

# Technical data

## IE2 cast iron motors, 1500 r/min

IP 55 - IC 411 - Insulation class F, temperature rise class B  
IE2 efficiency class according to IEC 60034-30-1; 2014

Output kW	Motor type	Product code	Speed r/min	Efficiency IEC 60034-30-1; 2014			Power factor Cos φ	Current Torque					Moment of inertia J = 1/4 GD <sup>2</sup> kgm <sup>2</sup>	Weight kg	Sound pressure Level L <sub>PA</sub> dB
				Full load 100%	3/4 load 75%	1/2 load 50%		I <sub>N</sub> A	I <sub>s</sub> /I <sub>N</sub>	T <sub>N</sub> Nm	T <sub>i</sub> /T <sub>N</sub>	T <sub>b</sub> /T <sub>N</sub>			
<b>1500 r/min = 4 poles</b>				<b>400 V 50 Hz</b>			<b>CENELEC-design</b>								
0.25	M3BP 71 MA 4	3GBP072321-••B	1365	68.3	70.8	69.7	0.81	0.65	3.5	1.74	1.9	2.0	0.000740	10	45
0.37	M3BP 71 MB 4	3GBP072322-••B	1380	72.4	74.5	74.6	0.83	0.88	4.0	2.5	1.6	2.1	0.000880	11	45
0.55	M3BP 80 MA 4	3GBP082321-••B	1415	74.5	73.8	70.0	0.73	1.45	5.0	3.7	2.0	2.8	0.00144	15	45
0.75	M3BP 80 MD 4	3GBP082324-••B	1430	81.0	80.7	77.3	0.73	1.83	5.3	5.0	2.7	3.2	0.00205	17	50
1.1	M3BP 90 SLB 4	3GBP092322-••B	1435	83.6	84.5	83.2	0.80	2.3	6.1	7.3	2.7	3.4	0.00440	25	56
1.5	M3BP 90 SLD 4	3GBP092325-••B	1430	84.3	85.6	84.7	0.83	3.0	6.3	10.0	2.7	3.4	0.00530	27	56
2.2	M3BP 100 LC 4	3GBP102323-••B	1450	85.9	85.1	83.4	0.78	4.7	8.8	14.4	3.7	4.1	0.00948	36	56
3	M3BP 100 LD 4	3GBP102324-••B	1450	86.8	87.0	85.4	0.79	6.3	7.7	19.7	2.9	3.4	0.0110	38	58
4	M3BP 112 MB 4	3GBP112322-••B	1440	86.8	87.7	87.3	0.81	8.2	7.0	26.5	2.5	2.9	0.0125	44	59
5.5	M3BP 132 SMB 4	3GBP132322-••B	1460	89.0	89.8	88.9	0.80	11.1	5.9	35.9	1.7	2.4	0.0328	70	67
7.5	M3BP 132 SMC 4	3GBP132323-••B	1450	89.3	90.1	90.0	0.81	14.9	5.6	49.3	1.6	2.4	0.0366	73	64
11	M3BP 160 MLA 4	3GBP162031-••G	1466	90.4	91.6	91.3	0.84	20.9	6.8	71.6	2.2	2.8	0.0810	135	62
15	M3BP 160 MLB 4	3GBP162032-••G	1470	91.4	92.3	92.2	0.83	28.5	7.1	97.4	2.6	3.0	0.0990	165	62
18.5	M3BP 180 MLA 4	3GBP182031-••G	1477	91.9	92.8	92.6	0.84	34.5	7.2	119	2.6	2.9	0.166	205	62
22	M3BP 180 MLB 4	3GBP182032-••G	1475	92.3	93.3	93.2	0.84	40.9	7.3	142	2.6	3.0	0.195	222	62
30	M3BP 200 MLA 4	3GBP202031-••G	1480	93.2	94.0	93.7	0.84	55.3	7.4	193	2.8	3.0	0.309	291	63
37	M3BP 225 SMA 4	3GBP222031-••G	1479	93.4	93.9	93.4	0.84	68.0	7.1	238	2.6	2.9	0.356	324	66
45	M3BP 225 SMB 4	3GBP222032-••G	1480	93.9	94.3	93.9	0.85	81.3	7.5	290	2.8	3.2	0.440	356	66
55	M3BP 250 SMA 4	3GBP252031-••G	1480	94.4	94.9	94.6	0.85	98.9	7.0	354	2.6	2.9	0.765	414	67
75	M3BP 280 SMA 4	3GBP282210-••G	1484	94.5	94.5	93.9	0.85	134	6.9	482	2.5	2.8	1.25	625	68
90	M3BP 280 SMB 4	3GBP282220-••G	1483	94.7	94.8	94.4	0.86	160	7.2	579	2.5	2.7	1.50	665	68
110	M3BP 315 SMA 4	3GBP312210-••G	1487	95.1	95.1	94.3	0.86	194	7.2	706	2.0	2.5	2.30	900	70
132	M3BP 315 SMB 4	3GBP312220-••G	1487	95.4	95.4	94.7	0.86	232	7.1	847	2.3	2.7	2.60	960	70
160	M3BP 315 SMC 4	3GBP312230-••G	1487	95.6	95.6	95.1	0.85	284	7.2	1027	2.4	2.9	2.90	1000	70
200	M3BP 315 MLA 4	3GBP312410-••G	1486	95.6	95.6	95.3	0.86	351	7.2	1285	2.5	2.9	3.50	1160	70
250	M3BP 355 SMA 4	3GBP352210-••G	1488	95.9	95.9	95.5	0.86	437	7.1	1604	2.3	2.7	5.90	1610	74
315	M3BP 355 SMB 4	3GBP352220-••G	1488	95.9	95.9	95.6	0.86	551	7.3	2021	2.3	2.8	6.90	1780	74
355	M3BP 355 SMC 4	3GBP352230-••G	1487	95.9	95.9	95.7	0.86	621	6.8	2279	2.4	2.7	7.20	1820	78
400	M3BP 355 MLA 4	3GBP352410-••G	1489	96.3	96.3	95.9	0.85	705	6.8	2565	2.3	2.6	8.40	2140	78
450	M3BP 355 MLB 4	3GBP352420-••G	1490	96.8	96.8	96.3	0.86	780	6.9	2884	2.3	2.9	8.40	2140	78
500	M3BP 355 LKA 4	3GBP352810-••G	1490	97.0	97.0	96.5	0.86	865	6.8	3204	2.0	3.0	10.0	2500	78
560	<sup>1)</sup> M3BP 355 LKB 4	3GBP352820-••G	1490	96.9	96.9	96.5	0.85	981	7.2	3588	2.6	2.7	10.6	2600	78
560	M3BP 400 LA 4	3GBP402510-••G	1491	96.8	96.8	96.3	0.85	982	7.4	3586	2.4	2.8	15.0	3200	78
560	M3BP 400 LKA 4	3GBP402810-••G	1491	96.8	96.8	96.3	0.85	982	7.4	3586	2.4	2.8	15.0	3200	78
560	M3BP 400 LKA 4	3GBP402810-••G	1491	96.8	96.8	96.3	0.85	982	7.4	3586	2.4	2.8	15.0	3200	78
630	M3BP 400 LB 4	3GBP402520-••G	1491	97.0	97.0	96.5	0.87	1077	7.6	4034	2.2	2.9	16.0	3300	78
630	M3BP 400 LKB 4	3GBP402820-••G	1491	97.0	97.0	96.5	0.87	1077	7.6	4034	2.2	2.9	16.0	3300	78
630	M3BP 400 LKB 4	3GBP402820-••G	1491	97.0	97.0	96.5	0.87	1077	7.6	4034	2.2	2.9	16.0	3300	78
710	<sup>1)</sup> M3BP 400 LC 4	3GBP402530-••G	1491	97.1	97.1	96.6	0.86	1227	7.6	4547	2.4	3.0	17.0	3400	78
710	<sup>1)</sup> M3BP 400 LKC 4	3GBP402830-••G	1491	97.1	97.1	96.6	0.86	1227	7.6	4547	2.4	3.0	17.0	3400	78
710	<sup>1)</sup> M3BP 400 LKC 4	3GBP402830-••G	1491	97.1	97.1	96.6	0.86	1227	7.6	4547	2.4	3.0	17.0	3400	78
800	M3BP 450 LA 4	3GBP452510-••G	1492	96.9	96.9	96.2	0.86	1385	7.0	5120	1.3	2.8	25.0	4050	85
900	M3BP 450 LB 4	3GBP452520-••G	1492	97.1	97.1	96.5	0.86	1555	7.0	5760	1.3	2.8	25.0	4350	85
1000	<sup>1)</sup> M3BP 450 LC 4	3GBP452530-••G	1491	97.2	97.2	96.7	0.86	1726	6.8	6404	1.3	2.7	30.0	4700	85

<sup>1)</sup> Temperature rise class F

# Technical data

## IE2 cast iron motors, 1500 r/min

IP 55 - IC 411 - Insulation class F, temperature rise class B  
IE2 efficiency class according to IEC 60034-30-1; 2014

Output kW	Motor type	Product code	Speed r/min	Efficiency IEC 60034-30-1; 2014			Power factor Cos φ	Current					Torque	Moment of inertia J = 1/4 GD <sup>2</sup> kgm <sup>2</sup>	Weight kg	Sound pressure Level L <sub>PA</sub> dB
				Full load 100%	3/4 load 75%	1/2 load 50%		I <sub>N</sub> A	I <sub>s</sub> /I <sub>N</sub>	T <sub>N</sub> Nm	T <sub>f</sub> /T <sub>N</sub>	T <sub>b</sub> /T <sub>N</sub>				
<b>1500 r/min = 4 poles</b>				<b>400 V 50 Hz</b>				<b>High-output design</b>								
18.5	M3BP 160 MLC 4	3GBP162033-••G	1469	91.4	92.4	92.2	0.84	34.7	7.6	120	3.0	3.2	0.110	173	62	
22	M3BP 160 MLD 4	3GBP162034-••G	1463	91.6	93.0	93.2	0.85	40.7	6.9	143	2.5	2.9	0.125	187	62	
30 <sup>1)</sup>	M3BP 180 MLC 4	3GBP182033-••G	1474	92.2	93.5	93.5	0.83	56.5	7.3	194	2.7	2.9	0.217	235	62	
37	M3BP 200 MLB 4	3GBP202032-••G	1479	93.4	94.4	94.4	0.85	67.2	7.1	238	2.6	2.9	0.343	307	63	
45 <sup>1)</sup>	M3BP 200 MLC 4	3GBP202033-••G	1479	93.6	94.4	94.2	0.83	83.6	7.5	290	2.9	3.2	0.366	319	63	
55	M3BP 225 SMC 4	3GBP222033-••G	1478	94.0	94.6	94.4	0.85	99.3	7.4	355	2.9	3.1	0.474	370	66	
64	M3BP 225 SMD 4	3GBP222034-••G	1480	94.2	94.6	94.1	0.85	115	8.2	412	3.3	3.3	0.542	399	66	
75 <sup>1)</sup>	M3BP 250 SMB 4	3GBP252032-••G	1478	94.4	95.1	94.8	0.85	134	7.3	484	2.8	3.1	0.866	450	67	
90 <sup>1)</sup>	M3BP 250 SMC 4	3GBP252033-••G	1478	94.6	95.3	95.0	0.84	163	7.4	581	3.1	3.3	0.941	478	67	
110	M3BP 280 SMC 4	3GBP282230-••G	1485	95.1	95.2	94.7	0.86	194	7.6	707	3.0	3.0	1.85	725	68	
132	M3BP 280 MLA 4	3GBP282410-••G	1483	95.3	95.5	95.2	0.86	232	7.0	849	2.7	2.8	2.30	840	75	
160	M3BP 280 MLB 4	3GBP282420-••G	1484	95.6	95.8	95.4	0.86	280	7.4	1029	2.9	2.9	2.50	890	75	
250	M3BP 315 LKA 4	3GBP312810-••G	1487	95.7	95.8	95.3	0.86	438	7.4	1605	2.5	2.9	4.40	1410	78	
280	M3BP 315 LKB 4	3GBP312820-••G	1487	95.8	95.9	95.4	0.87	484	7.6	1798	2.6	3.0	5.00	1520	78	
315	M3BP 315 LKC 4	3GBP312830-••G	1488	95.8	95.9	95.3	0.86	551	7.8	2021	2.6	3.2	5.50	1600	78	

<sup>1)</sup> Temperature rise class F