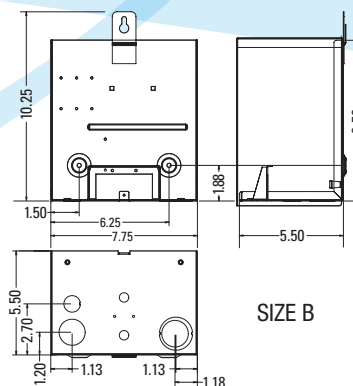
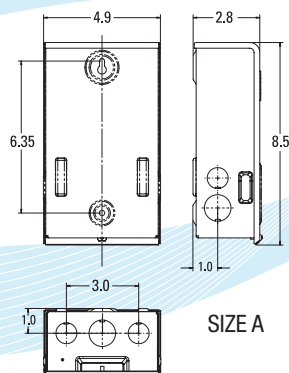
Control Box Catalog Number	Motor			Standard Circuit Breaker	Standard Fuse	Dual Element Time Delay Fuse	Enclosure Dimensions W X D X H (Inches)	Shipping Weight (Lbs.)
	HP	KW	Volts					
FM005CB-IR1	0.5	0.37	115	30	30	20	W 4.9 D 2.8 H 8.5	5
FM005CB-IR2	0.5	0.37	230	15	20	10		
FM007CB-IR2	0.75	0.55	230	20	20	15		
FM010CB-IR2	1.0	0.75	230	25	25	15		

CSCR Control Boxes - Capacitor Start - Capacitor Run For use with Three Wire

Control Box Catalog Number	HP	KW	Volts	Standard Circuit Breaker	Standard Fuse	Dual Element Time Delay Fuse	Enclosure Dimensions W X D X H (Inches)	Shipping Weight (Lbs.)
FM005CB-CR2	0.5	0.37	230	10	15	10	4.9 X 2.8 X 8.5	5
FM007CB-CR2	0.75	0.55		15	15	10		
FM010CB-CR2	1.0	0.75		15	20	15		
FM015CB-CR2	1.5	1.1		25	30	20	7.9 X 5.7 X 10.7	7
FM020CB-CR2	2.0	1.5		25	30	20		
FM030CB-CR2	3.0	2.2		40	45	25		
FM050CB-CR2	5.0	3.7		60	80	45		

Magnetic Contactor (Deluxe) Control Boxes For use with Three Wire

Control Box Catalog Number	HP	KW	Volts	Standard Circuit Breaker	Standard Fuse	Dual Element Time Delay Fuse	Enclosure Dimensions W X D X H (Inches)	Shipping Weight (Lbs.)
FM020CB-CR2-D	2.0	1.5	230	25	30	20	7.9 X 5.7 X 10.7	7
FM030CB-CR2-D	3.0	2.2	230	40	45	25		8
FM050CB-CR2-D	5.0	3.7	230	60	80	45	7.9 X 5.7 X 17.0	12



NOTE: Dimensions (in inches) are for estimating purposes only.

THE FARADYNE DIFFERENCE

Double Flange Pump Adapter:

- NEMA Standard Mounting
- Robust Design
- Eases Pump Assembly

Motor Lead:

- Full 17' Length
- Field Serviceable
- Controlled Compression for Reliable Seal
- Flying XLPE Leads

Molybdenum Infused Upthrust Bearing:

- Robust Against Applications with Upthrust
- Protection for Horizontal Operation

Stainless Steel for Excellent Corrosion Resistance and Long Life:

- Shell
- Fasteners
- Hardware

Thrust Bearing:

- 3,600lbs. to 10,000lbs. Ratings
- Industry-Proven Kingsbury Type

Magnetic Pipe Plug Keeps Debris Away from Bearings

17-4 PH Shaft Extension

- Excellent Corrosion Resistance
- Strong for Long Life

Sand Eliminator System has three Levels of Protection:

- Labrynth Sand Boot and Seat
- Lip Seal
- SiC/SiC Mechanical Seal

Filtered Motor Lubrication Replenishment

Insulation System:

- Class F Rating (155C)
- UR Listed
- Voidless Fill is Robust for VFD Operation

Modern Electrical Design:

- More Power per Inch of Stator
- Copper Bar Rotors to Maintain High Efficiencies

Epoxy-Coated End Frames:

- Corrosion Resistance
- Sleek Design

Pressure Compensation System:

- Equalizes Pressure to Well Conditions
- Springless Diaphragm
- Ensures Motor Has Lubrication
- Check Valve

6" SINGLE PHASE DATA

6" Motors Electrical Data

Type	Faradyne #	HP	KW	Volts	S.F.	Full Load		Service Factor		Locked Rotor Amps	Winding Resistance		Start Capacitance	Run Capacitance
						Amps	Watts	Amps	Watts		Main (B-Y)	Start (R-Y)		
3-Wire CSCR	FM6300531A	5	3.7	230	1.15	Y - 22.8 B - 16.5 R - 9.0	4975	Y - 26.0 B - 18.9 R - 8.9	5625	104	.54 - .67	1.7 - 2.1	238	60
	FM6300731A	7.5	5.5			Y - 35.2 B - 30.7 R - 8.3	7300	Y - 40.0 B - 35.1 R - 7.9	8300	162	.36 - .44	.76 - .94	415	60
	FM6301031A	10	7.5			Y - 45.7 B - 38.2 R - 12.7	9700	Y - 52.4 B - 45.1 R - 12.5	11175	202	.25 - .31	.69 - .85	475	100
	FM6301531A	15	11			Y - 62.4 B - 46.6 R - 19.9	13725	Y - 72.5 B - 54.7 R - 19.6	15825	296	.22 - .28	.61 - .75	475	140

6" Motors - Engineering Data

Type	Faradyne #	HP	KW	Volts	Efficiency %		Power Factor %		Thrust Rating	KVA Code
					F.L.	S.F.	F.L.	S.F.		
3-Wire CSCR	FM6300531A	5.0	3.7	230	74.5	75.5	97.0	97.0	3600#	E
	FM6300731A	7.5	5.5		77.0	77.5	92.0	92.5		F
	FM6301031A	10	7.5		76.5	76.5	94.0	94.0		E
	FM6301531A	15	11		81.5	81.5	98.0	98.0		E

6" THREE PHASE DATA

Three Phase, Three Wire 6" Motors Electrical Data

					Full Load		Service Factor			
Faradyne #	HP	KW	Volts	SF	Amps	Watts	Amps	Watts	Locked Rotor Amps	Line - Line Resistance
FM6300523A	5	3.7	200-208	1.15	16.1	4830	18.0	5490	96	.86 - 1.1
FM6300723A	7.5	5.5			23.3	7000	26.8	8070	140	.66 - .81
FM6301023A	10	7.5			31.5	9090	35.0	10400	187	.37 - .46
FM6301523A	15	11			44.9	13440	50.8	15460	268	.26 - .32
FM6302023A	20	15			59.0	17850	67.1	20630	354	.19 - .24
FM6302523A	25	19			76.8	22110	86.5	25520	445	.13 - .17
FM6303023A	30	22			91.7	26420	103.3	30450	530	.10 - .13
FM6300533A	5	3.7	230		14.4	4830	16.1	5490	87	1.1 - 1.4
FM6300733A	7.5	5.5			21.5	7000	24.1	8070	127	.73 - .90
FM6301033A	10	7.5			28.0	9090	31.5	10400	164	.50 - .62
FM6301533A	15	11			40.9	13440	46.3	15460	237	.33 - .41
FM6302033A	20	15			53.2	17850	60.8	20630	312	.25 - .31
FM6302533A	25	19			66.7	22110	76.0	25520	387	.18 - .22
FM6303033A	30	22			79.3	26420	90.2	30450	458	.15 - .19
FM6300553A	5	3.7	460		7.0	4830	8.0	5490	44	4.4 - 5.4
FM6300753A	7.5	5.5			10.0	7000	11.3	8070	62	2.9 - 3.6
FM6301053A	10	7.5			13.1	9090	14.8	10400	82	1.9 - 2.4
FM6301553A	15	11			20.4	13440	23.0	15460	117	1.1 - 1.4
FM6302053A	20	15			25.8	17850	29.4	20630	151	.9 - 1.1
FM6302553A	25	19			32.8	22110	36.8	25520	187	.69 - .85
FM6303053A	30	22			39.3	26420	44.6	30450	226	.58 - .72
FM6304053A	40	30	575		51.3	35030	58.6	40500	302	.45 - .56
FM6305053A	50	37			65.8	44350	75.1	51200	385	.35 - .43
FM6300563A	5	3.7			5.8	4830	6.5	5490	35	5.8 - 7.2
FM6300763A	7.5	5.5			8.2	7000	9.3	8070	51	3.6 - 4.4
FM6301063A	10	7.5			10.5	9090	11.8	10400	61	2.8 - 3.5
FM6301563A	15	11			15.0	13440	17.1	15460	88	1.9 - 2.4
FM6302063A	20	15			20.9	17850	23.7	20630	122	1.4 - 1.7
FM6302563A	25	19	26.2		22110	29.7	25520	153	1.0 - 1.3	
FM6303063A	30	22	31.0		26420	35.0	30450	179	.83 - 1.0	
FM6304063A	40	30	41.5		35030	47.3	40500	247	.64 - .79	

6" THREE PHASE DATA

Three Phase, Three Wire 6" Motors - Engineering Data

Faradyne #	HP	KW	Volts	Efficiency		Power Factor %		Thrust Rating	KVA Code
				F.L.	S.F.	F.L.	S.F.		
FM6300523A	5	3.7	200-208	77.5	78.5	86.5	88.0	3600	H
FM6300723A	7.5	5.5		80.0	80.0	87.5	88.5		
FM6301023A	10	7.5		82.5	82.5	86.5	88.0		
FM6301523A	15	11		83.5	83.5	87.0	88.5		
FM6302023A	20	15		83.0	83.0	87.5	89.0		
FM6302523A	25	19		84.0	84.0	85.5	87.5		
FM6303023A	30	22		84.5	84.5	86.0	87.5		
FM6300533A	5	3.7	230	77.5	78.5	86.5	88.0		G
FM6300733A	7.5	5.5		80.0	80.0	87.5	88.5		
FM6301033A	10	7.5		82.5	82.5	86.5	88.0		
FM6301533A	15	11		83.5	83.5	87.0	88.5		
FM6302033A	20	15		83.0	83.0	87.5	89.0		
FM6302533A	25	19		84.0	84.0	85.5	87.5		
FM6303033A	30	22		84.5	84.5	86.0	87.5		
FM6300553A	5	3.7	460	77.5	78.5	86.5	88.0	6750	H
FM6300753A	7.5	5.5		80.0	80.0	87.5	88.5		
FM6301053A	10	7.5		82.5	82.5	86.5	88.0		G
FM6301553A	15	11		83.5	83.5	87.0	88.5		
FM6302053A	20	15		83.0	83.0	87.5	89.0		
FM6302553A	25	19		84.0	84.0	85.5	87.5		
FM6303053A	30	22		84.5	84.5	86.0	87.5		
FM6304053A	40	30		85.0	85.0	87.5	89.0		
FM6305053A	50	37		84.0	84.0	87.0	88.0		
FM6300563A	5	3.7	575	77.5	78.5	86.5	88.0	3600	H
FM6300763A	7.5	5.5		80.0	80.0	87.5	88.5		
FM6301063A	10	7.5		82.5	82.5	86.5	88.0		G
FM6301563A	15	11		83.5	83.5	87.0	88.5		
FM6302063A	20	15		83.0	83.0	87.5	89.0		
FM6302563A	25	19		84.0	84.0	85.5	87.5		
FM6303063A	30	22		84.5	84.5	86.0	87.5		
FM6304063A	40	30		85.0	85.0	87.5	89.0	6750	

6" Motors

8" THREE PHASE DATA

Three Phase, Three Wire 8" Motors Electrical Data

					Full Load		Service Factor			
Faradyne #	HP	KW	Volts	SF	Amps	Watts	Amps	Watts	Locked Rotor Amps	Line - Line Resistance
FM8305053A	50	37	460	1.15	65	43675	74	49950	540	.21 - .26
FM8306053A	60	45			78	52225	89	59825	645	.19 - .24
FM8307553A	75	56			95	64850	109	74650	803	.15 - .19
FM8310053A	100	75			128	85075	146	98350	1080	.10 - .13
FM8312553A	125	93			165	110125	188	126825	1410	.07 - .09
FM8315053A	150	112			203	133025	228	151100	1643	.05 - .07
FM8305063A	50	37	575		52	43675	60	49950	439	.27 - .34
FM8306063A	60	45			61	52225	70	59825	518	.21 - .26
FM8307563A	75	56			76	64850	88	74650	645	.16 - .20
FM8310063A	100	75			100	85075	115	98350	855	.10 - .13
FM8312563A	125	93			129	110125	148	126825	1133	.10 - .13
FM8315063A	150	112			159	133025	178	151100	1320	.08 - .10
FM8305063A-X	50 (8x6)	37	460		65	43675	74	49950	540	.21 - .26
FM8306063A-X	60 (8x6)	45			78	52225	89	59825	645	.19 - .24

Three Phase, Three Wire 8" Motors - Engineering Data

Faradyne #	HP	KW	Volts	Efficiency		Power Factor %		Thrust Rating	KVA Code
				F.L.	S.F.	F.L.	S.F.		
FM8305053A	50	37	460	85.5	86.0	87.0	88.0	10000	K
FM8306053A	60	45		85.5	86.0	88.0	88.5		
FM8307553A	75	56		86.5	86.5	88.5	89.0		
FM8310053A	100	75		87.5	87.5	87.5	88.5		
FM8312553A	125	93		84.5	85.0	87.0	87.5		
FM8315053A	150	112		84.5	85.0	85.5	86.5		
FM8305063A	50	37	575	85.5	86.0	87.0	88.0		L
FM8306063A	60	45		85.5	86.0	88.0	88.5		
FM8307563A	75	56		86.5	86.5	88.5	89.0		
FM8310063A	100	75		87.5	87.5	87.5	88.5		
FM8312563A	125	93		84.5	85.0	87.0	87.5		
FM8315063A	150	112		84.5	85.0	85.5	86.5		
FM8305063A-X	50 (8x6)	37	460	85.5	86.0	87.0	88.0		K
FM8306063A-X	60 (8x6)	45		85.5	86.0	88.0	88.5		





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