



OMEC NORTH AMERICA INC

CAST IRON - GENERAL PURPOSE MOTORS

PRODUCT FEATURES

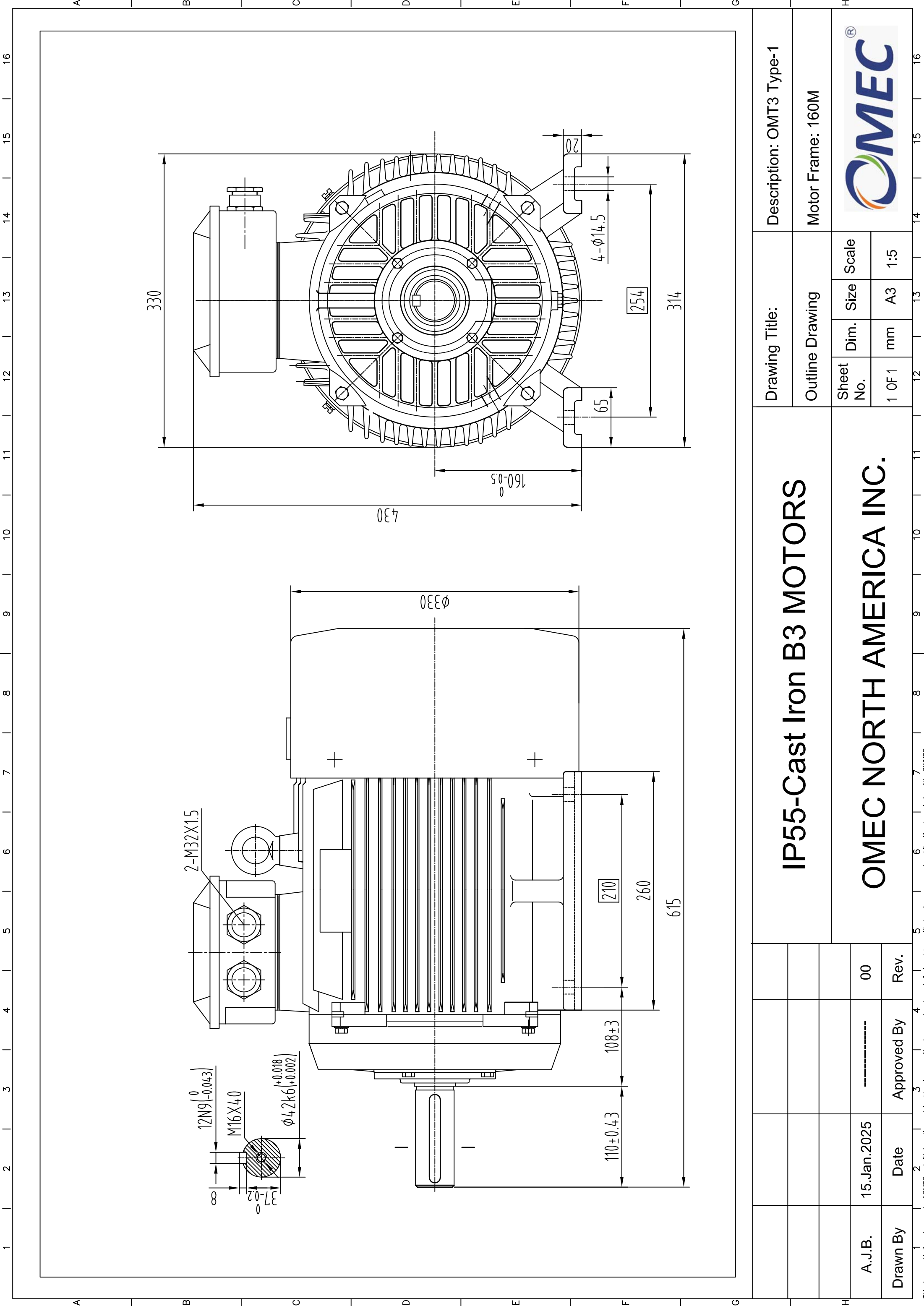
| | | | |
|--------------------------|--------------------|--------------------------|----------------------|
| Model Number | OMT3-160M00-2 15KW | | |
| Standard | IEC 60034-1 | Output | 15.00 KW |
| Hazardous Classification | None (Safe Area) | No of Poles | 2 Pole |
| Efficiency Class | IE3 | Frame Size | 160M |
| Number of Phases | 3 Phase- Induction | Mounting Type | B3; B35, B14, B5, V1 |
| Material of Construction | Cast Iron | 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 | Δ (Delta) | | | | | | |
| Frequency | 50Hz | | | 60Hz | | | |
| Rated Speed | 2945 Rpm | | | 3530 Rpm | | | |
| Voltage | 380 | 400 | 415 | 380 | 400 | 440 | 460 |
| Full Load Current [IN] | 27.86 A | 26.47 A | 25.51 A | 27.86 A | 26.47 A | 24.06 A | 23.02 A |
| Locked Rotor Current [IL / IN] | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 |
| Full Load Torque [TN] | 48.64 Nm | 48.64 Nm | 48.64 Nm | 40.58 Nm | 40.58 Nm | 40.58 Nm | 40.58 Nm |
| Locked Rotor Torque [TL / TN] | 2.0 | 2.0 | 2.0 | 2.4 | 2.4 | 2.4 | 2.4 |
| Breakdown Torque [TB / TN] | 2.3 | 2.3 | 2.3 | 2.8 | 2.8 | 2.8 | 2.8 |
| Efficiency | 50% load | 90.4% | 90.4% | 90.4% | 90.4% | 90.4% | 90.4% |
| | 75% load | 91.8% | 91.8% | 91.8% | 91.8% | 91.8% | 91.8% |
| | 100% load | 91.9% | 91.9% | 91.9% | 91.9% | 91.9% | 91.9% |
| Power Factor (cos φ) | 50% load | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 |
| | 75% load | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 |
| | 100% load | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |

OTHER DETAILS

| | | | |
|--|-----------------------------|-----------------------|--------------|
| Bearing Configuration (DE / NDE) | Ball Bearing / Ball Bearing | | |
| Bearing Lubrication Type | Grease - Mobil Polyrex EM | | |
| Bearing Series Type | DE: | 6309/C3 | NDE: 6309/C3 |
| Vibration | 2.2 mm/sec | Direction of Rotation | CW or CCW |
| Moment of inertia (kg.m ²) | 0.0722 | Sound Pressure Level | 87 dB(A) |
| Final Colour | RAL-5012 : BLUE | Paint Specification | 2 Pack Epoxy |
| Terminal Box Position | TOP/SIDE | Weight | 154 kg |



| | | | |
|-----------------|-----------|--------------------------|--|
| Drawing Title: | | Description: OMT3 Type-1 | |
| Outline Drawing | | Motor Frame: 160M | |
| Sheet No. | Dim. Size | Scale | |
| 1 OF 1 | mm A3 | 1:5 | |

IP55-Cast Iron B3 MOTORS

OMEC NORTH AMERICA INC.



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|----------|-------------|-------------|------|
| Drawn By | Date | Approved By | Rev. |
| A.J.B. | 15.Jan.2025 | ----- | 00 |

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Performance Curves

kW: 15 RPM: 2945

IE3 GENERAL PURPOSE MOTORS- OMT 400V 50Hz

