
Submersible Wastewater Pump with Anti-Clog Technology

Model DKEU
Model DKEXU



Motor Data



EBARA

EBARA Pumps Americas Corporation

Motor Data

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Motor Data

ZXDL-4P 60Hz 208V - 2 to 5hp Non ICS (Standard) and ICS (Option)

Nameplate Rating	Model	ZXDL	ZXDL	ZXDL	ZXDL	ZXDL	ZXDL
	Output - kW/HP	1.5 / 2		2.2 / 3		3.7 / 5	
	Cooling system	Non-ICS	ICS	Non - ICS	ICS	Non-ICS	ICS
	Phase	3	3	3	3	3	3
	Poles	4	4	4	4	4	4
	Volts	208	208	208	208	208	208
	Frequency	60	60	60	60	60	60
	Amps	6.4	6.4	9.9	10.2	15.5	15.7
	Speed - min ⁻¹	1725	1725	1750	1750	1735	1735
	Insulation Class	H	H	H	H	H	H
	Service Factor	1.15	1.15	1.15	1.15	1.15	1.15
Frame Size	145	145	160	160	160	160	
Bearing Size	Power Slide	6306ZZ	6306ZZ	5307ZZ	5307ZZ	5307ZZ	5307ZZ
	Opposite Side	6204ZZ	6204ZZ	6205ZZ	6205ZZ	6205ZZ	6205ZZ
No Load Test	Amps	2.88	2.88	3.83	3.83	4.8	4.8
	Watts	118.8	118.8	179.7	179.7	234	234
Resistance at 20°C (with Cable 50ft)	Ohms	1.8368	1.8368	1.1413	1.1413	0.8859	0.8859
Cable Size	AWG No.	14	14	14	14	14	14
75% Load	Current - Amps	5.16	5.16	8.07	8.35	12.07	12.2
	Efficiency - %	75.06	75.06	69.35	66.3	76.04	75.29
	Power Factor - %	80.61	80.61	81.88	82.73	83.92	83.88
	Speed - min ⁻¹	1749	1749	1762	1760	1753	1752
100% Load	Current - Amps	6.4	6.4	9.9	10.2	15.5	15.7
	Efficiency - %	76.52	76.52	72.1	69.67	76.63	76.06
	Power Factor - %	85.69	85.69	86.03	86.45	86.28	85.69
	Speed - min ⁻¹	1725	1725	1751	1751	1736	1735
Locked Rotor Torque-%	349	349	150	150	114	113	
Start Current-Amps	48.9	48.9	56.8	56.8	73.8	73.8	
NEMA MG- 1 Design Letter	B	B	B	B	B	B	
Voltage Tolerance with Rated Frequency	±10%	±10%	±10%	±10%	±10%	±10%	
Frequency Tolerance with Rated Voltage	±5%	±5%	±5%	±5%	±5%	±5%	
Combined Tolerance of Voltage and Frequency (Frequency Tolerance: ±5%)	±10%	±10%	±10%	±10%	±10%	±10%	
Max. Cable Length - (m/ft)	110/361	110/361	71/233	68/223	45/148	44/144	



Motor Data

ZXDL-4P 60Hz 208V - 7.5 to 30hp ICS (Standard)

Nameplate Rating	Model	ZXDL	ZXDL	ZXDL	ZXDL	ZXDL	ZXDL
	Output - kW/HP	5.5 / 7.5	7.5 / 10	11 / 15	15 / 20	18.5 / 25	22 / 30
	Cooling system	ICS	ICS	ICS	ICS	ICS	ICS
	Phase	3	3	3	3	3	3
	Poles	4	4	4	4	4	4
	Volts	208	208	208	208	208	208
	Frequency	60	60	60	60	60	60
	Amps	22.7	30	41.9	56.1	66.3	79.3
	Speed - min ⁻¹	1755	1755	1760	1765	1770	1770
	Insulation Class	H	H	H	H	H	H
	Service Factor	1.15	1.15	1.15	1.15	1.15	1.15
Frame Size	180	180	220	220	260	260	
Bearing Size	Power Slide	5309ZZ	5309ZZ	6310ZZ DR	6310ZZ DR	6312ZZ DR	6312ZZ DR
	Opposite Side	6306ZZ	6306ZZ	6308ZZ	6308ZZ	6309ZZ	6309ZZ
No Load Test	Amps	8.34	11.57	16.31	21.27	20.44	25.68
	Watts	320.4	410.5	440.9	579.1	501.8	612
Resistance at 20°C (with Cable 50ft)	Ohms	0.395	0.3262	0.1695	0.1238	0.0843	0.0701
Cable Size	AWG No.	10	10	6	6	3	3
75% Load	Current - Amps	18.01	23.8	33.22	44.34	51.84	62.2
	Efficiency - %	78.85	82.35	84.66	85.51	87.29	87.2
	Power Factor - %	80.65	79.67	81.44	82.36	85.11	84.45
	Speed - min ⁻¹	1769	1768	1773	1774	1779	1778
100% Load	Current - Amps	22.7	30	41.9	56.1	66.3	79.3
	Efficiency - %	80.18	83.58	85.71	86.51	88.39	88.19
	Power Factor - %	83.76	82.72	85.69	86.29	87.48	87.21
	Speed - min ⁻¹	1757	1756	1762	1765	1770	1771
Locked Rotor Torque-%	109	117	162	165	134	159	
Start Current-Amps	127.2	173.6	258.8	360.8	395	533.6	
NEMA MG- 1 Design Letter	B	B	B	B	B	B	
Voltage Tolerance with Rated Frequency	±10%	±10%	±10%	±10%	±10%	±10%	
Frequency Tolerance with Rated Voltage	±5%	±5%	±5%	±5%	±5%	±5%	
Combined Tolerance of Voltage and Frequency (Frequency Tolerance: ±5%)	±10%	±10%	±10%	±10%	±10%	±10%	
Max. Cable Length - (m/ft)	80/262	61/200	105/344	78/256	134/440	112/367	



Motor Data

ZXDL-4P 60Hz 230V - 2 to 5hp Non ICS (Standard) and ICS (Option)

Nameplate Rating	Model	ZXDL	ZXDL	ZXDL	ZXDL	ZXDL	ZXDL
	Output - kW/HP	1.5 / 2		2.2 / 3		3.7 / 5	
	Cooling system	Non-ICS	ICS	Non - ICS	ICS	Non-ICS	ICS
	Phase	3	3	3	3	3	3
	Poles	4	4	4	4	4	4
	Volts	230	230	230	230	230	230
	Frequency	60	60	60	60	60	60
	Amps	6.2	6.2	9.2	9.4	14.4	14.6
	Speed - min ⁻¹	1745	1745	1760	1760	1750	1750
	Insulation Class	H	H	H	H	H	H
	Service Factor	1.15	1.15	1.15	1.15	1.15	1.15
Frame Size	145	145	160	160	160	160	
Bearing Size	Power Slide	6306ZZ	6306ZZ	5307ZZ	5307ZZ	5307ZZ	5307ZZ
	Opposite Side	6204ZZ	6204ZZ	6205ZZ	6205ZZ	6205ZZ	6205ZZ
No Load Test	Amps	3.31	3.31	4.81	4.81	6.03	6.03
	Watts	140	140	207	207	304.2	304.2
Resistance at 20°C (with Cable 50ft)	Ohms	1.8368	1.8368	1.1413	1.1413	0.8859	0.8859
Cable Size	AWG No.	14	14	14	14	14	14
75% Load	Current - Amps	5.09	5.09	7.68	7.8	11.6	11.65
	Efficiency - %	74.34	74.34	74.26	72.42	76.17	75.71
	Power Factor - %	74.57	74.57	72.64	73.3	78.86	78.98
	Speed - min ⁻¹	1760	1760	1771	1771	1767	1767
100% Load	Current - Amps	6.2	6.2	9.2	9.4	14.4	14.6
	Efficiency - %	76.48	76.48	76.34	75.14	77.44	77.08
	Power Factor - %	79.92	79.92	78.51	78.68	83.08	83.13
	Speed - min ⁻¹	1749	1749	1763	1762	1754	1753
Locked Rotor Torque-%	412	412	180	180	137	137	
Start Current-Amps	54.7	54.7	64.5	64.5	83.9	83.9	
NEMA MG- 1 Design Letter	B	B	B	B	B	B	
Voltage Tolerance with Rated Frequency	±10%	±10%	±10%	±10%	±10%	±10%	
Frequency Tolerance with Rated Voltage	±5%	±5%	±5%	±5%	±5%	±5%	
Combined Tolerance of Voltage and Frequency (Frequency Tolerance: ±5%)	±10%	±10%	±10%	±10%	±10%	±10%	
Max. Cable Length - (m/ft)	134/440	134/440	92/302	90/295	55/180	55/180	



Motor Data

ZXDL-4P 60Hz 230V - 7.5 to 30hp ICS (Standard)

Nameplate Rating	Model	ZXDL	ZXDL	ZXDL	ZXDL	ZXDL	ZXDL
	Output - kW/HP	5.5 / 7.5	7.5 / 10	11 / 15	15 / 20	18.5 / 25	22 / 30
	Cooling system	ICS	ICS	ICS	ICS	ICS	ICS
	Phase	3	3	3	3	3	3
	Poles	4	4	4	4	4	4
	Volts	230	230	230	230	230	230
	Frequency	60	60	60	60	60	60
	Amps	21.6	28.6	40	53.6	63	75.4
	Speed - min ⁻¹	1765	1760	1770	1770	1770	1775
	Insulation Class	H	H	H	H	H	H
	Service Factor	1.15	1.15	1.15	1.15	1.15	1.15
Frame Size	180	180	220	220	260	260	
Bearing Size	Power Side	5309ZZ	5309ZZ	6310ZZ DR	6310ZZ DR	6312ZZ DR	6312ZZ DR
	Opposite Side	6306ZZ	6306ZZ	6308ZZ	6308ZZ	6309ZZ	6309ZZ
No Load Test	Amps	10.74	13.66	20.3	26.05	25.69	32.84
	Watts	428.4	458.4	585	756.8	646.2	792
Resistance at 20°C (with Cable 50ft)	Ohms	0.395	0.3262	0.1695	0.1238	0.0843	0.0701
Cable Size	AWG No.	10	10	6	6	3	3
75% Load	Current - Amps	17.92	23.2	33.12	44.04	50.58	60.64
	Efficiency - %	78.41	81.86	84.08	84.61	86.22	87.57
	Power Factor - %	73.68	74.36	74.37	75.78	79.86	78
	Speed - min ⁻¹	1774	1772	1777	1779	1780	1783
100% Load	Current - Amps	21.6	28.6	40	53.6	63	75.4
	Efficiency - %	80.96	83.49	85.86	86.02	87.49	88.94
	Power Factor - %	78.87	78.81	80.27	81.47	84.26	83
	Speed - min ⁻¹	1769	1762	1770	1772	1773	1776
Locked Rotor Torque-%	132	143	195	198	160	190	
Start Current-Amps	143.6	197.4	291.2	405.6	439	594.2	
NEMA MG- 1 Design Letter	B	B	B	B	B	B	
Voltage Tolerance with Rated Frequency	±10%	±10%	±10%	±10%	±10%	±10%	
Frequency Tolerance with Rated Voltage	±5%	±5%	±5%	±5%	±5%	±5%	
Combined Tolerance of Voltage and Frequency (Frequency Tolerance: ±5%)	±10%	±10%	±10%	±10%	±10%	±10%	
Max. Cable Length - (m/ft)	98/321	74/243	130/426	95/312	162/531	137/449	



Motor Data

ZXDL-4P 60Hz 460V - 2 to 5hp Non ICS(Standard) and ICS(Optional)

Nameplate Rating	Model	ZXDL	ZXDL	ZXDL	ZXDL	ZXDL	ZXDL
	Output - kW/HP	1.5 / 2		2.2 / 3		3.7 / 5	
	Cooling system	Non-ICS	ICS	Non - ICS	ICS	Non-ICS	ICS
	Phase	3	3	3	3	3	3
	Poles	4	4	4	4	4	4
	Volts	460	460	460	460	460	460
	Frequency	60	60	60	60	60	60
	Amps	3.1	3.1	4.6	4.7	7.2	7.3
	Speed - min ⁻¹	1745	1745	1760	1760	1750	1750
	Insulation Class	H	H	H	H	H	H
	Service Factor	1.15	1.15	1.15	1.15	1.15	1.15
Frame Size	145	145	160	160	160	160	
Bearing Size	Power Slide	6306ZZ	6306ZZ	5307ZZ	5307ZZ	5307ZZ	5307ZZ
	Opposite Side	6204ZZ	6204ZZ	6205ZZ	6205ZZ	6205ZZ	6205ZZ
No Load Test	Amps	1.66	1.66	2.41	2.41	3.02	3.02
	Watts	140.4	140.4	207	207	304.2	304.2
Resistance at 20°C (with Cable 50ft)	Ohms	6.6039	6.6039	3.8217	3.8217	2.8001	2.8001
Cable Size	AWG No.	14	14	14	14	14	14
75% Load	Current - Amps	2.55	2.55	3.84	3.94	5.8	5.83
	Efficiency - %	74.34	74.34	74.26	71.59	76.17	75.71
	Power Factor - %	74.59	74.59	72.56	73.48	78.81	78.92
	Speed - min ⁻¹	1760	1760	1771	1771	1767	1767
100% Load	Current - Amps	3.1	3.1	4.6	4.7	7.2	7.3
	Efficiency - %	76.48	76.48	76.34	74.49	77.44	77.08
	Power Factor - %	79.88	79.88	78.42	78.77	83.07	83.13
	Speed - min ⁻¹	1749	1749	1763	1761	1754	1753
Locked Rotor Torque-%	412	412	180	180	137	137	
Start Current-Amps	27.4	27.4	32.3	32.3	42	42	
NEMA MG- 1 Design Letter	B	B	B	B	B	B	
Voltage Tolerance with Rated Frequency	±10%	±10%	±10%	±10%	±10%	±10%	
Frequency Tolerance with Rated Voltage	±5%	±5%	±5%	±5%	±5%	±5%	
Combined Tolerance of Voltage and Frequency (Frequency Tolerance: ±5%)	±10%	±10%	±10%	±10%	±10%	±10%	
Max. Cable Length - (m/ft)	536/1758	536/1758	368/1207	360/1181	220/722	220/722	



Motor Data

ZXDL-4P 60Hz 460V - 7.5 to 30hp ICS(Standard)

Nameplate Rating	Model	ZXDL	ZXDL	ZXDL	ZXDL	ZXDL	ZXDL
	Output - kW/HP	5.5 / 7.5	7.5 / 10	11 / 15	15 / 20	18.5 / 25	22 / 30
	Cooling system	ICS	ICS	ICS	ICS	ICS	ICS
	Phase	3	3	3	3	3	3
	Poles	4	4	4	4	4	4
	Volts	460	460	460	460	460	460
	Frequency	60	60	60	60	60	60
	Amps	10.8	14.3	20	26.8	31.5	37.7
	Speed - min ⁻¹	1765	1760	1770	1770	1770	1775
	Insulation Class	H	H	H	H	H	H
	Service Factor	1.15	1.15	1.15	1.15	1.15	1.15
Frame Size		180	180	220	220	260	260
Bearing Size	Power Slide	5309ZZ	5309ZZ	6310ZZ DR	6310ZZ DR	6312ZZ DR	6312ZZ DR
	Opposite Side	6306ZZ	6306ZZ	6308ZZ	6308ZZ	6309ZZ	6309ZZ
No Load Test	Amps	5.37	6.83	10.15	13.02	12.84	16.42
	Watts	428.4	458.4	585	756.8	646.2	792
Resistance at 20°C (with Cable 50ft)	Ohms	1.2849	1.0096	0.5592	0.3762	0.2794	0.2228
Cable Size	AWG No.	10	10	6	6	3	3
75% Load	Current - Amps	8.96	11.6	16.52	22.02	25.29	30.32
	Efficiency - %	78.41	81.86	84.4	84.61	86.22	87.57
	Power Factor - %	73.68	74.36	74.27	75.79	79.85	78
	Speed - min ⁻¹	1774	1772	1777	1779	1780	1783
100% Load	Current - Amps	10.8	14.3	20	26.8	31.5	37.7
	Efficiency - %	80.96	83.49	85.88	86.02	87.49	88.94
	Power Factor - %	78.87	78.81	80.27	81.49	84.25	83
	Speed - min ⁻¹	1769	1762	1770	1772	1773	1776
Locked Rotor Torque-%		132	143	195	198	160	190
Start Current-Amps		71.8	98.7	145.6	202.8	219.5	297.1
NEMA MG- 1 Design Letter		B	B	B	B	B	B
Voltage Tolerance with Rated Frequency		±10%	±10%	±10%	±10%	±10%	±10%
Frequency Tolerance with Rated Voltage		±5%	±5%	±5%	±5%	±5%	±5%
Combined Tolerance of Voltage and Frequency (Frequency Tolerance: ±5%)		±10%	±10%	±10%	±10%	±10%	±10%
Max. Cable Length - (m/ft)		392/1286	296/971	520/1706	380/1246	648/2125	548/1797



Motor Data

ZXDL-4P 60Hz 575V - 2 to 5hp Non ICS(Standard) and ICS(Option)

Nameplate Rating	Model	ZXDL	ZXDL	ZXDL	ZXDL	ZXDL	ZXDL
	Output - kW/HP	1.5 / 2		2.2 / 3		3.7 / 5	
	Cooling system	Non-ICS	ICS	Non - ICS	ICS	Non-ICS	ICS
	Phase	3	3	3	3	3	3
	Poles	4	4	4	4	4	4
	Volts	575	575	575	575	575	575
	Frequency	60	60	60	60	60	60
	Amps	2.4	2.5	3.6	3.8	5.8	5.8
	Speed - min ⁻¹	1750	1745	1765	1760	1755	1755
	Insulation Class	H	H	H	H	H	H
	Service Factor	1.15	1.15	1.15	1.15	1.15	1.15
Frame Size		145	145	160	160	160	160
Bearing Size	Power Slide	6306ZZ	6306ZZ	5307ZZ	5307ZZ	5307ZZ	5307ZZ
	Opposite Side	6204ZZ	6204ZZ	6205ZZ	6205ZZ	6205ZZ	6205ZZ
No Load Test	Amps	1.32	1.32	1.92	1.92	2.41	2.41
	Watts	140.4	140.4	207.0	207.0	304.2	304.2
Resistance at 20°C (with Cable 50ft)	Ohms	10.8477	10.8477	5.8948	5.8948	4.4198	4.4198
Cable Size	AWG No.	14	14	14	14	14	14
75% Load	Current - Amps	1.99	2.05	2.98	3.15	4.62	4.62
	Efficiency - %	77.13	73.48	77.99	71.64	76.68	76.68
	Power Factor - %	73.47	74.90	71.29	73.53	78.72	78.72
	Speed - min ⁻¹	1761	1760	1772	1771	1767	1767
100% Load	Current - Amps	2.4	2.5	3.6	3.80	5.80	5.80
	Efficiency - %	78.59	75.77	79.59	74.34	77.75	77.77
	Power Factor - %	79.62	80.04	77.51	78.74	82.78	82.77
	Speed - min ⁻¹	1750	1748	1766	1763	1755	1755
Locked Rotor Torque-%		413	412	181	180	137	137
Start Current-Amps		21.9	21.9	25.8	25.8	33.6	33.6
NEMA MG- 1 Design Letter		B	B	B	B	B	B
Voltage Tolerance with Rated Frequency		±10%	±10%	±10%	±10%	±10%	±10%
Frequency Tolerance with Rated Voltage		±5%	±5%	±5%	±5%	±5%	±5%
Combined Tolerance of Voltage and Frequency (Frequency Tolerance: ±5%)		±10%	±10%	±10%	±10%	±10%	±10%
Max. Cable Length - (m/ft)		874/2870	835/2740	599/1965	558/1832	348/1142	348/1142



Motor Data

ZXDL 4-P 60Hz 575V - 7.5 to 60hp ICS(Standard)

Nameplate Rating	Model	ZXDL	ZXDL	ZXDL	ZXDL	ZXDL	ZXDL
	Output - kW/HP	5.5 / 7.5	7.5 / 10	11 / 15	15 / 20	18.5 / 25	22 / 30
	Cooling system	ICS	ICS	ICS	ICS	ICS	ICS
	Phase	3	3	3	3	3	3
	Poles	4	4	4	4	4	4
	Volts	575	575	575	575	575	575
	Frequency	60	60	60	60	60	60
	Amps	8.7	11.6	16	21.6	25.2	30.4
	Speed - min ⁻¹	1765	1760	1765	1770	1770	1775
	Insulation Class	H	H	H	H	H	H
	Service Factor	1.15	1.15	1.15	1.15	1.15	1.15
Frame Size		180	180	220	220	260	260
Bearing Size	Power Slide	5309ZZ	5309ZZ	6310ZZ DR	6310ZZ DR	6312ZZ DR	6312ZZ DR
	Opposite Side	6306ZZ	6306ZZ	6308ZZ	6308ZZ	6309ZZ	6309ZZ
No Load Test	Amps	4.30	5.46	8.12	10.42	10.28	13.14
	Watts	428.4	458.4	585.0	756.8	646.2	792.0
Resistance at 20°C (with Cable 50ft)	Ohms	2.0593	1.5413	0.8594	0.5684	0.4360	0.3325
Cable Size	AWG No.	10	10	6	6	3	3
75% Load	Current - Amps	7.14	9.43	13.22	17.72	20.21	24.56
	Efficiency - %	78.87	80.02	84.41	83.86	86.36	86.04
	Power Factor - %	78.53	74.86	74.26	76.01	79.82	78.40
	Speed - min ⁻¹	1775	1772	1777	1778	1780	1782
100% Load	Current - Amps	8.70	11.60	16.00	21.60	25.20	30.40
	Efficiency - %	81.49	82.20	85.97	85.59	87.49	87.83
	Power Factor - %	78.45	79.31	80.06	81.40	84.04	82.96
	Speed - min ⁻¹	1768	1763	1768	1770	1773	1775
Locked Rotor Torque-%		132	143	195	198	160	190
Start Current-Amps		57.4	79.0	116.5	162.3	175.6	237.7
NEMA MG- 1 Design Letter		B	B	B	B	B	B
Voltage Tolerance with Rated Frequency		±10%	±10%	±10%	±10%	±10%	±10%
Frequency Tolerance with Rated Voltage		±5%	±5%	±5%	±5%	±5%	±5%
Combined Tolerance of Voltage and Frequency (Frequency Tolerance: ±5%)		±10%	±10%	±10%	±10%	±10%	±10%
Max. Cable Length - (m/ft)		617/2024	457/1502	815/2676	594/1949	1015/3332	852/2798

