# Datasheet

rotor nl

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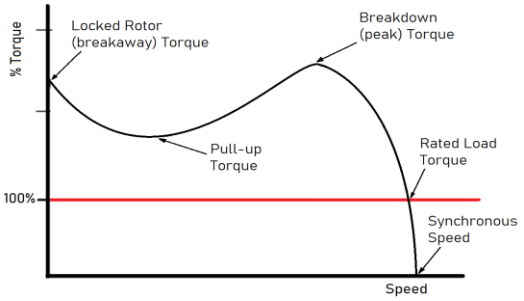
**Model No.** 8-Pole cage motor 6RN 315L 90kW D400V 50Hz IM1041

| 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] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 400 | D | 50 | 90 | 120 | 168 | 740 | 1161,5 | IE3 | 93,4 | 94,2 | 94,3 | 0,83 | 0,79 | 0,70 | 5,80 | 2,20 | 2,50 |
| 690 | Y | | | | 96,9 | | | | | | | | | | | | |
| 460 | D | 60 | 108 | 144,8 | 174 | 890 | 1158,9 | IE3 | 94,1 | | | 0,83 | | | 5,50 | 2,00 | 2,40 |

| | | | |
|---|---|---|---|
| Motor type | **6RN315L08E34** | Degree of protection | **IP55** |
| Enclosure | **Totally Enclosed Fan Cooling** | Mounting type | **IM1041** |
| Frame Material | **Cast iron** | Cooling method | **IC411** |
| Frame size | **315L** | Motor weight - approx. | **870** kg |
| Duty | **S1** | Gross weight - approx. | **900** kg |
| Voltage | **400** V | Motor inertia | **3,1000** kgm² |
| Frequency | **50** Hz | | |
| Power output | **90** kW | Vibration level | **according IEC60034-14** |
| Insulation class | **F** | | |
| Ambient temperature | **-20 till 40** °C | | |
| Temperature rise | **-** | | |
| Temperature rise surface | | 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 | **6319/C3** | | |
| Lubrication method | **40gr/6000hrs** | | |
| 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 400V 50Hz | 220% | | | 250% | |
| @ D 460V 60Hz | 200% | 550% | | 240% | |

Schematic presentation of torque-speed curve

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**NOTE**

All performance values at rated voltage and frequency. P000052631

All performance parameters are subjected to standard tolerance as per IEC 60034-1 P000059500

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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