# Technical data
## IE3 cast iron motors, 1000 r/min

### IP 55 - IC 411 - Insulation class F, temperature rise class B
### IE3 efficiency class according to IEC 60034-30-1; 2014

| Output kW | Motor type | Product code | Speed r/min | Efficiency IEC 60034-30-1; 2014 Full load 100% | 3/4 load 75% | 1/2 load 50% | Power factor Cos φ | Current $I_N$ A | $I_S/I_N$ | Torque $T_N$ Nm | $T_I/T_N$ | $T_b/T_N$ | Moment of inertia J = 1/4 GD²kgm² | Weight kg | Sound pressure Level $L_{PA}$ dB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1000 r/min = 6 poles | | | | 400 V 50 Hz | | | | CENELEC-design | | | | | | | |
| 0.75 | M3BP 90 SLD 6 | 3GBP093040-••L | 944 | 78.9 | 79.4 | 77.6 | 0.73 | 1.9 | 4.4 | 7.57 | 2.1 | 2.8 | 0.00560 | 29 | 44 |
| 1.1 | M3BP 90 LF 6 | 3GBP093560-••L | 944 | 81.0 | 82.1 | 80.5 | 0.75 | 2.65 | 4.7 | 11.1 | 2.1 | 2.8 | 0.00680 | 33 | 44 |
| 1.5 | M3BP 100 MLB 6 | 3GBP103420-••L | 960 | 82.5 | 82.5 | 80.3 | 0.65 | 3.8 | 5.4 | 14.9 | 2.7 | 3.4 | 0.0120 | 41 | 49 |
| 2.2 | M3BP 112 MJ 6 | 3GBP113390-••L | 962 | 84.3 | 84.4 | 83.2 | 0.68 | 5.3 | 4.2 | 21.8 | 1.4 | 2.3 | 0.0196 | 53 | 66 |
| 3 | M3BP 132 SMB 6 | 3GBP133220-••L | 981 | 85.6 | 85.5 | 84.0 | 0.63 | 8.0 | 6.6 | 29.2 | 2.7 | 3.8 | 0.0355 | 75 | 57 |
| 4 | M3BP 132 SMF 6 | 3GBP133260-••L | 980 | 86.8 | 86.5 | 84.9 | 0.62 | 10.7 | 6.6 | 39.0 | 2.7 | 3.8 | 0.0416 | 82 | 57 |
| 5.5 | M3BP 132 SMJ 6 | 3GBP133290-••L | 966 | 88.0 | 88.5 | 88.0 | 0.72 | 12.5 | 5.0 | 54.0 | 1.7 | 2.7 | 0.0408 | 81 | 57 |
| 7.5 | M3BP 160 MLA 6 | 3GBP163051-••K | 980 | 90.8 | 91.5 | 91.0 | 0.78 | 15.2 | 7.9 | 73.0 | 1.7 | 3.3 | 0.114 | 172 | 59 |
| 11 | M3BP 160 MLB 6 | 3GBP163052-••K | 979 | 91.2 | 91.8 | 91.1 | 0.74 | 23.5 | 8.5 | 107 | 2.2 | 3.9 | 0.131 | 185 | 59 |
| 15 | M3BP 180 MLA 6 | 3GBP183051-••K | 981 | 92.2 | 92.4 | 91.5 | 0.77 | 30.4 | 7.7 | 146 | 2.2 | 3.5 | 0.225 | 234 | 59 |
| 18.5 | M3BP 200 MLA 6 | 3GBP203051-••K | 990 | 92.8 | 93.2 | 92.6 | 0.77 | 37.3 | 7.5 | 178 | 2.6 | 3.2 | 0.448 | 291 | 63 |
| 22 | M3BP 200 MLB 6 | 3GBP203052-••K | 990 | 93.3 | 93.7 | 93.1 | 0.79 | 43.0 | 7.8 | 212 | 2.6 | 3.2 | 0.531 | 318 | 63 |
| 30 | M3BP 225 SMA 6 | 3GBP223051-••K | 989 | 94.1 | 94.6 | 94.4 | 0.81 | 56.8 | 7.9 | 289 | 2.8 | 3.1 | 0.813 | 392 | 63 |
| 37 | M3BP 250 SMA 6 | 3GBP253051-••K | 991 | 94.4 | 94.9 | 94.7 | 0.83 | 68.0 | 7.7 | 356 | 2.7 | 2.9 | 1.49 | 467 | 63 |
| 45 | M3BP 280 SMB 6 | 3GBP283220-••K | 991 | 94.8 | 94.9 | 94.2 | 0.86 | 79.6 | 6.9 | 433 | 2.4 | 2.6 | 2.20 | 680 | 65 |
| 45 | M3BP 280 SMB 6 | 3GBP283220-••L | 991 | 93.7 | 94.0 | 93.5 | 0.84 | 82.5 | 7.4 | 433 | 2.7 | 3.0 | 1.87 | 645 | 72 |
| 55 | M3BP 280 SMC 6 | 3GBP283230-••L | 992 | 94.1 | 94.4 | 93.9 | 0.85 | 99.3 | 7.5 | 528 | 2.8 | 3.0 | 2.57 | 725 | 71 |
| 75 | M3BP 315 SMB 6 | 3GBP313220-••L | 994 | 94.6 | 94.8 | 94.3 | 0.84 | 136 | 6.8 | 720 | 1.8 | 2.6 | 4.10 | 930 | 75 |
| 90 | M3BP 315 SMC 6 | 3GBP313230-••L | 994 | 94.9 | 95.1 | 94.5 | 0.84 | 163 | 7.2 | 864 | 2.0 | 3.0 | 4.60 | 1000 | 76 |
| 110 | M3BP 315 SMD 6 | 3GBP313240-••L | 994 | 95.1 | 95.3 | 94.8 | 0.83 | 201 | 7.3 | 1056 | 2.2 | 3.1 | 4.90 | 1000 | 75 |
| 132 | M3BP 315 MLB 6 | 3GBP313420-••L | 995 | 95.4 | 95.5 | 94.8 | 0.82 | 244 | 7.3 | 1266 | 2.3 | 3.2 | 6.30 | 1200 | 72 |
| 160 | M3BP 355 SMA 6 | 3GBP353210-••L | 993 | 95.7 | 96.0 | 95.7 | 0.82 | 294 | 6.7 | 1538 | 2.5 | 2.6 | 7.90 | 1520 | 75 |
| 200 | M3BP 355 SMB 6 | 3GBP353220-••L | 993 | 95.8 | 96.1 | 95.9 | 0.82 | 367 | 6.7 | 1923 | 2.6 | 2.5 | 9.70 | 1680 | 75 |
| 250 | M3BP 355 SMC 6 | 3GBP353230-••L | 993 | 95.9 | 96.1 | 95.8 | 0.81 | 465 | 7.7 | 2404 | 3.0 | 3.1 | 11.3 | 1820 | 75 |
| 315 | M3BP 355 MLB 6 | 3GBP353420-••L | 993 | 96.0 | 96.3 | 96.0 | 0.83 | 571 | 6.8 | 3029 | 2.6 | 3.2 | 13.5 | 2180 | 76 |
| 355 | M3BP 355 LKA 6 | 3GBP353810-••L | 993 | 96.0 | 96.2 | 95.9 | 0.81 | 659 | 7.5 | 3413 | 2.9 | 3.2 | 15.5 | 2500 | 76 |

| Output kW | Motor type | Product code | Speed r/min | Efficiency IEC 60034-30-1; 2014 Full load 100% | 3/4 load 75% | 1/2 load 50% | Power factor Cos φ | Current $I_N$ A | $I_S/I_N$ | Torque $T_N$ Nm | $T_I/T_N$ | $T_b/T_N$ | Moment of inertia J = 1/4 GD²kgm² | Weight kg | Sound pressure Level $L_{PA}$ dB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1000 r/min = 6 poles | | | | 400 V 50 Hz | | | | High-output design | | | | | | | |
| 75 | M3BP 280 SMD 6 | 3GBP283240-••L | 991 | 94.6 | 94.9 | 94.5 | 0.85 | 135 | 7.6 | 723 | 2.8 | 3.0 | 3.00 | 740 | 73 |
| 160 | M3BP 315 LKA 6 | 3GBP313810-••L | 994 | 95.6 | 95.8 | 95.4 | 0.81 | 298 | 7.5 | 1535 | 2.2 | 3.1 | 7.30 | 1410 | 76 |
| 180 | M3BP 315 LKB 6 | 3GBP313820-••L | 994 | 95.8 | 95.9 | 95.4 | 0.82 | 331 | 7.6 | 1729 | 2.3 | 3.1 | 8.30 | 1520 | 76 |
| 200 | M3BP 315 LKC 6 | 3GBP313830-••L | 993 | 95.8 | 96.1 | 95.8 | 0.82 | 367 | 7.0 | 1923 | 2.2 | 2.8 | 9.20 | 1600 | 76 |