

PRODUCT INFORMATION PACKET

rotor nl®

Model No: 6RN100L04E34U46B1081-Uni

Catalog No: 6RN100L04E34U46B@1081-Uni

2.20 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1500 rpm, D400/Y690V 50Hz,
100L Frame B3, IC411



Regal and Rotor nl are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E

RegalRexnord



Nameplate Specifications

| | | | |
|------------------------|-----------------------------|----------------------------|-----------------------------|
| Output HP | 3 Hp | Output KW | 2.2 kW |
| Frequency | 50 Hz | Voltage | D400/Y690 V |
| Current | 4.41 A | Speed | 1465 rpm |
| Service Factor | 1 | Phase | 3 |
| Efficiency | 86.7 % | Power Factor | 0.83 |
| Duty | S1 | Insulation Class | F |
| Frame | 100L | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No Protection | Ambient Temperature | 40 °C |
| Drive End Bearing Size | 6306-2Z/C3WT (-40°C/+160°C) | Opp Drive End Bearing Size | 6306-2Z/C3WT (-40°C/+160°C) |
| UL | No | CSA | Optional |
| CE | Yes | IP Code | IP55 |
| Number of Speeds | 1 | Efficiency Class | IE3 |

Technical Specifications

| | | | |
|-----------------|--------------------------|-------------------|---------------------|
| Electrical Type | Squirrel Cage | Starting Method | Direct On Line |
| Poles | 4 | Rotation | Clockwise Shaft End |
| Mounting | B3 | Motor Orientation | Any |
| Frame Material | Cast iron | Shaft Type | Keyed |
| Shaft Diameter | 28 mm | Shaft Extension | 60 mm |
| Outline Drawing | 6RN100L04E34U46B1081-Uni | | |

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:12/02/2022

Datasheet

rotor nl®

rotor b.v.

Mors 1-5, 7151 MX Eibergen NL
www.rotor.nl tel.: +31 545 464640
sales@rotor.nl tel.: +31 545 464646

Model No. 4-Pole cage motor 6RN 100L 2,2kW D400V 50Hz IM1081

| 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 | 2,2 | 3 | 4,41 | 1465 | 14 | IE3 | 86,7 86,7 85,7 | 0,83 | 8,40 | 2,00 | 3,60 |
| 690 | Y | | | | 2,55 | | | | | | | | |
| 460 | D | 60 | 2,55 | 3,418 | 4,32 | 1765 | 14 | IE2 | 88,1 89,5 | 0,84 0,80 | 8,40 | 2,00 | 3,70 |

| | |
|-------------------------------|------------------------------|
| Motor type | 6RN100L04E34 |
| Enclosure | Totally Enclosed Fan Cooling |
| Frame Material | Cast iron |
| Frame size | 100L |
| Duty | S1 |
| Voltage | 400 V |
| Frequency | 50 Hz |
| Power output | 2,2 kW |
| Insulation class | F |
| Ambient temperature | -20 till 40 °C |
| Temperature rise | temp.rise acc. B (80K) |
| Temperature rise winding | 34 K |
| Temperature rise surface | |
| Altitude above sea level | 1000 mtr |
| Hazardous area classification | Safe area |

| | |
|--------------|-----------------------------|
| Rotor type | Cage motor |
| Bearing type | 6306-2Z/C3WT - 6306-2Z/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 400V 50Hz | 200% | 839% | 160% | 360% | 2,09 A |
| @ D 460V 60Hz | 200% | 828% | 148% | 370% | 1,95 A |

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.

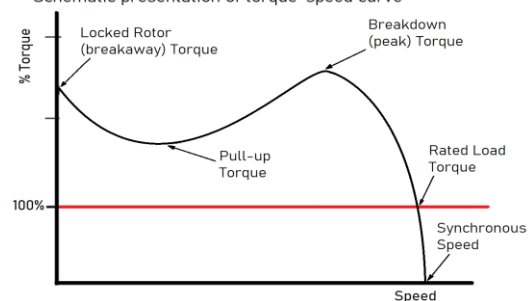
| | | |
|------------|------------------|---------------|
| Efficiency | Europe | Global IEC |
| Standards | EN-IEC: 60034-30 | IEC: 60034-30 |

This is an uncontrolled copy, data can be changed anytime.

| | |
|------------------------|-------------------------|
| Degree of protection | IP55 |
| Mounting type | IM1081 |
| Cooling method | IC411 |
| Motor weight - approx. | 41 kg |
| Gross weight - approx. | 42 kg |
| Motor inertia | 0,0140 kgm ² |
| Vibration level | according IEC60034-14 |

| | |
|-----------------------|----------|
| Direction of rotation | cw / ccw |
|-----------------------|----------|

Schematic presentation of torque-speed curve



rotor
is a
ISO 9001
certified
company

REGAL BvD

6RN100L04E34 4-pole 2,20kW D/Y 400/690V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive

