

IE2/IE3 - Reg. (EU) 2019/1781 - 50Hz

Motor type	P _n (kW)	RPM 50Hz	I _n (A) 400 V 50Hz	cos φ	T _n (Nm)	T _s / T _n	I _s / I _n	IE	Efficiency 50Hz			Moment of inertia Jx10 ⁻⁴ kgm ²	Max AC brake torque (Nm)	Weight (kg)
									100%	75%	50%			
2 pole - 3000 RPM														
BAHX 80A2	0.75	2849	1.74	0.77	2.52	3.6	5.7	IE3	80.7	80.2	76.6	11.6	18	15
BAHX 80 B2	1.1	2865	2.50	0.77	3.66	3.3	5.4	IE3	82.7	83.0	80.9	13.0	18	15.5
BAHX 90 SA2	1.5	2890	3.15	0.81	4.95	3.8	8.2	IE3	84.2	85.1	82.8	21.8	38	22
BAHX 90 LA2	2.2	2887	4.95	0.75	7.27	4.4	8.4	IE3	85.9	85.7	84.0	25.1	38	25
BAHX 100 LB2	3.0	2905	6.60	0.76	9.86	4.4	8.8	IE3	87.1	86.3	84.2	45.8	50	36
BAHX 112 MC2	4.0	2935	7.80	0.84	13.00	4.6	10.5	IE3	88.1	88.5	87.0	85.0	80	48
BAHX 132SA2	5.5	2935	10.1	0.88	17.89	4.3	9.5	IE3	89.2	89.6	87.4	231	150	71
BAHX 132 SB2	7.5	2930	13.4	0.89	24.44	4.0	9.0	IE3	90.1	91.0	90.0	270	150	81
BAHX 160 MA2	11	2956	20.5	0.85	35.53	4.5	10.2	IE3	91.2	91.9	90.0	575	190	165
BAHX 160 MB2	15	2956	27.5	0.86	48.45	4.6	10.3	IE3	91.9	92.0	90.7	575	190	165
BAHX 160 LA2	18.5	2956	33.8	0.86	59.76	4.6	10.3	IE3	92.4	92.6	91.6	675	190	180
BAHX 180 LA2	22	2958	36.8	0.93	71.10	4.2	10.8	IE3	92.7	92.0	91.0	1100	300	250
BAHX 200 LA2	30	2955	51.65	0.9	97.00	4.7	9.8	IE3	93.3	93.5	92.3	1650	300	300
BAHX 200 LB2	37	2955	62.7	0.91	119.60	4.7	9.8	IE3	93.7	94.0	92.1	1650	300	300
4 pole - 1500 RPM														
BAHX 80 A4	0.55	1410	1.41	0.72	3.70	2.35	4.3	IE2	77.1	76.4	73.5	17.2	18	15
BAHX 80 S4	0.72	1400	1.9	0.7	4.98	2.9	5.3	IE2	79.6	79.5	78	17.2	18	15
BAHX 80 B4	0.75	1415	1.97	0.67	5.06	3.1	5.6	IE3	82.5	82.8	81.2	19.4	18	17
BAHX 90 SA4	1.1	1428	2.6	0.73	7.37	3.4	5.7	IE3	84.1	84.3	82.6	30.5	38	21
BAHX 90 LA4	1.5	1430	3.5	0.74	10.01	3.5	6.2	IE3	85.3	85.2	83.6	34.6	38	24
BAHX 100 S4 (*) (**)	1.85	1432	4	0.78	12.33	2.8	6.9	IE3	86.1	86.5	85.4	51.1	50	32
BAHX 100 LA4 (*) (**)	2.2	1440	4.8	0.76	14.5	2.9	7	IE3	86.7	87	85.4	60.1	50	36
BAHX 112 MB4	3	1455	6.4	0.77	19.68	4	8.6	IE3	87.7	88.7	87.2	126	80	45
BAHX 112 MC4	4	1445	8.4	0.77	26.40	3.7	7.1	IE3	88.6	88.8	87.6	145	80	50
BAHX 132 SB4	5.5	1457	11	0.8	36.04	3.5	7.6	IE3	89.6	91.1	89.3	352	150	86
BAHX 132 MA4	7.5	1457	14.9	0.82	49.15	3.3	7.9	IE3	90.4	90.7	90.2	398	150	95
BAHX 160 MB4	11	1460	22.3	0.78	71.50	3.8	9.1	IE3	91.4	91.6	91.0	737	190	160
BAHX 160 LA4	15	1470	30.2	0.78	97.44	3.5	9.1	IE3	92.1	92.3	91.8	900	190	175
BAHX 180 LA4	18.5	1475	37.1	0.78	119.77	3.5	9.1	IE3	92.6	92.6	91.65	1900	300	250
BAHX 180 LB4	22	1472	41.7	0.82	142.40	4.3	8.6	IE3	93.0	93.0	92.0	1900	300	250
BAHX 200 LB4	30	1475	53.2	0.87	194.22	2.9	8.4	IE3	93.6	93.4	93.4	3000	300	300
BAHX 225 S4	37	1480	66.2	0.86	238.73	2.7	8.5	IE3	93.9	94.4	91.9	4900	600	450
BAHX 225 M4	45	1480	79.3	0.87	290.35	2.8	8.8	IE3	94.2	94.7	92.2	5390	600	465
BAHX 250 M4	55	1480	96.6	0.87	354.88	3.2	9.8	IE3	94.6	95.1	92.6	8000	700	665
BAHX 280 S4	75	1488	136.4	0.83	481.32	3.6	10.2	IE3	95.0	95.5	95.0	11500	1000	770
BAHX 280 M4	90	1488	160.7	0.84	577.59	2.6	9.6	IE3	95.2	95.5	93.2	13100	1000	810
BAHX 315 S4	110	1489	193.5	0.86	705.47	2.6	9.2	IE3	95.4	95.9	93.4	27000	1000	1200
BAHX 315 M4	132	1489	231.7	0.86	846.57	2.7	9.2	IE3	95.6	96.1	93.6	31000	1000	1400

1. I valori indicati si riferiscono al funzionamento del motore con alimentazione 3-400V 50 Hz, temperatura esterna max 40 °C, altitudine fino a 1000 m s.l.m., servizio continuo (S1). - Motor characteristic values reported in the tables refer to continuous duty (S1), voltage 3-400V 50 Hz, ambient temperature max. 40 °C, altitude up to 1000 m above sea level operating condition

2. Il motore contrassegnato con * può essere fornito con albero e flangia ridotta con le dimensioni relative all'altezza d'asse 90. - The motor marked with * can be supplied with reduced shaft and flange with the dimensions related to the frame size 90.

3. I motori riportano in targa i dati relativi al funzionamento sia a 50 Hz che a 60 Hz con il medesimo valore di potenza ad esclusione dei motori

contrassegnati con **. - The motors nameplates have the data relating to operation at both 50 Hz and 60 Hz with the same power value except for the motors marked with **.

4. Il gruppo freno dei motori della serie BAX è lo stesso del corrispettivo motore della serie BA con la medesima altezza d'asse. I valori relativi alla coppia frenante massima indicati in tabella si riferiscono al freno AC, il freno D.C. sulla serie BA-BAX viene fornito solo su richiesta - BAX motor series have the same brake components as the BA with the same frame size, therefore the braking performance are the same. The maximum brake torque values indicated on the chart refer to AC brake, DC brake on BA-BAX series is available on request only.

5. La massima coppia frenante per un motore BAHX 132 e di 120 Nm.

- The maximum brake torque for BAHX 132 motors series is 120 Nm.

6. La MGM motori elettrici SpA si adopera per mantenere i dati forniti il più possibile aggiornati e corretti. Dal momento che i prodotti sono oggetto di continue modifiche e miglioramenti i dati indicati non possono tuttavia essere considerati impegnativi. I dati indicati inoltre si devono intendere come informazioni di carattere generale sul prodotto. Per specifiche applicazioni Vi raccomandiamo di contattare lo staff della MGM. - MGM keeps the data provided as up-to-date and correct as possible. Since the products are subject to changes and improvements, the data indicated cannot be considered binding. The data indicated must also be understood as being general in nature. For specific applications, please contact the MGM staff.

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Motor type	P _n (kW)	RPM 50Hz	I _n (A) 400 V 50Hz	cos φ	T _n (Nm)	T _s / T _n	I _s / I _n	IE	Efficiency 50Hz			Moment of inertia Jx10 ⁻⁴ kgm ²	Max AC brake torque (Nm)	Weight (Kg)	
									100%	75%	50%				
6 pole - 1000 RPM															
BAHX 80 A6	0.37	940	1.31	0.57	3.80	2.7	3.5	IE2	67.6	67.5	60.8	23.4	18	14.5	
BAHX 80 B6	0.55	920	1.72	0.63	5.70	2.8	3.5	IE2	73.1	72.8	69.2	27.2	18	15.5	
BAHX 90 SA6 **	0.75	935	2.10	0.66	7.66	2.5	5.5	IE3	78.9	79.3	77.1	46.0	38	21	
BAHX 90 LA6 **	1.1	935	3.30	0.61	11.23	3.1	4.6	IE3	81.0	81.4	79.2	53.0	38	24	
BAHX 100 LA6 **	1.5	955	4.00	0.66	15.20	3	5.3	IE3	82.5	82.1	79.1	100	50	35	
BAHX 112 MC6 **	2.2	960	5.00	0.75	21.88	2.4	6.4	IE3	84.3	84.4	82.5	200	80	50	
BAHX 132 SB6 **	3	965	6.80	0.75	29.68	3.1	8.1	IE3	85.6	85.8	83.8	346	150	78	
BAHX 132 MA6 **	4	965	9.20	0.72	39.58	3.1	6.7	IE3	86.8	88.2	87.1	401	150	83	
BAHX 132 MB6 **	5.5	965	12.50	0.72	54.42	3	6.6	IE3	88.0	88.2	86.6	508	150	94	
BAHX 160 MB6	7.5	965	15.80	0.76	74.21	3	7.2	IE3	89.1	89.3	88.2	1100	190	160	
BAHX 160 LB6	11	965	22.90	0.77	108.85	2.7	9.1	IE3	90.3	90.5	88.5	1350	190	185	
BAHX 180 LB6	15	978	31.30	0.76	147.70	3.1	9.1	IE3	91.2	91.2	90.0	2400	300	270	
BAHX 200 LA6	18.5	980	37.40	0.80	180.27	3.7	8.6	IE3	91.7	91.8	89.9	3500	300	300	
BAHX 200 LB6	22	975	43.10	0.80	215.47	3.1	7.3	IE3	92.2	92.3	90.4	3500	300	300	
BAHX 225 M6	30	985	57.90	0.80	291.40	3.7	7.7	IE3	92.9	93.2	92.9	7800	600	445	
BAHX 250 M6	37	980	68.20	0.84	360.50	3.2	7.9	IE3	93.3	93.4	91.5	10090	700	675	
BAHX 280 S6	45	987	88.80	0.78	436.30	2.8	6	IE3	93.7	93.8	91.9	17000	1000	750	
BAHX 280 M6	55	987	108.1	0.78	533.20	2.8	6.6	IE3	94.1	94.2	92.3	20000	1000	790	
BAHX 315 S6	75	988	141.3	0.81	724.91	2.6	7	IE3	94.6	94.7	92.8	34000	1000	1200	
BAHX 315 M6	90	988	169.0	0.81	869.90	2.6	7	IE3	94.9	95.0	93.1	52000	1000	1400	
8 pole - 750 RPM															
BAHX 80 A8	0.18	690	0.86	0.6	2.49	2.2	2.42	IE2	45.9	46.3	44.1	23.2	18	14.5	
BAHX 80 B8	0.25	675	1.1	0.61	3.53	2.2	2.42	IE2	50.6	51	48.8	27.2	18	15.5	
BAHX 90 SA8	0.37	690	1.52	0.59	5.12	2.31	3.19	IE2	56.1	56.5	54.3	35.9	38	20	
BAHX 90 LA8	0.55	690	2.3	0.56	7.61	2.31	3.08	IE2	61.7	62.1	59.9	46.1	38	22.5	
BAHX 100 LA8	0.75	700	2.6	0.56	10.23	2.31	3.3	IE3	75	75.2	73.2	87.4	50	33	
BAHX 100 LB8	1.1	700	3.8	0.54	15.00	2.4	4.4	IE3	77.7	77.9	75.9	99.2	50	35	
BAHX 112 MB8	1.5	720	4.8	0.57	19.89	2.2	4.95	IE3	79.7	79.9	77.9	168	80	45	
BAHX 132 SB8	2.2	710	5.55	0.7	29.59	2.31	5.17	IE3	81.9	82.1	80.1	325	150	73	
BAHX 132 MB8	3	710	7.4	0.7	40.35	2.31	5.17	IE3	83.5	83.7	81.7	413	150	80	
BAHX 160 MA8	4	725	9.6	0.71	52.68	2.53	6.7	IE3	84.8	84.9	83	1030	190	156	
BAHX 160 MB8	5.5	725	13.4	0.69	72.44	2.53	6.71	IE3	86.2	86.3	84.4	1030	190	156	
BAHX 160 LA8	7.5	725	18.3	0.68	98.78	2.53	6.71	IE3	87.3	87.4	85.5	1360	190	174	
BAHX 180 LB8	11	730	26.1	0.69	143.89	2.4	5.7	IE3	88.6	88.7	86.8	2460	300	243	
BAHX 200 LA8	15	735	34.7	0.7	194.88	2.09	6.5	IE3	89.6	89.7	87.8	4700	300	300	
BAHX 225 S8	18.5	740	44	0.67	238.73	2.4	7.5	IE3	90.1	90.1	88.3	7470	600	480	
BAHX 225 M8	22	735	49.4	0.7	285.83	2.1	7.04	IE3	90.6	90.6	89	7470	600	480	
BAHX 250 M8	30	740	64.17	0.74	387.14	2.1	6.8	IE3	91.3	91.3	89.5	10500	700	675	
BAHX 280 S8	37	745	75.64	0.77	474.27	2.2	7	IE3	91.8	91.8	90	20500	1000	750	
BAHX 280 M8	45	745	90.42	0.78	576.82	2.2	7.2	IE3	92.2	92.2	90.4	23500	1000	790	

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