

TEFC, S1 Duty
 415 ± 10% V, 50Hz ± 5%.
 Combined Variation of (absolute sum 10%)

Insulation Class F
 Temperature rise Class B (70°C)

2 Pole Ambient 50°C

Output kW	HP	Frame Size	Rated Speed (rpm)	I _n (A)	Efficiency %			Power Factor			I _s /I _n	Torque		T _n Nm	T _{hot} (Sec)	T _{cold} (Sec)	Weight Kg	GD ² Kgm ²
					FL	3/4FL	1/2FL	FL	3/4FL	1/2FL		T _s /T _n	T _{max} /T _n					
0.37	0.5	HX71A2	2790	1.0	63.0	59.0	46.0	0.80	0.73	0.60	4.2	2.0	2.4	1.3	5	12	10	0.001
0.55	0.75	HX71C2	2790	1.4	68.0	64.0	57.0	0.81	0.74	0.63	4.3	1.8	2.3	1.9	5	12	14	0.002
0.75	1.0	HX80A2	2780	1.8	73.0	72.0	68.0	0.82	0.76	0.66	4.8	2.0	2.3	2.6	7	16	10	0.002
1.1	1.5	HX80C2	2780	2.5	74.0	73.0	70.0	0.81	0.74	0.63	4.8	2.1	2.3	3.8	7	16	14	0.003
1.5	2.0	HX+90SLC2	2865	2.9	81.0	81.0	77.0	0.90	0.84	0.74	6.0	2.2	3.0	5.0	5	10	24	0.008
2.2	3.0	HX+90SLD2	2865	4.2	81.5	81.5	77.5	0.90	0.84	0.74	6.0	2.1	3.0	7.3	6	12	26	0.009
3.7	5.0	HX+100LB2	2830	7.2	80.0	79.5	77.5	0.87	0.84	0.74	6.0	2.2	2.7	12.5	6	12	55	0.044
5.5	7.5	HX+132SMB2	2870	10	84.0	84.0	83.0	0.88	0.86	0.83	6.0	2.1	3.0	18.3	7	14	60	0.052
7.5	10	HX+132SMC2	2870	13.5	86.0	86.0	85.0	0.90	0.88	0.85	6.0	2.4	3.0	25.0	7	14	70	0.072
9.3	12.5	HX+132SME2	2870	16	86.5	86.5	85.5	0.91	0.89	0.86	6.0	2.5	3.0	30.9	9	20	80	0.092
11	15	HX+160MLB2	2905	20	88.0	88.0	87.0	0.87	0.85	0.82	6.0	2.2	2.8	36.2	12	28	120	0.128
15	20	HX+160MLD2	2905	26	89.0	89.0	88.0	0.87	0.85	0.82	6.0	2.2	3.0	49.4	12	28	130	0.152
18.5	25	HX+160MLE2	2900	32	91.0	91.0	90.0	0.90	0.87	0.84	6.0	2.5	2.9	60.9	12	28	145	0.182

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Output kW	HP	Frame Size	Rated Speed (rpm)	I _n (A)	Efficiency %			Power Factor			I _s /I _n	Torque		T _n Nm	T _{hot} (Sec)	T _{cold} (Sec)	Weight Kg	GD ² Kgm ²
					FL	3/4FL	1/2FL	FL	3/4FL	1/2FL		T _s /T _n	T _{max} /T _n					
0.25	0.33	HX71A4	1385	0.8	63.0	61.0	55.0	0.80	0.64	0.51	3.5	1.9	2.2	1.7	7	16	13	0.002
0.37	0.50	HX71B4	1370	1.1	63.0	61.0	55.0	0.80	0.64	0.51	3.5	2.0	2.5	2.6	7	16	13	0.003
0.55	0.75	HX80B4	1400	1.5	65.0	64.0	58.0	0.80	0.67	0.51	3.5	1.8	2.3	3.8	6	14	13	0.008
0.75	1.0	HX80D4	1380	2.0	68.0	67.0	62.0	0.80	0.69	0.55	4.5	1.8	2.3	5.8	4	9	15	0.007
1.1	1.5	HX+90SLD4	1420	2.5	76.0	76.0	74.0	0.80	0.71	0.56	5.5	2.0	2.7	7.4	5	10	25	0.015
1.5	2.0	HX+90SLE4	1420	3.4	77.0	77.0	75.0	0.81	0.73	0.62	5.5	2.0	2.7	10.1	5	12	27	0.017
2.2	3.0	HX+100LB4	1405	4.8	78.0	78.0	76.0	0.81	0.73	0.62	5.5	2.2	2.7	15.0	5	12	38	0.026
3.7	5.0	HX+112MB4	1425	7.6	83.0	83.0	81.0	0.81	0.74	0.63	6.0	2.1	2.8	24.8	5	14	46	0.050
5.5	7.5	HX+132SMC4	1430	11.0	85.0	85.0	83.0	0.82	0.75	0.64	6.0	2.0	2.8	36.7	7	16	70	0.088
7.5	10	HX+132SME4	1430	14.5	85.5	85.5	83.5	0.83	0.76	0.64	6.0	2.0	2.8	50.1	8	16	80	0.112
9.3	12.5	HX+160MLB4	1455	18.8	88.0	88.0	86.0	0.81	0.74	0.63	6.0	2.2	2.8	61.0	8	18	125	0.028
11	15	HX+160MLD4	1455	21.0	89.0	89.0	87.0	0.82	0.76	0.66	6.0	2.1	2.8	72.2	12	28	145	0.252
15	20	HX+160MLE4	1450	28.0	89.0	89.0	87.0	0.82	0.76	0.66	6.0	2.1	2.8	98.8	14	30	160	0.302

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Output kW	HP	Frame Size	Rated Speed (rpm)	I _n (A)	Efficiency %			Power Factor			I _s /I _n	Torque		T _n Nm	T _{hot} (Sec)	T _{cold} (Sec)	Weight Kg	GD ² Kgm ²
					FL	3/4FL	1/2FL	FL	3/4FL	1/2FL		T _s /T _n	T _{max} /T _n					
0.25	0.33	HX80B6K	895	0.8	63.0	59.0	53.0	0.70	0.59	0.47	3.5	1.9	2.2	2.7	10	24	13	0.006
0.37	0.50	HX80B6	895	1.2	63.5	61.0	55.0	0.70	0.59	0.47	3.5	1.9	2.2	4.0	10	24	13	0.006
0.55	0.75	HX80D6	900	1.6	66.0	64.0	60.0	0.73	0.65	0.50	3.5	1.9	2.2	5.8	10	24	15	0.008
0.75	1.0	HX+90SLD6	910	2.0	73.0	73.0	70.0	0.70	0.60	0.52	3.5	1.8	2.1	7.8	10	24	25	0.015
1.1	1.5	HX+90SLE6	915	2.9	74.0	74.0	71.0	0.70	0.60	0.52	3.5	1.8	2.1	11.2	12	25	28	0.017
1.5	2.0	HX+100LB6	935	4.0	75.5	75.5	72.5	0.70	0.61	0.54	4.5	2.2	2.5	15.3	10	24	35	0.026
2.2	3.0	HX+112MB6	940	5.9	78.5	78.5	76.5	0.70	0.61	0.54	5.0	2.0	2.5	21.9	10	20	46	0.050
3.7	5.0	HX+132SMC6	960	8.3	83.0	83.0	81.0	0.70	0.66	0.54	5.5	2.2	2.6	36.8	8	19	70	0.088
5.5	7.5	HX+132SME6	960	12.5	83.5	83.5	81.5	0.72	0.68	0.62	5.5	2.2	2.6	54.4	10	20	80	0.120
7.5	10	HX+160MLC6	960	15.5	87.5	87.5	86.5	0.77	0.72	0.60	5.5	1.9	2.5	74.6	8	18	145	0.326
9.3	12.5	HX+160MLD6	965	19.0	88.0	88.0	86.0	0.77	0.72	0.60	6.0	2.0	2.5	92.0	8	18	155	0.372
11	15	HX+160MLE6	965	23.0	88.0	88.0	86.0	0.77	0.72	0.60	6.0	2.0	2.5	109.0	9	20	170	0.446

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Output kW	HP	Frame Size	Rated Speed (rpm)	I _n (A)	Efficiency %			Power Factor			I _s /I _n	Torque		T _n Nm	T _{hot} (Sec)	T _{cold} (Sec)	Weight Kg	GD ² Kgm ²
					FL	3/4FL	1/2FL	FL	3/4FL	1/2FL		T _s /T _n	T _{max} /T _n					
0.37	0.5	HX+90SLA8	680	1.4	58.0	55.0	48.0	0.65	0.55	0.40	2.8	1.6	1.9	5.20	10	24	22	0.012
0.55	0.75	HX+90SLD8	690	1.9	63.0	60.0	54.0	0.63	0.55	0.40	3.2	1.8	2.1	7.70	10	24	25	0.015
0.75	1.0	HX+100LA8	695	3.1	63.0	62.0	57.0	0.56	0.50	0.37	3.0	1.8	2.1	10.3	10	24	35	0.020
1.10	1.5	HX+100LB8	695	3.9	62.5	62.0	57.0	0.59	0.51	0.38	3.0	1.8	2.3	15.1	10	24	35	0.026
1.50	2.0	HX+112MA8	700	4.8	69.0	67.0	63.0	0.60	0.51	0.41	3.5	1.8	2.3	20.5	9	20	45	0.044
2.20	3.0	HX+132SMB8	710	6.3	77.0	76.0	71.0	0.65	0.55	0.42	4.1	1.9	2.4	29.6	8	19	60	0.060
3.70	5.0	HX+160MLB8	715	8.0	82.5	82.5	79.5	0.77	0.70	0.61	5.1	1.8	2.4	49.4	9	20	125	0.288
5.50	7.5	HX+160MLD8	715	12.0	85.0	84.0	82.0	0.79	0.72	0.59	5.1	1.8	2.5	73.5	13	29	155	0.372
7.50	10	HX+160MLE8	715	16.0	85.0	84.0	82.0	0.79	0.72	0.59	5.1	1.8	2.5	98.8	15	30	170	0.446

I_n = Nominal or rated current T_{max} = Maximum torque I_s = Starting current
 T_s = Starting torque T_n = Nominal or rated torque in Nm T_{cold} = Cold withstand time
 T_{hot} = Hot withstand time

* Frame 71 & 80 are designed for ambient 45°C and temperature rise of 75°C.
 Note : All performance figures are subject to IS tolerances.

TEFC, S1 Duty
 415 ± 10% V, 50Hz ± 5%.
 Combined Variation of (absolute sum 10%)

Insulation Class F
 Temperature rise Class B (70°C)

2 Pole Ambient 50°C

Output kW	HP	Frame Size	Rated Speed (rpm)	I _n (A)	Efficiency %			Power Factor			I _s /I _n	Torque		T _n Nm	T _{hot} (Sec)	T _{cold} (Sec)	Weight Kg	GD ² Kgm ²
					FL	3/4FL	1/2FL	FL	3/4FL	1/2FL		T _s /T _n	T _{max} /T _n					
22	30	HX+180MLB2	2925	37.5	92.1	92.1	91.1	0.89	0.87	0.81	6.0	2.3	3.0	72	20	46	170	0.25
30	40	HX+200MLB2	2940	51.0	92.6	92.6	91.0	0.88	0.86	0.81	6.0	2.3	3.0	97	20	46	240	0.72
37	50	HX+200MLC2	2940	62.0	93.1	93.1	92.1	0.89	0.87	0.81	6.0	2.4	2.7	120	20	46	260	0.78
45	60	HX+225SMC2	2955	75.0	93.5	93.5	92.5	0.89	0.87	0.81	6.0	2.6	3.0	145	20	46	330	1.28
55	75	HX+250MB2	2960	91.5	94.0	94.0	93.0	0.89	0.87	0.81	6.0	2.4	3.0	177	20	46	440	1.92
75	100	HX+280SMB2	2965	123.0	94.2	94.2	93.2	0.90	0.88	0.82	6.0	2.0	3.0	242	20	46	610	3.28
90	125	HX+280SMC2	2965	147.0	94.5	94.5	93.5	0.90	0.89	0.83	6.0	2.2	3.0	290	20	46	640	3.42

4 Pole Ambient 50°C

Output kW	HP	Frame Size	Rated Speed (rpm)	I _n (A)	Efficiency %			Power Factor			I _s /I _n	Torque		T _n Nm	T _{hot} (Sec)	T _{cold} (Sec)	Weight Kg	GD ² Kgm ²
					FL	3/4FL	1/2FL	FL	3/4FL	1/2FL		T _s /T _n	T _{max} /T _n					
18.5	25	HX+180MLB4	1455	34.5	90.6	90.6	89.6	0.82	0.76	0.66	6.0	2.4	2.7	121	15	34	175	0.48
22	30	HX+180MLC4	1460	40.5	91.5	91.5	90.5	0.83	0.78	0.70	6.0	2.6	2.7	144	15	34	185	0.54
30	40	HX+200MLC4	1470	54.5	92.6	92.6	91.6	0.83	0.78	0.70	6.0	2.6	2.7	195	15	34	245	1.20
37	50	HX+225SMB4	1470	67.0	92.8	92.8	91.8	0.83	0.78	0.70	6.0	2.2	2.7	240	20	46	310	1.40
45	60	HX+225SMC4	1470	81.0	93.3	93.3	92.3	0.86	0.78	0.73	6.0	2.2	2.7	292	20	46	340	1.52
55	75	HX+250MB4	1475	98.5	93.8	93.8	92.8	0.83	0.78	0.70	6.0	2.4	2.7	356	20	46	435	2.80
75	100	HX+280SMB4	1475	131.0	93.8	93.8	92.8	0.85	0.80	0.72	6.0	2.3	2.7	486	20	46	610	4.44
90	125	HX+280SMC4	1475	157.0	94.0	94.0	93.0	0.85	0.82	0.73	6.0	2.4	2.7	583	20	46	680	5.32

6 Pole Ambient 50°C

Output kW	HP	Frame Size	Rated Speed (rpm)	I _n (A)	Efficiency %			Power Factor			I _s /I _n	Torque		T _n Nm	T _{hot} (Sec)	T _{cold} (Sec)	Weight Kg	GD ² Kgm ²
					FL	3/4FL	1/2FL	FL	3/4FL	1/2FL		T _s /T _n	T _{max} /T _n					
15	20	HX+180MLC6	965	30.0	89.0	89.0	87.0	0.79	0.72	0.59	6.0	2.4	3.0	148	15	34	185	0.68
18.5	25	HX+200MLB6	985	36.0	90.5	90.5	88.5	0.79	0.72	0.59	6.0	2.3	3.0	179	15	34	230	1.60
22	30	HX+200MLC6	985	42.0	91.7	91.7	89.7	0.79	0.72	0.59	6.0	2.4	3.0	213	15	34	300	1.80
30	40	HX+225SMC6	985	55.5	92.1	92.1	90.1	0.82	0.76	0.66	6.0	2.4	2.8	291	20	46	320	2.98
37	50	HX+250MB6	985	66.0	92.8	92.8	90.8	0.84	0.80	0.71	6.0	2.4	2.8	359	20	46	420	4.80
45	60	HX+280SMB6	985	79.5	93.6	93.6	91.6	0.84	0.80	0.71	6.0	2.3	2.6	436	20	46	590	7.20
55	75	HX+280SMC6	985	97.0	93.8	93.8	91.8	0.84	0.80	0.71	6.0	2.1	2.7	533	20	46	600	8.10

8 Pole Ambient 50°C

Output kW	HP	Frame Size	Rated Speed (rpm)	I _n (A)	Efficiency %			Power Factor			I _s /I _n	Torque		T _n Nm	T _{hot} (Sec)	T _{cold} (Sec)	Weight Kg	GD ² Kgm ²
					FL	3/4FL	1/2FL	FL	3/4FL	1/2FL		T _s /T _n	T _{max} /T _n					
9.3	12.5	HX+180MLA8	725	20.0	87.0	87.0	85.0	0.75	0.67	0.53	6.0	1.8	2.6	123	13	29	160	0.64
11	15	HX+180MLB8	725	23.5	87.0	87.0	85.0	0.75	0.67	0.53	6.0	2.0	2.5	145	13	29	170	0.72
15	20	HX+200MLC8	735	31.5	88.0	88.0	86.0	0.75	0.67	0.53	6.0	2.2	2.5	195	15	34	240	1.98
18.5	25	HX+225SMB8	735	38.5	90.0	90.0	89.0	0.74	0.66	0.52	6.0	2.2	2.3	240	18	40	320	3.32
22	30	HX+225SMC8	735	45.5	91.0	91.0	89.0	0.74	0.66	0.52	6.0	2.1	2.3	286	18	40	340	3.50
30	40	HX+250MB8	740	60.0	91.5	91.5	89.5	0.76	0.68	0.54	6.0	2.1	2.3	387	18	40	520	4.54
37	50	HX+280SMB8	740	73.5	92.0	92.0	90.0	0.76	0.73	0.61	6.0	2.1	2.3	478	18	40	590	7.64
45	60	HX+280SMC8	740	89.0	92.5	92.5	90.5	0.76	0.73	0.61	6.0	2.1	2.3	581	18	40	600	7.75

I_n = Nominal or rated current T_{max} = Maximum torque I_s = Starting current
 T_s = Starting torque T_n = Nominal or rated torque in Nm T_{cold} = Cold withstand time
 T_{hot} = Hot withstand time

*These motors have temperature rise of class F

Note : All performance figures are subject to IS tolerances.