# Datasheet

rotor nl

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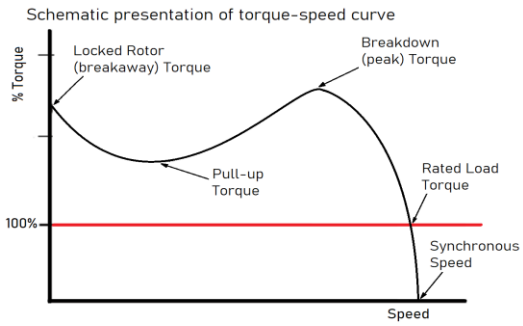
**Model No.** 4-Pole cage motor 6RN 90L 1,5kW D254V 60Hz IM2181-FT130

| 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] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 254 | D | 60 | 1,5 | 2 | 4,87 | 1746 | 8,2 | IE3 | 87,0 | | | 0,81 | | | 8,25 | 2,78 | 4,01 |
| 440 | Y | | | | 2,81 | | | | | | | | | | | | |

| | | | |
|---|---|---|---|
| Motor type | **6RN90L04E34** | Degree of protection | **IP55** |
| Enclosure | **Totally Enclosed Fan Cooling** | Mounting type | **IM2181-FT130** |
| Frame Material | **Aluminum** | Cooling method | **IC411** |
| Frame size | **90L** | Motor weight - approx. | **21** kg |
| Duty | **S1** | Gross weight - approx. | **22** kg |
| Voltage | **254** V | Motor inertia | **0,0036** kgm² |
| Frequency | **60** Hz | | |
| Power output | **1,5** kW | Vibration level | **according IEC60034-14** |
| | | Noise level (pressure) acc 60034-9 | **58** dB(A) |
| Insulation class | **F** | | |
| Ambient temperature | **-20 till 40** °C | | |
| Temperature rise | **temp.rise acc. B** | | |
| Temperature rise winding | **29** K | | |
| Temperature rise surface | | Direction of rotation | **cw /ccw** |
| Altitude above sea level | **1000** mtr | | |
| Hazardous area classification | **Safe area** | | |
| Te time | 0 sec | | |
| Rotor type | **Cage motor** | | |
| Bearing type | **6004-2Z/C3WT** | | |
| Type of grease | **Unirex N3** | | |
| Country of origin | **CZ** | | |

| Voltage/Freq | Locked rotor Torque [% nom] | Starting current [% nom] | Pull-up Torque [% nom] | Breakdown Torque [% nom] | No-load Current [A] |
|---|---|---|---|---|---|
| @ D 254V 60Hz | 278% | 825% | 263% | 401% | 2,58 A |

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**NOTE**

All performance values at rated voltage and frequency.
All performance parameters are subjected to standard tolerance as per IEC 60034-1
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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