

# INDUSQUIP MARKETING CC

NEW IMPROVED FIGURES

Aug-08



## ELECTRIC MOTORS & DRIVES

HIGH EFF 2 - CEMEP

PERFORMANCE DATA													3000 RPM - 50 Hz (2 POLE)			
Rated Output kW	Frame IEC	Rated Speed RPM	Full Load Current at 400V in A IFL	Locked Rotor Current I <sub>L</sub> /I <sub>N</sub> IST/IFL	Full Load Torque T <sub>n</sub> Nm	Locked Rotor Torque T <sub>ST</sub> /T <sub>FL</sub>	Break-down Torque T <sub>M</sub> /T <sub>FL</sub>	Efficiency η %			Power Factor Cos			Noise Level dB (A) Sound Pressure Level	Allowable Time of Locked Rotor Hot/Cold s/s	App. Wt. Kg
								% of Full Load								
								50	75	100	50	75	100			
0.18	63	2720	0.50	5.5	0.63		2.2	64.3	65.6	66.3	0.72	0.77	0.82	63	18	12
0.25	63	2720	0.66		0.88			67.1	68.5	69.2	0.73	0.78	0.83	63	8	13
0.37	71	2740	0.94	6.1	1.29		2.2	69.0	72.0	72.8	0.73	0.80	0.84	66	12	14
0.55	71	2740	1.33		1.92			71.8	73.4	74.0	0.74	0.80	0.84	66	15	15
0.75	80	2830	1.73	7.0	2.53		2.2	74.2	75.5	76.3	0.74	0.81	0.84	69	11	17
1.1	80	2830	1.97		3.71			75.1	78.0	78.6	0.75	0.80	0.85	69	9	18
1.5	90S	2840	3.2	7.5	5.04		2.2	77.2	78.8	79.6	0.75	0.81	0.85	74	8	22
2.2	90L	2840	4.5		7.40			82.4	82.7	81.5	0.76	0.81	0.86	74	10	25
3	100L	2870	5.9	7.5	9.98		2.3	81.6	83.1	83.5	0.78	0.84	0.88	78	8	32
4	112M	2890	7.6		13.3			82.4	84.1	85.0	0.79	0.84	0.90	79	11	45
5.5	132S	2910	10.3	7.5	18.7		2.3	83.8	85.6	86.4	0.79	0.84	0.89	82	10	59
7.5	132S	2900	13.9		24.7			86.7	87.7	87.6	0.82	0.86	0.92	82	8	64
9.2	132M	2930	17.3	7.5	29.9		2.3	84.9	88.7	89.3	0.76	0.85	0.89	82	10	105
11	160M	2930	19.8		35.9			86.3	88.7	89.0	0.80	0.85	0.90	88	14	109
15	160M	2930	26.8	7.5	48.9		2.0	87.6	89.9	90.6	0.80	0.85	0.91	88	12	121
18.5	160L	2930	32.5		60.3			88.2	90.3	91.0	0.82	0.86	0.91	88	12	136
22	180M	2940	38.4	7.5	71.5		2.0	89.0	90.1	91.5	0.82	0.87	0.91	87	11	180
30	200L	2950	51.9		97.1			89.1	91.0	91.8	0.82	0.87	0.91	94	15	246
37	200L	2950	63.6	7.5	120		2.0	89.8	91.6	93.4	0.82	0.88	0.91	94	15	256
45	225S/M	2970	77.0		145			90.1	92.0	92.9	0.82	0.88	0.91	86	17	328
55	250S/M	2970	92.7	7.5	176		2.0	90.5	92.6	93.5	0.83	0.88	0.91	87	17	433
75	250S/M	2970	124		241			91.1	93.0	93.9	0.84	0.88	0.93	88	14	488
90	280S/M	2970	148	7.5	289		2.0	91.6	93.5	94.4	0.84	0.88	0.93	88	34	632
110	280S/M	2980	183		354			91.8	93.7	94.7	0.82	0.87	0.92	88	32	970
132	315S/M	2980	218	7.1	425		2.2	92.2	94.1	95.1	0.82	0.87	0.92	92	31	1080
160	315S/M	2980	261		531			92.4	95.0	95.3	0.83	0.88	0.93	90	26	1210
185	315M/L	2980	306	7.1	593		2.2	94.0	95.0	95.2	0.83	0.88	0.93	90	24	1220
200	315M/L	2980	330		641			92.6	94.6	95.3	0.83	0.88	0.93	90	34	1240
220	355M/L	2980	363	7.1	705		2.2	93.4	94.5	95.2	0.83	0.87	0.93	92	34	1890
250	355M/L	2980	407		801			93.5	94.5	95.3	0.83	0.88	0.93	93	34	1970
280	355M/L	2980	456	7.1	897		1.6	93.4	94.9	95.3	0.83	0.88	0.93	92	32	1990
315	355M/L	2980	513		1010			92.6	94.8	95.3	0.83	0.88	0.93	92	19	2000

- 1) For current ratings at 380V, multiply by 1,05 and for 525V, multiply by 0,76.
- 2) Motors are tested to standard IEC 34-12 (starting) and IEC 34-1/34-2/24-2A (running).
- 3) The values shown are subject to change without prior notice.
- 4) For data and guaranteed performance values contact our sales office.



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ELECTRIC MOTORS & DRIVES

Aug-08



HIGH EFF 2 - CEMEP

PERFORMANCE DATA													1500 RPM - 50 Hz (4 POLE)			
Rated Output kW	Frame IEC	Rated Speed RPM	Full Load Current at 400V in A IFL	Locked Rotor Current I <sub>L</sub> /I <sub>n</sub> IST/IFL	Full Load Torque T <sub>n</sub> Nm	Locked Rotor Torque T <sub>ST</sub> /T <sub>FL</sub>	Break-down Torque T <sub>M</sub> /T <sub>FL</sub>	Efficiency η %			Power Factor Cos			Noise Level dB (A) Sound Pressure Level	Allowable Time of Locked Rotor Hot/Cold s/s	App. Wt. Kg
								% of Full Load								
								50	75	100	50	75	100			
0.12	63	1310	0.40		0.87			56.9	59.8	60.0	0.64	0.69	0.74	57	18	14
0.18	63	1310	0.56	4.4	1.31	2.1	2.2	59.7	60.9	60.9	0.65	0.70	0.75	57	17	14
0.25	71	1330	0.71		1.80			64.3	65.6	66.3	0.66	0.71	0.76	60	21	15
0.37	71	1330	1.02	5.2	2.66			66.2	67.6	68.2	0.67	0.72	0.77	60	12	16
0.55	80	1390	1.37		3.78	2.4		73.1	74.6	75.4	0.67	0.72	0.77	63	10	18
0.75	80	1390	1.84		5.15			73.1	74.6	75.4	0.68	0.73	0.78	69	14	19
1.1	90S	1400	2.60	6	7.50			75.1	76.6	77.4	0.69	0.74	0.79	66	7	23
1.5	90L	1400	3.37		10.23			77.2	78.8	79.6	0.71	0.76	0.81	66	14	26
2.2	100L	1430	4.69		14.69			79.5	81.9	82.0	0.73	0.78	0.83	63	9	34
3	100L	1430	6.21		20.03	2.3		81.0	82.6	83.5	0.74	0.79	0.84	69	7	37
4	112M	1440	8.14		26.53			82.4	84.1	85.0	0.74	0.79	0.84	70	11	45
5.5	132S	1440	10.9	7	36.47			83.8	85.6	87.3	0.74	0.81	0.86	68	12	65
7.5	132M	1440	14.5		49.74			85.0	86.8	88.7	0.75	0.81	0.86	69	8	78
9.2	132M	1460	17.5		59.36		2.3	83.6	87.6	88.0	0.75	0.82	0.86	75	7	89
11	160M	1460	20.9		71.95			86.3	88.1	89.0	0.75	0.80	0.85	75	15	118
15	160L	1460	27.9		98.12			87.2	89.5	89.9	0.76	0.81	0.86	72	15	138
18.5	180M	1470	33.8	7.5	119.4			87.8	89.6	90.5	0.77	0.85	0.87	74	12	177
22	180L	1471	40.0		142.9			88.8	90.6	91.0	0.77	0.85	0.89	78	12	203
30	200L	1470	54.1		194.9			89.8	91.2	91.8	0.79	0.86	0.88	79	15	243
37	225S/M	1480	64.9		238.75	2.2		89.7	91.7	92.6	0.79	0.86	0.89	78	15	305
45	225S/M	1480	77.8		290.37			90.1	91.9	92.9	0.80	0.86	0.90	82	18	328
55	250S/M	1482	94.6	7.2	354.5			91.8	93.2	93.6	0.80	0.86	0.90	82	20	452
75	250S/M	1480	128		483.95			93.2	94.4	94.6	0.85	0.88	0.90	81	12	488
90	280S/M	1490	153		576.9			93.3	94.5	94.8	0.85	0.88	0.90	83	18	672
110	280S/M	1490	186		705.1			91.9	93.7	94.7	0.82	0.88	0.91	84	24	930
132	315S/M	1490	223		846.1			92.8	94.2	95.0	0.87	0.90	0.92	90	35	1130
160	315S/M	1490	270		1025.5			93.9	95.2	95.5	0.86	0.90	0.92	88	24	1180
185	315M/L	1490	307		1185.7			92.0	94.3	95.5	0.85	0.88	0.91	89	18	1215
200	315M/L	1490	337	6.9	1281.9	2.1	2.2	93.7	94.8	95.3	0.84	0.90	0.91	88	34	1260
220	355M/L	1485	366		1414.8			92.6	94.7	95.3	0.84	0.90	0.91	89	35	1530
250	355M/L	1485	421		1607.7			93.5	94.8	95.3	0.85	0.89	0.90	92	35	1810
280	355M/L	1485	468		1807.0			93.5	94.8	95.8	0.85	0.89	0.90	92	35	1860
315	355M/L	1485	531		2025.8			93.9	95.2	95.5	0.80	0.88	0.90	93	35	1910

- 1) For current ratings at 380V, multiply by 1,05 and for 525V, multiply by 0,76.
- 2) Motors are tested to standard IEC 34-12 (starting) and IEC 34-1/34-2/24-2A (running).
- 3) The values shown are subject to change without prior notice.
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## ELECTRIC MOTORS & DRIVES

HIGH EFF 2 - CEMEP

PERFORMANCE DATA										1000 RPM - 50 Hz (6 POLE)						
Rated Output kW	Frame IEC	Rated Speed RPM	Full Load Current at 400V in A IFL	Locked Rotor Current I <sub>L</sub> /I <sub>N</sub> IST/IFL	Full Load Torque T <sub>n</sub> Nm	Locked Rotor Torque T <sub>ST</sub> /T <sub>FL</sub>	Break-down Torque T <sub>M</sub> /T <sub>FL</sub>	Efficiency η %			Power Factor Cos			Noise Level dB (A) Sound Pressure Level	Allowable Time of Locked Rotor Hot/Cold s/s	App. Wt. Kg
								% of Full Load								
								50	75	100	50	75	100			
0.25	80	850	0.84	4.0	2.81		2.0	58.7	59.9	60.5	0.61	0.66	0.71	59	15	15
0.37	80	890	1.16	4.7	3.97	1.9		61.5	62.8	63.4	0.63	0.68	0.73	61	8	17
0.55	80	890	1.61		5.90			64.3	65.6	66.3	0.64	0.69	0.74	61	12	19
0.75	90S	910	2.06		8.84			68.4	70.1	71.7	0.64	0.69	0.74	64	13	23
1.1	90L	910	2.87	5.5	12.07			71.2	72.7	73.4	0.65	0.70	0.75	64	14	25
1.5	100L	940	3.64		15.24	2.0		74.9	76.4	77.2	0.67	0.72	0.77	68	13	33
2.2	112M	940	5.09		22.35			77.6	79.2	80.1	0.68	0.73	0.78	72	15	45
3	132S	960	6.77		29.84			79.5	81.1	82.0	0.68	0.73	0.78	76	15	63
4	132M	960	8.93	6.5	39.79	2.1		81.6	83.1	83.8	0.68	0.73	0.78	76	15	73
5.5	132M	960	11.9		54.71		2.1	82.3	84.0	84.8	0.69	0.74	0.79	76	15	84
7.5	160M	970	15.8		73.84			84.1	85.8	86.7	0.69	0.75	0.80	80	20	119
11	160L	970	22.6		108.39	2.0		85.5	88.0	88.1	0.70	0.75	0.80	73	15	147
15	180L	970	29.3		147.68			86.9	88.7	89.6	0.73	0.80	0.85	72	15	195
18.5	200L	970	35.7		182.14			87.8	89.6	90.5	0.73	0.78	0.85	74	35	235
22	200L	970	41.6		216.6	2.1		87.8	89.6	90.5	0.74	0.79	0.85	76	27	256
30	225S/M	980	55.2		292.23	2.0		89.2	91.0	91.9	0.75	0.80	0.85	74	20	306
37	250S/M	980	66.3	7.0	360.56			89.6	91.5	92.4	0.77	0.82	0.87	78	22	416
45	250S/M	980	80.2		438.52	2.1		90.1	91.9	91.9	0.77	0.82	0.87	75	17	536
55	280S/M	980	97.5		535.97			90.6	92.4	93.4	0.77	0.82	0.87	77	33	614
75	280S/M	990	132		723.48			91.2	93.1	94.0	0.77	0.82	0.87	80	30	990
90	315S/M	990	158		968.18	2.0		91.5	93.4	94.3	0.77	0.82	0.87	81	28	1180
110	315S/M	990	193		1061.1		2.0	91.7	93.6	94.5	0.77	0.82	0.87	84	28	1240
132	315M/L	990	228		1273.3			91.8	93.7	94.7	0.78	0.83	0.88	82	17	1300
160	315M/L	990	277		1543.4		2.0	92.1	94.0	95.0	0.79	0.84	0.89	85	12	1800
185	355M/L	990	315	6.7	1784.8			92.2	94.2	95.1	0.79	0.84	0.89	86	35	1850
200	355M/L	990	341		1929.3	1.9		92.3	94.2	95.2	0.79	0.84	0.89	86	35	1945
220	355M/L	990	374		2122.2			93.0	94.5	95.2	0.79	0.84	0.89	87	35	2040
280	355M/L	980	425		2411.6			92.5	94.4	95.3	0.79	0.84	0.89	88	21	2236

- 1) For current ratings at 380V, multiply by 1,05 and for 525V, multiply by 0,76.
- 2) Motors are tested to standard IEC 34-12 (starting) and IEC 34-1/34-2/24-2A (running).
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## ELECTRIC MOTORS & DRIVES

HIGH EFF 2 - CEMEP

PERFORMANCE DATA													750 RPM - 50 Hz (8 POLE)			
Rated Output kW	Frame IEC	Rated Speed RPM	Full Load Current at 400V in A IFL	Locked Rotor Current II/In IST/IFL	Full Load Torque Tn Nm	Locked Rotor Torque TST/TFL	Break-down Torque TM/TFL	Efficiency n %			Power Factor Cos			Noise Level dB (A) Sound Pressure Level	Allowable Time of Locked Rotor Hot/Cold s/s	App. Wt. Kg
								% of Full Load								
								50	75	100	50	75	100			
0.37	90S	660	1.30	4.0	5.35	1.8	1.9	62.0	63.3	63.9	0.54	0.59	0.64	64	32	23
0.55	90L	660	1.91		7.96			62.9	64.2	64.9	0.54	0.59	0.64	64	26	25
0.75	100L	690	2.14		10.38			70.3	71.7	72.5	0.60	0.65	0.70	67	32	33
1.1	100L	690	2.98	5.0	15.22	1.8	1.9	72.1	73.6	74.4	0.62	0.67	0.72	67	23	38
1.5	112M	680	3.97		21.07			74.0	75.5	76.3	0.62	0.67	0.72	69	28	50
2.2	132S	710	5.47		29.59			76.7	78.3	79.1	0.63	0.68	0.73	72	22	63
3	132M	710	7.19	6.0	40.35	1.9	2.0	77.6	79.2	80.1	0.65	0.70	0.75	72	20	79
4	160M	720	9.36		53.06			79.5	82.0	83.0	0.65	0.70	0.75	76	34	118
5.5	160M	720	12.4		72.95			81.3	83.0	83.9	0.66	0.71	0.76	76	24	119
7.5	160L	720	16.3	6.6	99.48	1.9	2.0	83.6	85.4	86.2	0.67	0.72	0.77	76	20	145
11	180L	730	23.1		143.9			85.5	87.2	88.1	0.68	0.73	0.78	78	12	184
15	200L	730	31.3		196.23			85.9	88.0	88.6	0.68	0.73	0.78	81	32	236
18.5	225M	730	37.8	6.6	242.1	1.9	2.0	87.8	89.6	90.5	0.68	0.73	0.78	80	18	292
22	225M	740	43.2		283.92			88.2	90.1	91.0	0.71	0.76	0.81	80	15	302
30	250S/M	740	58.6		387.16			88.7	90.5	91.5	0.71	0.76	0.81	82	15	396
37	250S/M	740	71.1	6.4	477.6	1.8	1.9	89.2	91.0	91.9	0.72	0.78	0.82	83	15	520
45	280S/M	710	86.1		605.3			89.6	91.5	92.4	0.72	0.77	0.82	82	30	533
55	280S/M	740	103		709.8			90.5	92.4	93.3	0.73	0.78	0.83	88	24	1000
75	315S/M	740	140	6.4	967.9	1.8	1.9	90.7	92.6	93.5	0.73	0.78	0.83	88	18	1250
90	315M/L	740	165		1161.5			91.4	93.5	94.3	0.74	0.79	0.84	88	28	1310
110	315M/L	740	201		1419.6			91.6	94.0	94.5	0.74	0.79	0.84	88	14	1350
132	355M/L	740	232	6.4	1703.5	1.8	1.9	91.3	93.6	94.2	0.77	0.82	0.87	85	30	1750
160	355M/L	740	277		2064.9			91.8	93.7	94.6	0.78	0.83	0.88	88	34	1880
185	355M/L	740	320		2387.5			92.0	93.9	94.8	0.78	0.83	0.88	86	34	1960
200	355M/L	740	345		2581.1	1.8		92.1	94.0	94.9	0.78	0.83	0.88	87	34	2060

- 1) For current ratings at 380V, multiply by 1,05 and for 525V, multiply by 0,76.
- 2) Motors are tested to standard IEC 34-12 (starting) and IEC 34-1/34-2/24-2A (running).
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