

T.E.F.C. 3 PHASE CAGE MOTORS

Frame size 63 to 132M, Insulation class F, suitable for 400V \pm 10%, 50 Hz \pm 5%, ambient temperature 40°C, IP 55 protection, conforming to IEC 34-1

Selection and Ordering data

| Rated Output | Frame Size | Torque Class | Moment of Inertia | Performance at rated output | | | | | Locked rotor torque | Locked rotor current | Break down torque | Order No. | Weight approx. |
|--------------------------|------------|---|-------------------|-----------------------------|------------|--------------|-----------------------|--------------|---|----------------------|-----------------------|--|----------------|
| | | | | Rated Speed | Efficiency | Power Factor | Rated current at 400V | Rated torque | | | | | |
| | | | J | | | | | | for direct on line starting as multiples of | | | Order No. suffix for type of construction, see table below | |
| kW | | KL | kg m ² | rpm | % | | A | Nm | Rated torque | Rated current | Rated torque | | kg |
| 1000 rpm (6 pole) | | | | | | | | | | | | | |
| 025 | 71 | 16 | 0.0009 | 825 | 59 | 0.74 | 0.83 | 2.8 | 2.0 | 3.0 | 2.0 | 1LA7 073-6AA1. | 6.3 |
| 0.37 | 80 | 16 | 0.0015 | 910 | 62 | 0.72 | 1.19 | 3.9 | 1.9 | 2.3 | 2.0 | 1LA7 080-6AA1. | 7.5 |
| 0.55 | 80 | 16 | 0.0018 | 900 | 65 | 0.73 | 1.67 | 5.8 | 2.0 | 3.2 | 2.1 | 1LA7 083-6AA1. | 9.4 |
| 0.75 | 90 S | 16 | 0.0028 | 895 | 67 | 0.77 | 2.1 | 8.0 | 2.2 | 3.9 | 2.3 | 1LA7 090-6AA1. | 12.5 |
| 1.1 | 90 L | 16 | 0.0035 | 900 | 71 | 0.75 | 3.0 | 12 | 2.4 | 4.1 | 2.4 | 1LA7 096-6AA1. | 15.7 |
| 1.5 | 100 L | 16 | 0.0063 | 925 | 74 | 0.75 | 3.9 | 15 | 2.3 | 4.0 | 2.3 | 1LA7 106-6AA1. | 24 |
| 2.2 | 112 M | 16 | 0.011 | 940 | 78 | 0.78 | 5.2 | 22 | 2.2 | 4.6 | 2.5 | 1LA7 113-6AA6. | 27 |
| 3.0 | 132 S | 16 | 0.015 | 950 | 79 | 0.76 | 7.2 | 30 | 1.9 | 4.2 | 2.2 | 1LA7 130-6AA6. | 41 |
| 4.0 | 132 M | 16 | 0.019 | 950 | 80.5 | 0.76 | 9.4 | 40 | 2.1 | 4.5 | 2.4 | 1LA7 133-6AA6. | 46 |
| 5.5 | 132 M | 16 | 0.025 | 950 | 83 | 0.76 | 12.8 | 55 | 2.3 | 5.0 | 2.6 | 1LA7 134-6AA6. | 54 |
| 750 rpm (8 pole) | | | | | | | | | | | | | |
| 0.37 | 90 S | 13 | 0.0025 | 655 | 61 | 0.76 | 1.16 | 5.3 | 1.4 | 2.8 | 1.7 | 1LA7 090-8AB1. | 10.5 |
| 0.55 | 90 L | 13 | 0.0035 | 650 | 65 | 0.76 | 1.62 | 7.9 | 1.5 | 2.9 | 1.7 | 1LA7 090-8AB1. | 13.2 |
| 0.75 | 100 L | 13 | 0.0053 | 680 | 66 | 0.76 | 2.15 | 11 | 1.6 | 3.0 | 1.9 | 1LA7 106-8AB1. | 20 |
| 1.1 | 100 L | 13 | 0.007 | 680 | 72 | 0.76 | 2.9 | 16 | 1.8 | 3.3 | 2.1 | 1LA7 107-8AB1. | 22 |
| 1.5 | 112 M | 13 | 0.013 | 705 | 74 | 0.76 | 3.9 | 21 | 1.8 | 3.7 | 2.1 | 1LA7 113-8AB1. | 24 |
| 2.2 | 132 S | 13 | 0.014 | 700 | 75 | 0.74 | 5.7 | 30 | 1.9 | 3.9 | 2.3 | 1LA7 130-8AB6. | 41 |
| 3.0 | 132 M | 13 | 0.019 | 700 | 77 | 0.74 | 7.6 | 40 | 2.1 | 4.1 | 2.4 | 1LA7 133-8AB6. | 49 |
| Construction | | IM B3 / IM B6 / IM B7 / IM B8 / IM V5 / IM V6 | | | | | | | | | IM B5 / IM V1 / IM V3 | | |
| Order No. suffix | | 0 | | | | | | | | | 1 | | |

Motors rated upto 1.5 kW are suitable for 230V Δ / 400 VY 50 Hz; or 460 VY 60 Hz

Motors rated 2.2 kW and above are suitable for 400V Δ / 690 VY 50 Hz; or 460V Δ 60 Hz

Note : Considering that the introduction of the 1LA7 series motors is in a phased manner to replace the 1LA2 series motors (in frames 71 to 132M), the initial supplies of certain motors could be in 1LA2 series. The fixing dimensions of these motors would be same as that of the 1LA7 series motors, given overleaf. For performance values please contact our nearest sales office.