



OMEC NORTH AMERICA INC

CAST IRON - GENERAL PURPOSE MOTORS

PRODUCT FEATURES

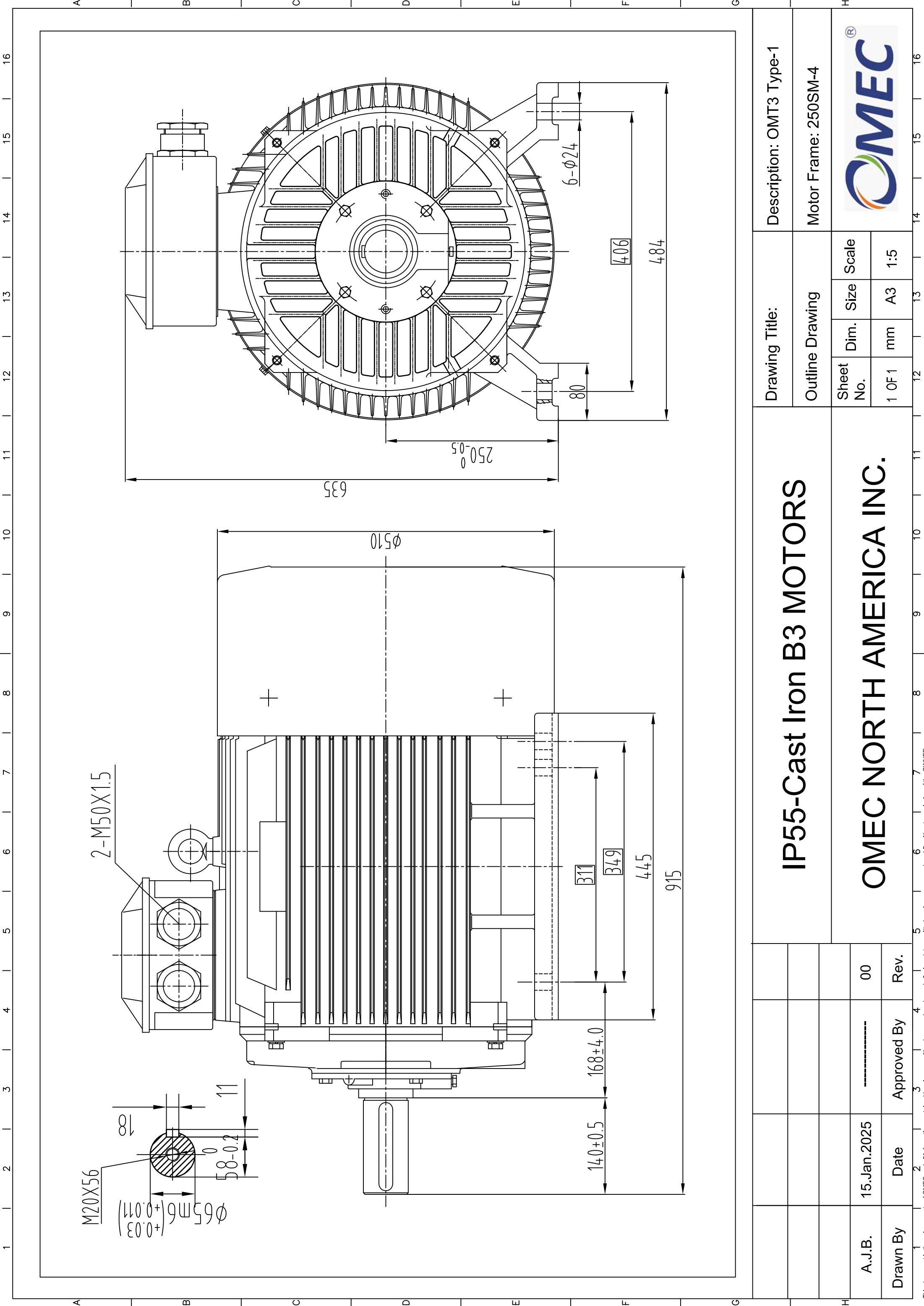
Model Number	OMT3-250SM0-4 55KW		
Standard	IEC 60034-1	Output	55.00 KW
Hazardous Classification	None (Safe Area)	No of Poles	4 Pole
Efficiency Class	IE3	Frame Size	250SM
Number of Phases	3 Phase- Induction	Mounting Type	B3; B35, B5, V1
Material of Construction	Cast Iron	Enclosure Type / Cooling	TEFC-IC411
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	1485 Rpm			1780 Rpm			
Voltage	380	400	415	380	400	440	460
Full Load Current [IN]	102.72 A	97.58 A	94.05 A	102.72 A	97.58 A	88.71 A	84.85 A
Locked Rotor Current [IL / IN]	7.4	7.4	7.4	7.4	7.4	7.4	7.4
Full Load Torque [TN]	353.70 Nm	353.70 Nm	353.70 Nm	295.08 Nm	295.08 Nm	295.08 Nm	295.08 Nm
Locked Rotor Torque [TL / TN]	2.2	2.2	2.2	2.6	2.6	2.6	2.6
Breakdown Torque [TB / TN]	2.3	2.3	2.3	2.8	2.8	2.8	2.8
Efficiency	50% load	94.0%	94.0%	94.0%	94.0%	94.0%	94.0%
	75% load	94.5%	94.5%	94.5%	94.5%	94.5%	94.5%
	100% load	94.6%	94.6%	94.6%	94.6%	94.6%	94.6%
Power Factor (cos φ)	50% load	0.74	0.74	0.74	0.74	0.74	0.74
	75% load	0.83	0.83	0.83	0.83	0.83	0.83
	100% load	0.86	0.86	0.86	0.86	0.86	0.86

OTHER DETAILS

Bearing Configuration (DE / NDE)	Ball Bearing / Ball Bearing		
Bearing Lubrication Type	Grease - ESSO UNIREX N2		
Bearing Series Type	DE:	6315/C3	NDE: 6314/C3
Vibration	2.2 mm/sec	Direction of Rotation	CW or CCW
Moment of inertia (kg.m ²)	0.9861	Sound Pressure Level	85 dB(A)
Final Colour	RAL-5012 : BLUE	Paint Specification	2 Pack Epoxy
Terminal Box Position	TOP/SIDE	Weight	450 kg



Drawing Title:		Description: OMT3 Type-1	
Outline Drawing		Motor Frame: 250SM-4	
Sheet No.	Dim. Size	Scale	
1 OF 1	mm A3	1:5	



IP55-Cast Iron B3 MOTORS

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

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Performance Curves

kW: 55 RPM: 1485

IE3 GENERAL PURPOSE MOTORS- OMT 400V 50Hz

