# Datasheet

marathon™ Motors

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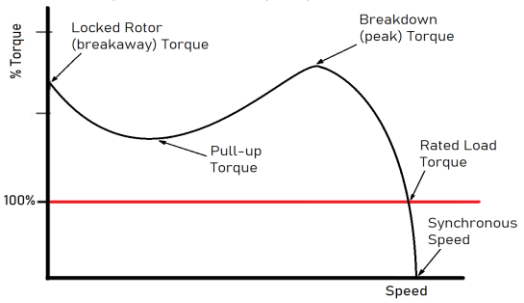
**Model No.** 2-Pole cage motor TCA 90L 2,2kW D230V 50Hz IM2101-FT130

| U (V) | Δ / Y Conn | f [Hz] | P [kW] | P [hp] | I [A] | n [RPM] | T [Nm] | IE Class | % EFF at __ load FL | 3/4FL | 1/2FL | PF at __load FL | 3/4FL | 1/2FL | $I_A/I_N$ [pu] | $T_A/T_N$ [pu] | $T_K/T_N$ [pu] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 230 | D | 50 | 2,2 | 3 | 7,3 | 2889 | 7,3 | IE3 | 85,9 | 85,9 | 84,7 | 0,88 | 0,82 | 0,70 | 8,10 | 3,80 | 3,60 |
| 400 | Y | | | | 4,2 | | | | | | | | | | | | |
| 265 | D | 60 | 2,5 | 3,351 | 7,2 | 3490 | 6,8 | IE3 | 86,5 | 86,5 | 85,3 | 0,87 | 0,84 | 0,73 | 9,20 | 4,05 | 3,86 |
| 460 | Y | | | | 4,2 | | | | | | | | | | | | |

| | | | |
|---|---|---|---|
| Motor type | **TCA90L2E3** | Degree of protection | **IP55** |
| Enclosure | **Totally Enclosed Fan Cooling** | Mounting type | **IM2101-FT130** |
| Frame Material | **Cast iron** | Cooling method | **IC411** |
| Frame size | **90L** | Motor weight - approx. | **26** kg |
| Duty | **S1** | Gross weight - approx. | **27** kg |
| Voltage | **230** V | | |
| Frequency | **50** Hz | | |
| Power output | **2,2** kW | Vibration level | **according IEC60034-14** |
| Insulation class | **F** | | |
| Ambient temperature | **-20 till 40** °C | | |
| Temperature rise | **-** | | |
| Temperature rise winding | **56** K | | |
| Temperature rise surface | **35** K | Direction of rotation | **cw /ccw** |
| Altitude above sea level | **1000** mtr | | |
| Hazardous area classification | **Safe area** | | **PTC 150°C** |
| Rotor type | **Cage motor** | | |
| Bearing type | **6205-2Z/C3WT** | | |
| Type of grease | **Chevron SRI-2** | | |
| Country of origin | **CN** | | |

| Voltage/Freq | Locked rotor Torque [% nom] | Starting current [% nom] | Pull-up Torque [% nom] | Breakdown Torque [% nom] | No-load Current [A] |
|---|---|---|---|---|---|
| @ D 230V 50Hz | 380% | 813% | | 360% | |
| @ D 265V 60Hz | 405% | 918% | | 386% | |

Schematic presentation of torque-speed curve

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**NOTE**

All performance values at rated voltage and frequency. P000043512

All performance parameters are subjected to standard tolerance as per IEC 60034-1 P000019550

Voltage, Frequency are as per IEC60034-1

Technical data are subject to change. There may be discrepancies between calculated and name plate values.

| | | |
|---|---|---|
| Efficiency | Europe | Global IEC |
| Standards | EN-IEC: 60034-30 | IEC: 60034-30 |

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