



# OMEC NORTH AMERICA INC

ALUMINIUM - GENERAL PURPOSE MOTORS

## PRODUCT FEATURES

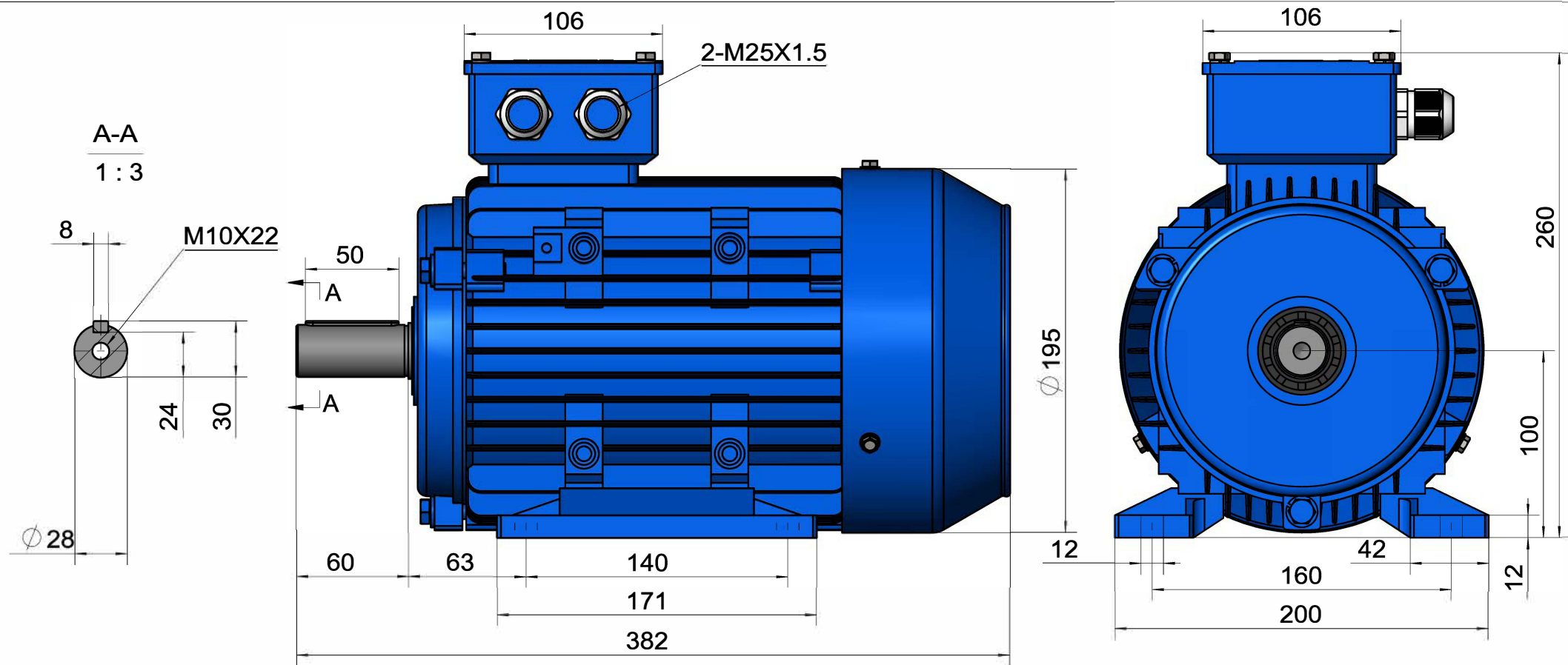
|                          |                    |                          |                      |
|--------------------------|--------------------|--------------------------|----------------------|
| Model Number             | OMT4-100L00-4 3KW  |                          |                      |
| Standard                 | IEC 60034-1        | Output                   | 3.00 KW              |
| Hazardous Classification | None (Safe Area)   | No of Poles              | 4 Pole               |
| Efficiency Class         | IE3                | Frame Size               | 100L                 |
| Number of Phases         | 3 Phase- Induction | Mounting Type            | B3; B35, B14, B5, V1 |
| Material of Construction | Aluminium          | Enclosure Type / Cooling | TEFC-IC411           |
| Insulation Class         | Class F            | Degree of Protection     | IP55                 |
| Temperature Rise Class   | 80K (B class)      | Duty Cycle               | S1- Continuous Duty  |
| Ambient Temperature      | -15°C ~ 50°C       | Service Factor           | SF 1.15              |
| Starting Method          | DOL / WYE-DELTA    | Operating Altitude       | 1000 masl            |

## TECHNICAL DETAILS

|                                  |           |          |          |          |          |          |          |
|----------------------------------|-----------|----------|----------|----------|----------|----------|----------|
| Winding Connection               | Y (Star)  |          |          |          |          |          |          |
| Frequency                        | 50Hz      |          |          | 60Hz     |          |          |          |
| Rated Speed                      | 1440 Rpm  |          |          | 1725 Rpm |          |          |          |
| Voltage                          | 380       | 400      | 415      | 380      | 400      | 440      | 460      |
| Full Load Current [ IN ]         | 6.42 A    | 6.10 A   | 5.88 A   | 6.42 A   | 6.10 A   | 5.54 A   | 5.30 A   |
| Locked Rotor Current [ IL / IN ] | 7.6       | 7.6      | 7.6      | 7.6      | 7.6      | 7.6      | 7.6      |
| Full Load Torque [ TN ]          | 19.90 Nm  | 19.90 Nm | 19.90 Nm | 16.61 Nm | 16.61 Nm | 16.61 Nm | 16.61 Nm |
| Locked Rotor Torque [ TL / TN ]  | 2.3       | 2.3      | 2.3      | 2.8      | 2.8      | 2.8      | 2.8      |
| Breakdown Torque [ TB / TN ]     | 3.0       | 3.0      | 3.0      | 3.6      | 3.6      | 3.6      | 3.6      |
| Efficiency                       | 50% load  | 85.6%    | 85.6%    | 85.6%    | 85.6%    | 85.6%    | 85.6%    |
|                                  | 75% load  | 87.6%    | 87.6%    | 87.6%    | 87.6%    | 87.6%    | 87.6%    |
|                                  | 100% load | 87.7%    | 87.7%    | 87.7%    | 87.7%    | 87.7%    | 87.7%    |
| Power Factor (cos φ)             | 50% load  | 0.58     | 0.58     | 0.58     | 0.58     | 0.58     | 0.58     |
|                                  | 75% load  | 0.73     | 0.73     | 0.73     | 0.73     | 0.73     | 0.73     |
|                                  | 100% load | 0.81     | 0.81     | 0.81     | 0.81     | 0.81     | 0.81     |

## OTHER DETAILS

|                                        |                             |                       |                 |
|----------------------------------------|-----------------------------|-----------------------|-----------------|
| Bearing Configuration (DE / NDE)       | Ball Bearing / Ball Bearing |                       |                 |
| Bearing Lubrication Type               | Grease - ESSO UNIREX N2     |                       |                 |
| Bearing Series Type                    | DE:                         | 6206-2Z/C3            | NDE: 6206-2Z/C3 |
| Vibration                              | 1.6 mm/sec                  | Direction of Rotation | CW or CCW       |
| Moment of inertia (kg.m <sup>2</sup> ) | 0.0131                      | Sound Pressure Level  | 70 dB(A)        |
| Final Colour                           | RAL-7031 : BLUE GREY        | Paint Specification   | 2 Pack Epoxy    |
| Terminal Box Position                  | TOP/SIDE                    | Weight                | 25 kg           |



100L-B3  
Mounting diagram



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### Performance Curves

kW: 3 RPM: 1440

IE3 GENERAL PURPOSE MOTORS- OMT 400V 50Hz

