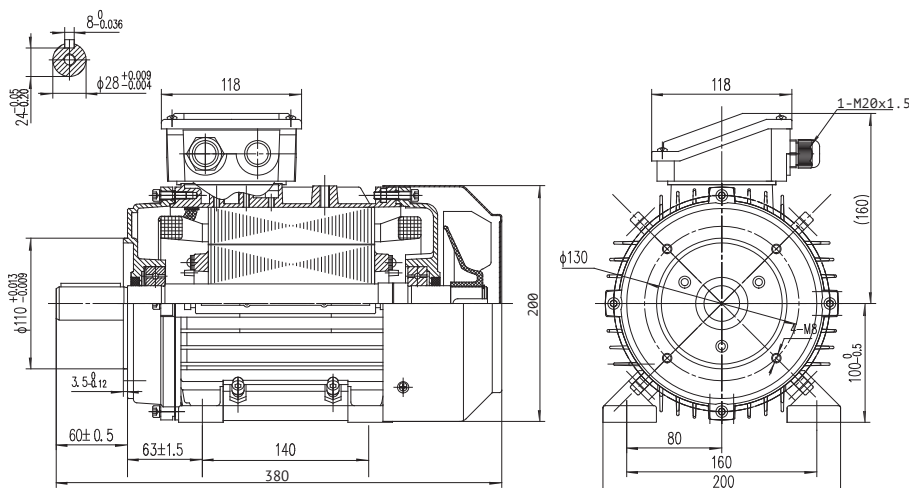


Type T2A 100L2-2

Cod. I100L204,0BB5A00000T

Mounting position

|    |      |
|----|------|
| IM | B34  |
| IM | 2101 |



| Electrical data             |       |         |                        |
|-----------------------------|-------|---------|------------------------|
| Rated motor power           | 4     |         | Kw                     |
| Rated motor speed           | 2910  |         | min <sup>-1</sup> 50Hz |
|                             | 3495  |         | min <sup>-1</sup> 60Hz |
| Rated motor frequency       | 50    |         | Hz                     |
| Rated motor voltage(+/-10%) | 400   |         | VΔ/50Hz                |
|                             | 690   |         | VY/50Hz                |
|                             | 480   |         | VΔ/60Hz                |
|                             | 830   |         | VY/60Hz                |
| Rated motor torque          | 13.13 |         | Nm (Mn)                |
| Rated motor current         | 7.73  | VΔ/50Hz | A (In)                 |
|                             | 4.47  | VY/50Hz | A (In)                 |
| Starting motor current      | 9.9   |         | xIn                    |
| Starting motor torque       | 3.7   |         | xMn                    |
| Breakdown motor torque      | 4.2   |         | xMn                    |
| Starting                    |       |         | D.O.L.                 |
| Efficiency class            | IE2   |         |                        |
| Efficiency                  | 50Hz  | 60Hz    |                        |
|                             | 85.8  | -       | 100% load              |
|                             | 86    | -       | 75% load               |
|                             | 84.7  | -       | 50% load               |
| Power factor cosφ           | 0.87  | -       | 100% load              |

| General data          |                    |             |
|-----------------------|--------------------|-------------|
| Frame size            | 100                |             |
| Mounting              | B34                |             |
| Weight                | -                  | Kg          |
| Casing material       | Aluminum           |             |
| Protection            | IP                 | 55          |
| Insulation class      | H                  |             |
| Tropicalization       | Yes                |             |
| Vibration class       | A                  |             |
| Duty                  | S1                 |             |
| Direction of rotation | Bidirectional      |             |
| Method of cooling     | IC                 | 411         |
| Cable entry           | 2-M20x1,5          |             |
| Standards             | IEC/DIN/ISO/VDE/EN |             |
| Execute at Standard   | IEC 60034-1        |             |
| Feet removable        | Yes                |             |
| Paintwork             | 7024               | C2 standard |
| Thermal protections   | n/a                |             |

| Site conditions          |                     |
|--------------------------|---------------------|
| Ambient temperature      | from -20°C to +40°C |
| Altitude above sea level | 1000 m              |

| Mechanical data         |   |    |                  |                                       |             |
|-------------------------|---|----|------------------|---------------------------------------|-------------|
| Noise level             | LpA                                     | 77 | dB(A)            | Bearing DE side                       | 6206-2RS-C3 |
|                         | LwA                                     | 87 | dB(A)            | Bearing NDE side                      | 6206-2RS-C3 |
| Moment of inertia       | 0.0052                                  |    | Kgm <sup>2</sup> | Average bearing lifetime              | 40000 h     |
| Bearings type           |   |    | NSK              | Relubrication interval L1 DE bearing  | - h         |
| Lubricants for bearings | See installation and maintenance manual |    |                  | Relubrication interval L1 NDE bearing | - h         |
|                         |   |    |                  | Compensation ring                     | NDE SIDE    |

There may be differences between rating plate and calculated values.

# Type Test Report

Type: T2A100L2-2

Voltage: 400/230 V

Output: 4 kW

Connection: Y/Δ

Frequency: 50 Hz

Duty: S1

| Test Item  |  | Result    |       |         |      |
|--|--|-----------|-------|---------|------|
| 1.   | Efficiency %                             | 87.9      |       |         |      |
| 2.   | Power Factor                             | 0.874     |       |         |      |
| 3.   | Tem. Rise of Stator Winding K            | 54        |       |         |      |
| 4.   | Vibration mm/s                           |           |       |         |      |
| 5.   | Noise Lp dB (A) (Lw)                     |           |       |         |      |
| 6.   | Breakdown Torque/Rated Torque            | 4.07      |       |         |      |
| 7.   | Pullup Torque/Rated Torque               | 2.28      |       |         |      |
| 8.   | Locked Rotor Tor./Rated Tor.             | 3.75      |       |         |      |
| 9.   | Locked Rotor Cur./Rated Cur.             | 9.90      |       |         |      |
| 10.  | High Voltage Test V                      | 1800      |       |         |      |
| 11.  | Hot Insulation Res. of Stator Winding MΩ | 300.      |       |         |      |
| 12.  | Temperature of Bearing °C                | 47        |       |         |      |
| 13.  | Unbalance of Current %                   | 5.60      |       |         |      |
| 14.  | Full Load line Current A                 | 7.510     |       |         |      |
| 15.  | Full Load input W                        | 4550      |       |         |      |
| 16.  | Full Load torque Nm                      | 13.18     |       |         |      |
| 17.  | Max.temp.of enclosure surface °C         | 44.2      |       |         |      |
| 18.  | No Load Current A                        | 3.404     |       |         |      |
| 19.  | Slip %                                   | 2.911     |       |         |      |
| 20.  | Stator Winding phase resistance Ω (95°C) | 1.3336    |       |         |      |
| 21.  | Stray Load Loss W                        | 27.19     |       |         |      |
| 22.  | No Load Stator Power W                   | 224.3     |       |         |      |
| 23.  | Core Loss W                              | 131.1     |       |         |      |
| 24.  | Friction & Windage Loss W                | 54.45     |       |         |      |
| 25.  | Locked Rotor Power W                     | 38747     |       |         |      |
| 26.  | Stator I ii R Loss W                     | 214.7     |       |         |      |
| 27.  | Rotor I ii R Loss W                      | 122.4     |       |         |      |
| 28.  | Locked Rotor Voltage 100.0V              | Current A | 15.02 | Power W | 1742 |
| Remark:  |  |           |       |         |      |
| 75%eff: 88.16                      50%eff: 86.78 |  |           |       |         |      |

Check:

Operator:

# Torque - Speed Curve

Type: T2A100L2-2

Output: 4 kW

Frequency: 50 Hz

Voltage: 400/230 V

Connection: Y/Δ

