



# OMEC NORTH AMERICA INC

CAST IRON - GENERAL PURPOSE MOTORS

## PRODUCT FEATURES

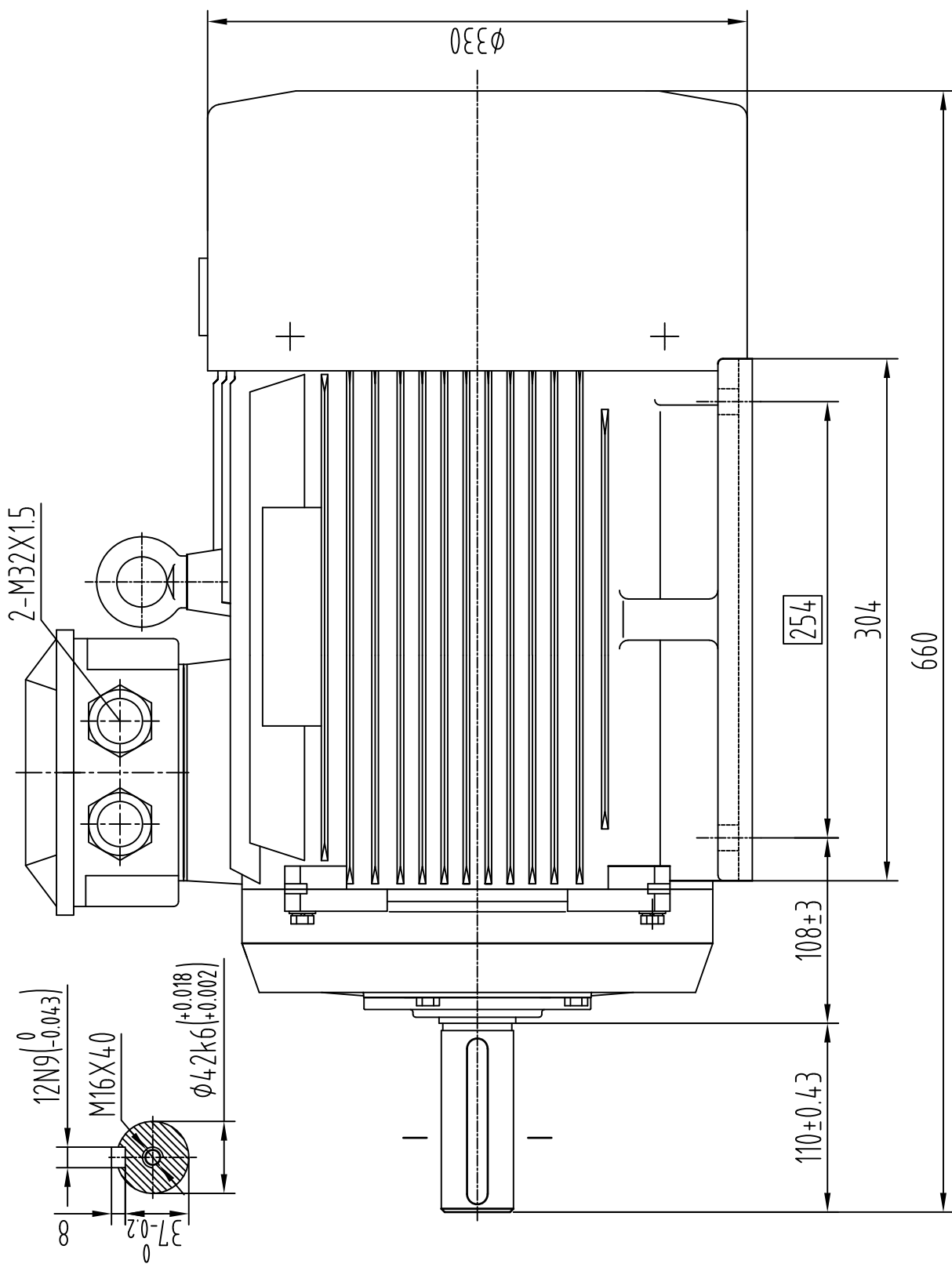
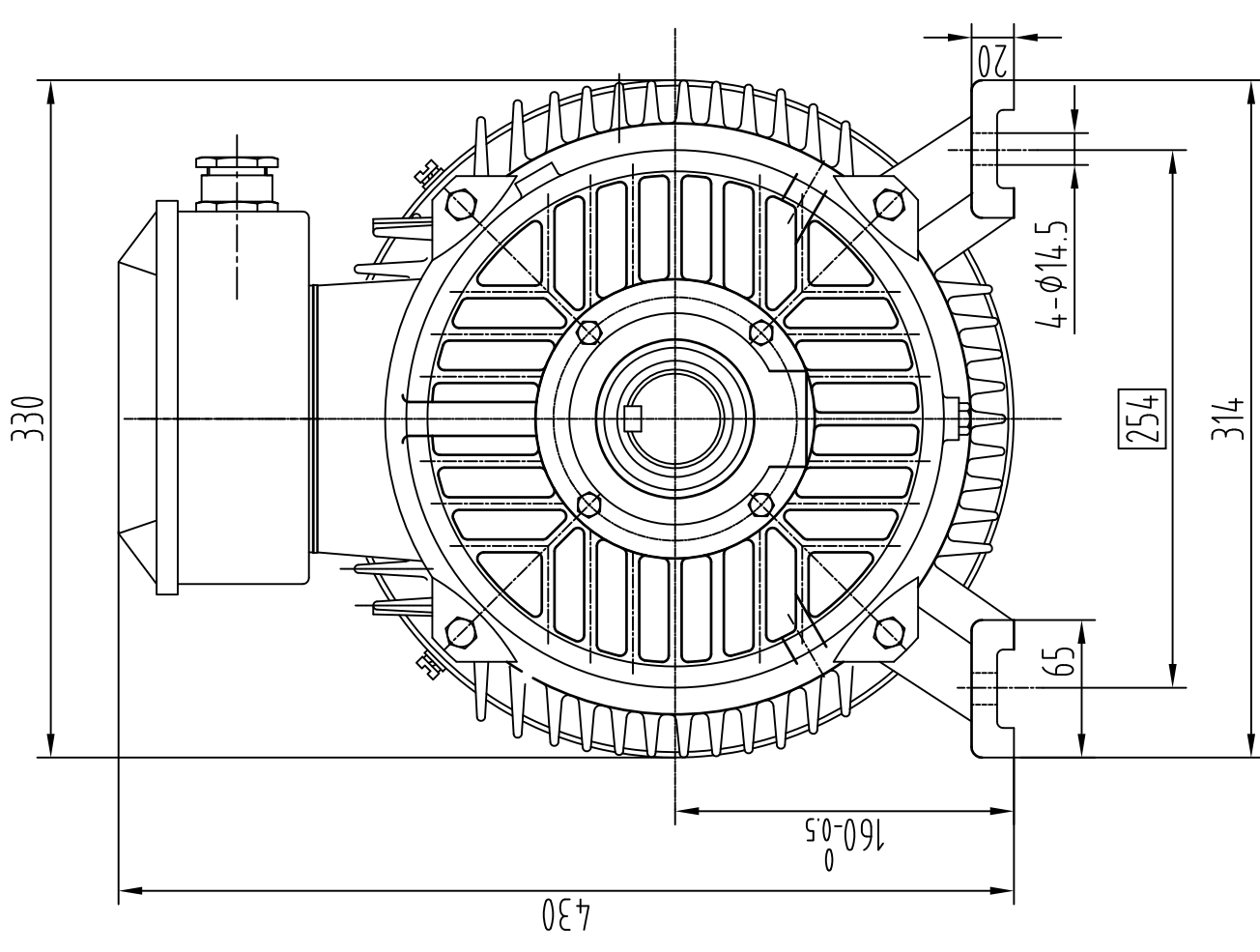
Model Number	OMT3-160L00-4 15KW		
Standard	IEC 60034-1	Output	15.00 KW
Hazardous Classification	None (Safe Area)	No of Poles	4 Pole
Efficiency Class	IE3	Frame Size	160L
Number of Phases	3 Phase- Induction	Mounting Type	B3; B35, B14, B5, V1
Material of Construction	Cast Iron	Enclosure Type / Cooling	TEFC-IC411
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	1470 Rpm			1760 Rpm			
Voltage	380	400	415	380	400	440	460
Full Load Current [ IN ]	28.77 A	27.34 A	26.35 A	28.77 A	27.34 A	24.85 A	23.77 A
Locked Rotor Current [ IL / IN ]	7.8	7.8	7.8	7.8	7.8	7.8	7.8
Full Load Torque [ TN ]	97.45 Nm	97.45 Nm	97.45 Nm	81.39 Nm	81.39 Nm	81.39 Nm	81.39 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	90.6%	90.6%	90.6%	90.6%	90.6%	90.6%
	75% load	92.0%	92.0%	92.0%	92.0%	92.0%	92.0%
	100% load	92.1%	92.1%	92.1%	92.1%	92.1%	92.1%
Power Factor (cos φ)	50% load	0.73	0.73	0.73	0.73	0.73	0.73
	75% load	0.81	0.81	0.81	0.81	0.81	0.81
	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:	6309/C3	NDE: 6309/C3
Vibration	2.2 mm/sec	Direction of Rotation	CW or CCW
Moment of inertia (kg.m <sup>2</sup> )	0.1352	Sound Pressure Level	77 dB(A)
Final Colour	RAL-5012 : BLUE	Paint Specification	2 Pack Epoxy
Terminal Box Position	TOP/SIDE	Weight	150 kg



Description: OMT3 Type-1

Motor Frame: 160L



Drawing Title:

Outline Drawing

Sheet No.	Dim. mm	Size	Scale
1 OF 1	mm	A3	1:5

# IP55-Cast Iron B3 MOTORS

## OMEC NORTH AMERICA INC.

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



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## Performance Curves

kW: 15 RPM: 1470

IE3 GENERAL PURPOSE MOTORS- OMT 400V 50Hz

