

OIL WELL PUMP MOTOR

CEM™

STANDARD FEATURES

Meets or Exceeds NEMA MG-1 Design D Standards

Mechanical V Seal on Both Ends. 254T & Above

Regreasable Open Bearings 254T & Above

Double Drilled Foot for Mounting Ease

Service Factor 1.15@60Hz, 1.0@50Hz

VPI Varnish Treatment on Windings

230/460/796 Volt Operations

High Torque/High Slip (5-8%)

Stainless Steel Nameplate



IP 55 Protection

Class F Insulation

FC 200 Cast Iron Frame

CSA+C+US Certification

Oversized Ground Terminal

Large Fins for Super Cooling

Thermal Embedded Protectors

40°C Ambient Continuous Duty

Corrosion Resistant Epoxy Paint

Oil Well Pump Motors



CONNEX ELECTRIC MOTORS

Division of Connex Ind. Corp.

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Performance Data

The performance tests were conducted at 460V, 60Hz.

Multiple operation conditions: 230/460V@60Hz 575V@60Hz 460/690V@60Hz 380/660V@50Hz 415V@50Hz

HP	Frame	Full Load RPM	Full Load Efficiency (%)	Full Load Power Factor (%)	Locked Rotor Amps	Full Load Amps @ 460V	Full Load Torque Ft-Lb	Locked Rotor Torque (%)	Break Down Torque (%)	ODE Bearing	DE Bearing	Net Weight in lb
3	213T	1130	79.0	74.0	32	5.0	13.95	330	340	6308	6308	121
5	215T	1130	83.5	75.0	46	7.5	23.25	285	315	6308	6308	139
7.5	254T	1125	84.5	78.0	63	10.8	34.90	280	295	6309	6309	250
10	256T	1130	85.0	77.0	81	14.4	46.50	300	330	6309	6309	274
15	284T	1125	85.5	83.0	116	20.0	69.80	280	310	6311	6311	350
20	286T	1130	86.0	83.0	145	26.5	93.00	285	310	6311	6311	370
25	324T	1120	86.0	85.0	182	32.2	117.30	300	310	6312	6312	466
30	326T	1130	86.5	85.0	217	38.5	139.50	300	330	6312	6312	519
40	365T	1135	87.5	88.0	290	49.0	185.20	275	290	6313	6313	609
50	404T	1140	87.5	88.0	362	61.0	230.50	275	300	NU315	6314	704
60	405T	1135	88.0	87.0	435	74.0	277.80	275	300	NU315	6314	926
75	444T	1140	90.0	88.0	542	89.0	345.70	280	310	NU318	6317	1041
100	445T	1140	90.5	88.0	725	117.0	460.00	275	300	NU318	6317	1316
125	447T	1140	92.5	83.0	907	147.0	575.00	275	300	NU319	6318	1550
150	449T	1140	93.2	83.5	1085	180.0	690.00	275	300	NU319	6318	1628

Dimensional Data

Frame	Mounting							Conduit Box		DE/ODE Bearings
	D	E	2F	A	B	BA	H	AB	AA	
213T	5.25	4.25	5.5	11	7.87	3.5	0.41	8.3	1	6308/6308
215T	5.25	4.25	7	11	9.37	3.5	0.41	8.3	1	6308/6308
254T	6.25	5	8.25	13	12.2	4.25	0.53	10.1	1.25	6309/6309
256T	6.25	5	10	13	12.2	4.25	0.53	10.1	1.25	6309/6309
284T	7	5.5	9.5	14	13.2	4.75	0.53	11.3	1.5	6311/6311
286T	7	5.5	11	14	13.2	4.75	0.53	11.3	1.5	6311/6311
324T	8	6.25	10.5	15.5	14.7	5.25	0.66	12.3	2	6312/6312
326T	8	6.25	12	15.5	14.7	5.25	0.66	12.3	2	6312/6312
365T	9	7	12.25	17.1	15.4	5.88	0.66	14.6	3	6313/6313
404T	10	8	12.25	19.3	17.9	6.62	0.81	15.6	3	6315/6314
405T	10	8	13.75	19.3	17.9	6.62	0.81	15.6	3	6315/6314
444T	11	9	14.5	21.7	22.9	7.5	0.81	16.6	3	NU6319/6318
445T	11	9	16.5	21.7	26.4	7	0.81	16.6	3	NU6319/6318
447T	11	9	20	21.7	26.4	7.5	0.81	16.6	3	NU6319/6318
449T	11	9	25	21.7	31.4	7.5	0.81	16.6	3	NU6319/6318

Frame	Motor Dimensions						Keyseat			
	C	N	O	P	T	N-W	U	R	S	ES
213T	18.9	3.12	10.5	10.5	1.9	3.38	1.375	1.201	0.312	2.41
215T	20.4	3.12	10.5	10.5	1.9	3.38	1.375	1.201	0.312	2.41
254T	25	3.75	13	13	2.2	4	1.625	1.416	0.375	2.91
256T	25	3.75	13	13	2.2	4	1.625	1.416	0.375	2.91
284T	28.1	4.38	14.5	14.5	2.2	4.62	1.875	1.591	0.5	3.28
286T	28.1	4.38	14.5	14.5	2.2	4.62	1.875	1.591	0.5	3.28
324T	31.3	5	15.9	15.9	2.6	5.25	2.125	1.845	0.5	3.91
326T	31.3	5	15.9	15.9	2.6	5.25	2.125	1.845	0.5	3.91
365T	33.5	5.62	18.1	18.1	2.6	5.88	2.375	2.021	0.625	4.28
404T	38.2	7	19.8	19.8	3	7.25	2.875	2.45	0.75	5.65
405T	38.2	4	19.8	19.8	3	7.25	2.875	2.45	0.75	5.65
444T	44.3	4.5	22.1	22.1	3	8.5	3.375	2.88	0.875	6.91
445T	47.8	4.5	22.1	22.1	3	8.5	3.375	2.88	0.875	6.91
447T	47.8	8.25	22.1	22.1	3	8.5	3.375	2.88	0.875	6.91
449T	52.8	8.25	22.1	22.1	3	8.5	3.375	2.88	0.875	6.91