PERFORMANCE CHART IE2 2 Pole,4 Pole,6 Pole

Issue Date - 13/04/2018
Revision - 01

Frame size	Output kW	Speed r/min	Efficiency Full load 100%	Efficiency 3/4 load 75%	Efficiency 1/2 load 50%	Power factor cos ϕ	Current I_n, A	Current I_s/I_n	Torque T_n,Nm	Torque Ts/T_n	Torque Tb/T_n	Moment of inertia J=1/4GD² kgm²	Weight kg
3000 r/min = 2 poles				415V,50Hz									
M2BAX 71MA 2	0.37	2760	72.2	72.9	70.3	0.79	0.90	5.0	1.3	2.0	2.4	0.00033	9
M2BAX 71MB 2	0.55	2785	74.8	75.5	73.0	0.79	1.30	5.0	1.9	2.2	2.7	0.00041	10
M2BAX 80MA 2	0.75	2820	77.4	78.0	75.7	0.79	1.70	6.0	2.5	2.3	2.8	0.00067	13
M2BAX 80MB 2	1.1	2840	79.6	80.0	77.9	0.77	2.5	6.0	3.7	2.5	3.0	0.00088	14
M2BAX 90SA 2	1.5	2875	81.3	82.0	80.3	0.83	3.1	6.0	5.0	2.3	3.0	0.00208	20
M2BAX 90LA 2	2.2	2878	83.2	84.0	82.6	0.84	4.4	7.0	7.3	2.5	3.1	0.00274	23
M2BAX 100LC 2	3.7	2890	85.5	85.8	84.3	0.87	6.9	7.0	12.2	3.0	3.8	0.00561	34
M2BAX 132SA 2	5.5	2915	87.0	87.8	86.7	0.84	10.5	7.0	18.0	2.0	3.4	0.01170	54
M2BAX 132SB 2	7.5	2910	88.1	89.0	88.7	0.86	13.8	7.0	24.6	2.1	3.5	0.01320	58
M2BAX160MLJ2	9.3	2925	88.8	89.1	87.6	0.87	16.7	7.0	30.3	2.1	3.0	0.038	102
M2BAX160MLA2	11	2925	89.4	89.7	88.2	0.88	19.6	7.0	35.9	2.4	3.0	0.0415	105
M2BAX160MLB2	15	2928	90.3	90.7	90.0	0.87	26.5	7.0	48.9	2.1	3.0	0.0544	120
M2BAX160MLC2	18.5	2928	90.9	91.2	90.4	0.87	32.4	7.0	60.3	2.3	3.0	0.0581	131
M2BAX180MLA2	22	2932	91.3	91.7	91.0	0.88	38.0	7.0	71.6	3.0	3.5	0.0679	152
M2BAX200MLA2	30	2935	92.0	92.4	91.5	0.88	51.5	7.0	97.6	2.2	3.2	0.1077	198
M2BAX200MLB2	37	2950	92.5	92.8	91.7	0.87	64.0	7.0	119.7	3.0	3.8	0.1332	232
M2BAX225SMA2	45	2960	92.9	92.6	92.0	0.88	77.0	7.0	145.1	2.2	3.0	0.2443	295
M2BAX250SMA2	55	2965	93.2	93.8	92.8	0.89	92.0	7.0	177.1	2.5	3.0	0.316	344
1500 r/min = 4 poles				415V,50Hz									
M2BAX 71MB 4	0.37	1392	70.1	70.4	66.7	0.67	1.10	5.0	2.5	1.9	2.2	0.00076	10
M2BAX 80MA 4	0.55	1405	75.1	74.3	70.0	0.68	1.50	5.0	3.7	2.2	2.8	0.00156	13
M2BAX 80MB 4	0.75	1425	79.6	78.5	74.3	0.67	1.97	6.0	5.0	3.0	3.5	0.00247	17
M2BAX 90SA 4	1.1	1430	81.4	80.6	76.8	0.74	2.55	6.0	7.3	3.0	3.5	0.00372	21
M2BAX 90LA 4	1.5	1430	82.8	82.2	79.4	0.73	3.47	6.0	10.0	3.0	3.5	0.00462	23
M2BAX 100LA 4	2.2	1435	84.3	84.2	82.1	0.76	4.8	7.0	14.6	2.6	3.3	0.00759	31
M2BAX 112MA 4	3.7	1435	86.3	86.9	85.9	0.80	7.5	7.0	24.6	2.8	3.3	0.01200	41
M2BAX 132SA 4	5.5	1450	87.7	88.4	87.6	0.79	11.1	6.0	36.2	1.7	2.8	0.02570	57
M2BAX 132MA 4	7.5	1455	88.7	89.2	88.3	0.77	15.3	6.0	49.2	1.7	3.0	0.03200	68
M2BAX160MLJ4	9.3	1455	89.3	89.8	88.0	0.81	17.9	7.0	61.0	2.0	2.9	0.0738	107
M2BAX160MLA4	11	1455	89.8	90.4	89.4	0.81	21.0	7.0	72.2	2.1	2.9	0.084	115
M2BAX160MLB4	15	1463	90.6	91.2	90.2	0.84	27.6	7.0	97.9	2.5	3.0	0.1025	134
M2BAX180MLA4	18.5	1457	91.2	91.8	90.9	0.81	35.0	7.0	121.2	2.7	3.5	0.1217	155
M2BAX180MLB4	22	1460	91.6	92.1	91.2	0.80	42.0	7.0	143.8	2.4	3.2	0.1396	171
M2BAX200MLA4	30	1474	92.3	92.5	91.8	0.81	55.5	7.0	194.3	2.5	3.5	0.2572	229
M2BAX225SMA4	37	1475	92.7	93.1	92.2	0.84	66.5	6.5	239.4	2.1	2.7	0.3605	267
M2BAX225SMB4	45	1478	93.1	93.5	92.6	0.83	81.5	7.0	290.6	2.2	2.9	0.4314	304
M2BAX250SMA4	55	1478	93.5	93.7	92.9	0.85	96.8	7.0	355.2	2.7	3.0	0.5331	342
1000 r/min = 6 poles				415V,50Hz									
M2BAX 80MA 6	0.37	910	69.0	68.1	63.1	0.62	1.20	4.0	3.9	2.0	2.4	0.00173	13
M2BAX 80MB 6	0.55	910	72.9	72.8	69.2	0.66	1.60	4.0	5.8	2.1	2.5	0.00274	15
M2BAX 90SA 6	0.75	945	75.9	74.3	69.2	0.62	2.2	4.5	7.6	2.4	3.2	0.00438	21
M2BAX 90LA 6	1.1	935	78.1	77.3	73.3	0.63	3.1	4.5	11.2	2.3	2.9	0.00507	24
M2BAX 100LA 6	1.5	945	79.8	79.7	77.0	0.67	3.9	4.5	15.2	1.8	2.3	0.00795	31
M2BAX 112MA 6	2.2	950	81.8	81.7	79.0	0.68	5.5	5.0	22.1	1.8	2.6	0.01160	40
M2BAX 132SB 6	3.7	960	84.3	84.7	83.4	0.71	8.6	5.0	36.8	1.5	2.3	0.02830	60
M2BAX 132MB 6	5.5	965	86.0	86.0	84.2	0.70	12.7	5.0	54.4	1.5	2.8	0.03970	77
M2BAX160MLA6	7.5	957	87.2	88.0	86.8	0.77	15.6	6.5	74.8	1.7	2.6	0.089	122
M2BAX160MLJ6	9.3	965	88.0	88.6	87.8	0.77	19.1	6.5	92.0	2.0	2.8	0.119	141
M2BAX160MLB6	11	965	88.7	89.2	88.5	0.75	23.0	7.0	108.8	2.1	2.8	0.1293	147
M2BAX180MLA6	15	970	89.7	90.1	89.4	0.76	30.5	7.0	147.6	2.0	3.0	0.1522	173
M2BAX200MLA6	18.5	965	90.4	90.8	90.0	0.77	37.0	6.0	183.0	1.5	2.5	0.198	190
M2BAX200MLB6	22	970	90.9	91.2	90.6	0.77	43.7	6.0	216.5	1.5	2.5	0.2384	212
M2BAX225SMA6	30	981	91.7	92.0	91.2	0.82	55.8	6.5	291.9	2.1	2.8	0.5687	284
M2BAX250SMA6	37	981	92.2	92.4	91.9	0.81	68.9	6.0	360.0	2.0	2.6	0.8042	337

Ambient - 50 Deg , Insultion Class F, Temp. rise Class B , TEFC , IP55 , S1 Duty.
Applicable Standard - IS 12615-2011
All Data are subject to IS tolerance

I_s/I_n Starting Current
Ts/T_n Locked rotor torque
Tb/T_n Breakdown torque