
Submersible Wastewater Pump with Anti-Clog Technology

Model DKEU
Model DKEXU



Motor Data

Motor Data

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

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



Motor Data

ZXDL-4P 60Hz 208V 2-5hp ICS(Optional)

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



Motor Data

ZXDL-4P 60Hz 208V 7.5-30hp 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 Side	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 2-5hp Non ICS(Standard)

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



Motor Data

ZXDL-4P 60Hz 230V 2-5hp ICS(Optional)

Nameplate Rating	Model	ZXDL	ZXDL	ZXDL
	Output – kW/HP	1.5 / 2	2.2 / 3	3.7 / 5
	Cooling system	ICS	ICS	ICS
	Phase	3	3	3
	Poles	4	4	4
	Volts	230	230	230
	Frequency	60	60	60
	Amps	6.2	9.4	14.6
	Speed - min ⁻¹	1745	1760	1750
	Insulation Class	H	H	H
	Service Factor	1.15	1.15	1.15
	Frame size		145	160
Bearing Size	Power Side	6306ZZ	5307ZZ	5307ZZ
	Opposite Side	6204ZZ	6205ZZ	6205ZZ
No Load Test	Amps	3.31	4.81	6.03
	Watts	140	207	304.2
Resistance at 20°C (with Cable 50ft)	Ohms	1.8368	1.1413	0.8859
Cable Size	AWG No.	14	14	14
75% Load	Current - Amps	5.09	7.80	11.65
	Efficiency - %	74.34	72.42	75.71
	Power factor - %	74.57	73.30	78.98
	Speed - min ⁻¹	1760	1771	1767
100% Load	Current - Amps	6.20	9.40	14.60
	Efficiency - %	76.48	75.14	77.08
	Power factor - %	79.92	78.68	83.13
	Speed - min ⁻¹	1749	1762	1753
Locked Rotor Torque - %		412	180	137
Start Current - Amps		54.7	64.5	83.9
NEMA MG-1 Design Letter		B	B	B
Voltage Tolerance with Rated Frequency		+/-10%	+/-10%	+/-10%
Frequency Tolerance with Rated Voltage		+/-5%	+/-5%	+/-5%
Combined Tolerance of Voltage and Frequency (Frequency Tolerance: +/-5%)		+/-10%	+/-10%	+/-10%
Max. Cable Length - (m/ft)		134/440	90/295	55/180



Motor Data

ZXDL-4P 60Hz 230V 7.5-30hp 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	439.0	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 2-5hp Non ICS(Standard)

Nameplate Rating	Model	ZXDL	ZXDL	ZXDL
	Output – kW/HP	1.5 / 2	2.2 / 3	3.7 / 5
	Cooling system	Non-ICS	Non-ICS	Non-ICS
	Phase	3	3	3
	Poles	4	4	4
	Volts	460	460	460
	Frequency	60	60	60
	Amps	3.1	4.6	7.2
	Speed - min ⁻¹	1745	1760	1750
	Insulation Class	H	H	H
	Service Factor	1.15	1.15	1.15
Frame size		145	160	160
Bearing Size	Power Side	6306ZZ	5307ZZ	5307ZZ
	Opposite Side	6204ZZ	6205ZZ	6205ZZ
No Load Test	Amps	1.66	2.41	3.02
	Watts	140.4	207.0	304.2
Resistance at 20°C (with Cable 50ft)	Ohms	6.6039	3.8217	2.8001
Cable Size	AWG No.	14	14	14
75% Load	Current - Amps	2.55	3.84	5.80
	Efficiency - %	74.34	74.26	76.17
	Power factor - %	74.59	72.56	78.81
	Speed - min ⁻¹	1760	1771	1767
100% Load	Current - Amps	3.10	4.60	7.20
	Efficiency - %	76.48	76.34	77.44
	Power factor - %	79.88	78.42	83.07
	Speed - min ⁻¹	1749	1763	1754
Locked Rotor Torque - %		412	180	137
Start Current - Amps		27.4	32.3	42.0
NEMA MG-1 Design Letter		B	B	B
Voltage Tolerance with Rated Frequency		+/-10%	+/-10%	+/-10%
Frequency Tolerance with Rated Voltage		+/-5%	+/-5%	+/-5%
Combined Tolerance of Voltage and Frequency (Frequency Tolerance: +/-5%)		+/-10%	+/-10%	+/-10%
Max. Cable Length - (m/ft)		536/1758	368/1207	220/722



Motor Data

ZXDL 4-P 60Hz 460V 2-5hp ICS(Optional)

Nameplate Rating	Model	ZXDL	ZXDL	ZXDL
	Output – kW/HP	1.5 / 2	2.2 / 3	3.7 / 5
	Cooling system	ICS	ICS	ICS
	Phase	3	3	3
	Poles	4	4	4
	Volts	460	460	460
	Frequency	60	60	60
	Amps	3.1	4.7	7.3
	Speed - min ⁻¹	1745	1760	1750
	Insulation Class	H	H	H
	Service Factor	1.15	1.15	1.15
Frame size		145	160	160
Bearing Size	Power Side	6306ZZ	5307ZZ	5307ZZ
	Opposite Side	6204ZZ	6205ZZ	6205ZZ
No Load Test	Amps	1.66	2.41	3.02
	Watts	140.4	207.0	304.2
Resistance at 20°C (with Cable 50ft)	Ohms	6.6039	3.8217	2.8001
Cable Size	AWG No.	14	14	14
75% Load	Current - Amps	2.55	3.94	5.83
	Efficiency - %	74.34	71.59	75.71
	Power factor - %	74.59	73.48	78.92
	Speed - min ⁻¹	1760	1771	1767
100% Load	Current - Amps	3.10	4.70	7.30
	Efficiency - %	76.48	74.49	77.08
	Power factor - %	79.88	78.77	83.13
	Speed - min ⁻¹	1749	1761	1753
Locked Rotor Torque - %		412	180	137
Start Current - Amps		27.4	32.3	42.0
NEMA MG-1 Design Letter		B	B	B
Voltage Tolerance with Rated Frequency		+/-10%	+/-10%	+/-10%
Frequency Tolerance with Rated Voltage		+/-5%	+/-5%	+/-5%
Combined Tolerance of Voltage and Frequency (Frequency Tolerance: +/-5%)		+/-10%	+/-10%	+/-10%
Max. Cable Length - (m/ft)		536/1758	360/1181	220/722



Motor Data

ZXDL-4P 60Hz 460V 7.5-30hp 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 Side	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	10.80	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

