



# OMEC NORTH AMERICA INC

CAST IRON - GENERAL PURPOSE MOTORS

## PRODUCT FEATURES

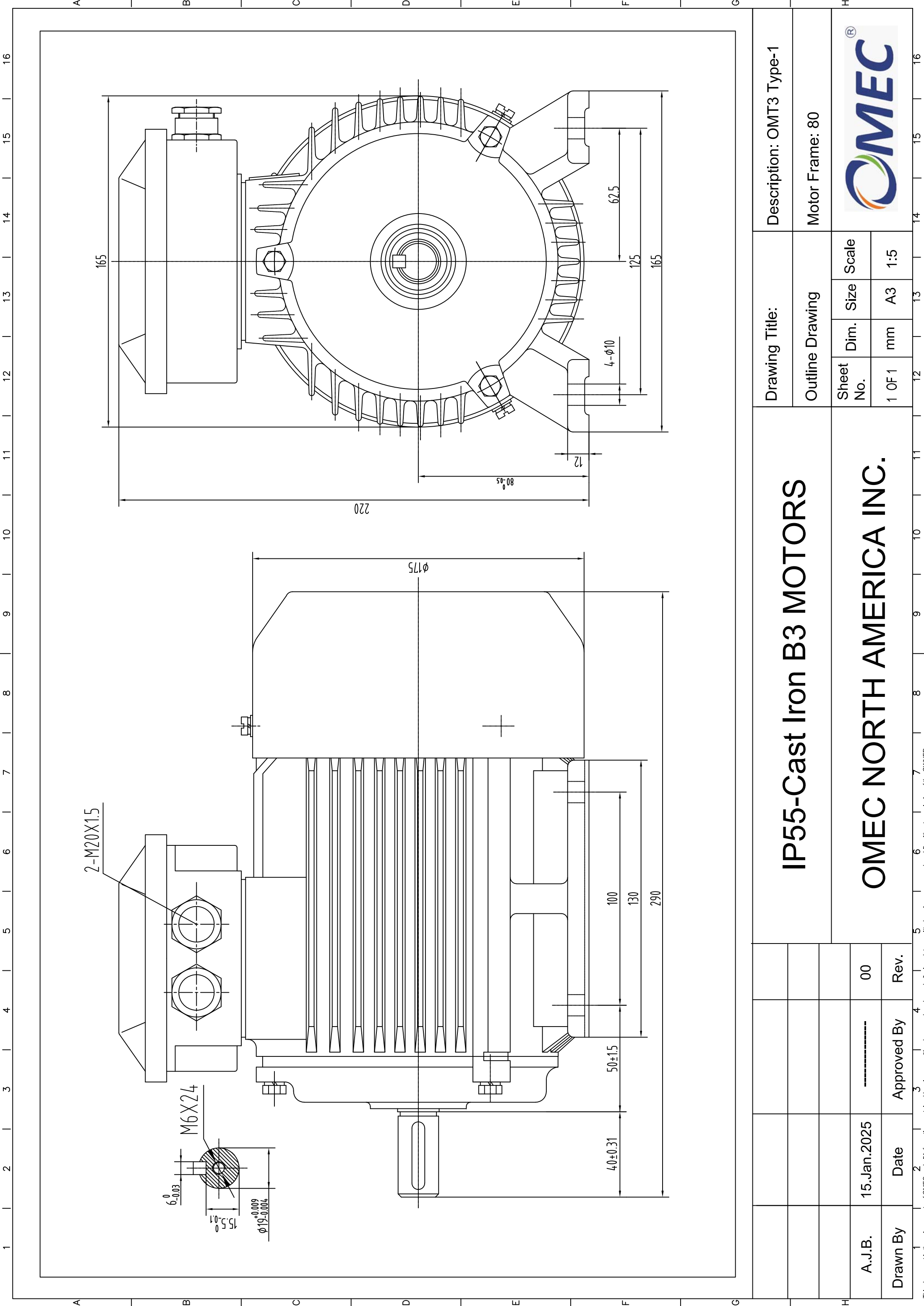
Model Number	OMT3-80M00-2 0.55KW		
Standard	IEC 60034-1	Output	0.55 KW
Hazardous Classification	None (Safe Area)	No of Poles	2 Pole
Efficiency Class	IE3	Frame Size	80M
Number of Phases	3 Phase- Induction	Mounting Type	B3; B35, B14, B5, V1
Material of Construction	Cast Iron	Enclosure Type / Cooling	TEFC-IC411
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	Y (Star)						
Frequency	50Hz			60Hz			
Rated Speed	2870 Rpm			3440 Rpm			
Voltage	380	400	415	380	400	440	460
Full Load Current [ IN ]	1.26 A	1.20 A	1.16 A	1.26 A	1.20 A	1.09 A	1.04 A
Locked Rotor Current [ IL / IN ]	8.9	8.9	8.9	8.9	8.9	8.9	8.9
Full Load Torque [ TN ]	1.83 Nm	1.83 Nm	1.83 Nm	1.53 Nm	1.53 Nm	1.53 Nm	1.53 Nm
Locked Rotor Torque [ TL / TN ]	3.1	3.1	3.1	3.8	3.8	3.8	3.8
Breakdown Torque [ TB / TN ]	3.1	3.1	3.1	3.8	3.8	3.8	3.8
Efficiency	50% load	78.8%	78.8%	78.8%	78.8%	78.8%	78.8%
	75% load	80.5%	80.5%	80.5%	80.5%	80.5%	80.5%
	100% load	80.7%	80.7%	80.7%	80.7%	80.7%	80.7%
Power Factor (cos φ)	50% load	0.65	0.65	0.65	0.65	0.65	0.65
	75% load	0.76	0.76	0.76	0.76	0.76	0.76
	100% load	0.82	0.82	0.82	0.82	0.82	0.82

## OTHER DETAILS

Bearing Configuration (DE / NDE)	Ball Bearing / Ball Bearing		
Bearing Lubrication Type	Grease - Mobil Polyrex EM		
Bearing Series Type	DE:	6204-2Z/C3	NDE: 6204-2Z/C3
Vibration	1.6 mm/sec	Direction of Rotation	CW or CCW
Moment of inertia (kg.m <sup>2</sup> )	0.0011	Sound Pressure Level	67 dB(A)
Final Colour	RAL-5012 : BLUE	Paint Specification	2 Pack Epoxy
Terminal Box Position	TOP/SIDE	Weight	18 kg



Drawing Title:		Description: OMT3 Type-1	
Outline Drawing		Motor Frame: 80	
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: 0.55 RPM: 2870

IE3 GENERAL PURPOSE MOTORS- OMT 400V 50Hz

