



OMEC NORTH AMERICA INC

CAST IRON - GENERAL PURPOSE MOTORS

PRODUCT FEATURES

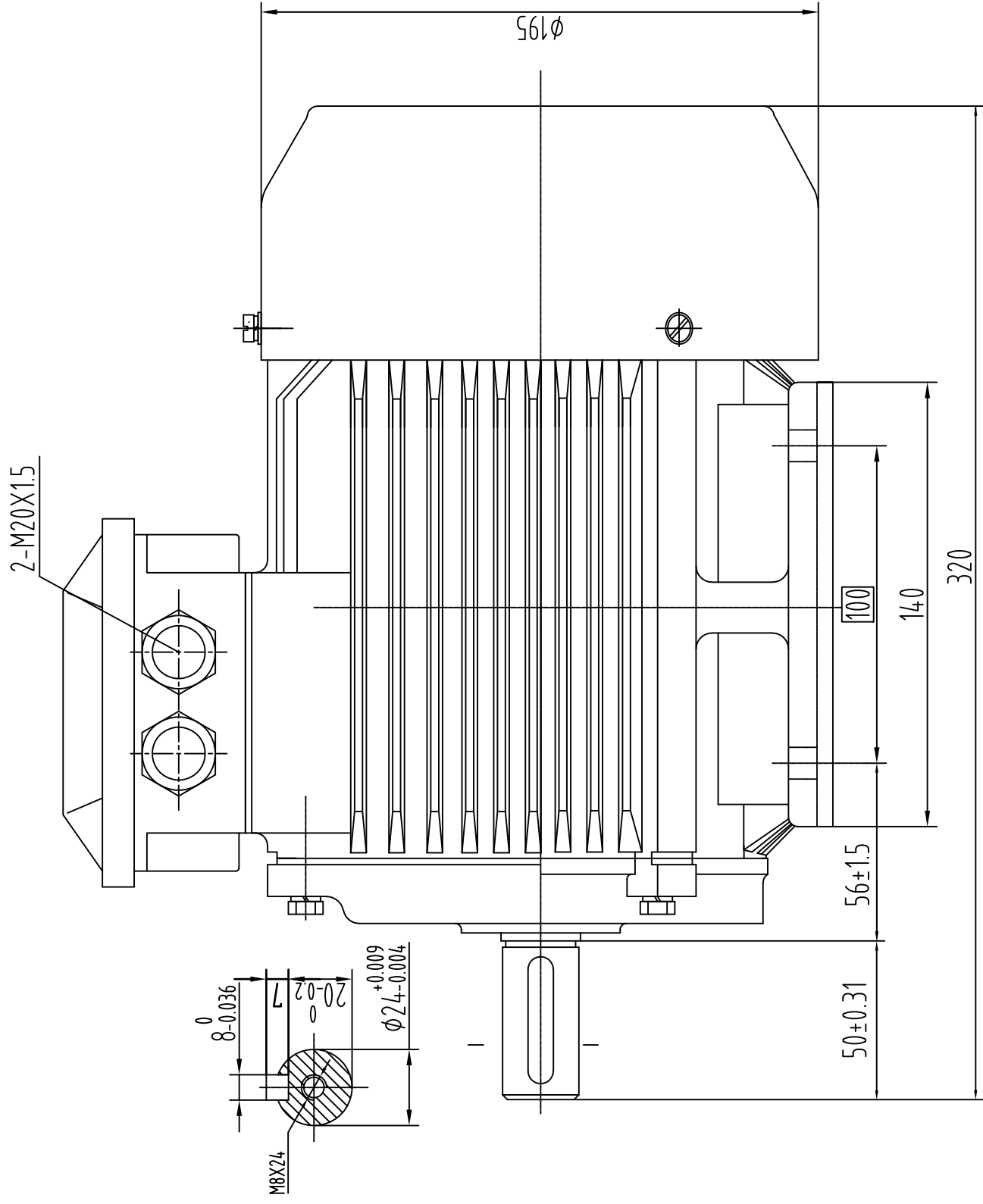
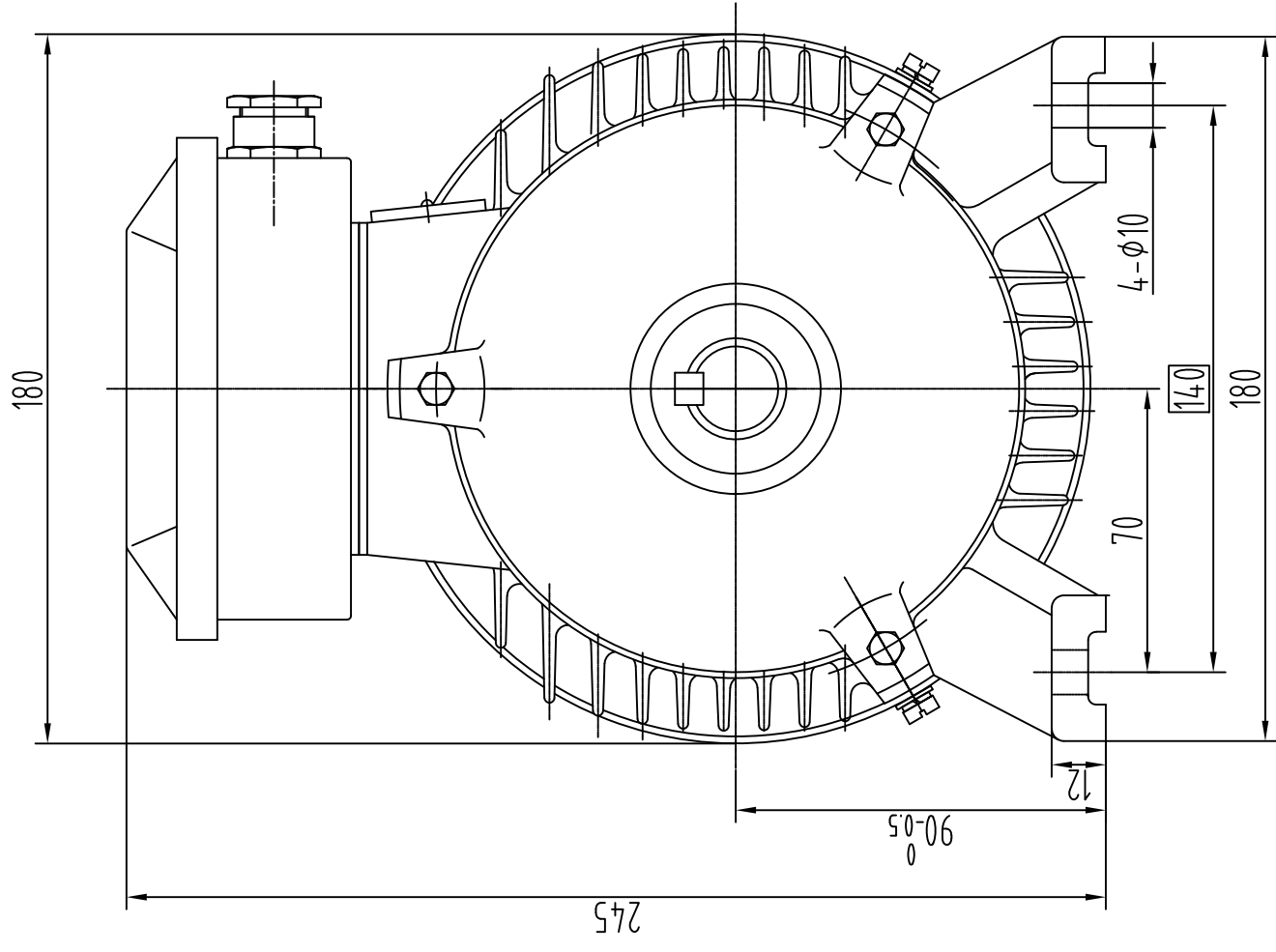
Model Number	OMT3-90S00-4 1.1KW		
Standard	IEC 60034-1	Output	1.10 KW
Hazardous Classification	None (Safe Area)	No of Poles	4 Pole
Efficiency Class	IE3	Frame Size	90S
Number of Phases	3 Phase- Induction	Mounting Type	B3; B35, B14, B5, V1
Material of Construction	Cast Iron	Enclosure Type / Cooling	TEFC-IC411
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	1430 Rpm			1715 Rpm			
Voltage	380	400	415	380	400	440	460
Full Load Current [IN]	2.65 A	2.52 A	2.43 A	2.65 A	2.52 A	2.29 A	2.19 A
Locked Rotor Current [IL / IN]	6.8	6.8	6.8	6.8	6.8	6.8	6.8
Full Load Torque [TN]	7.35 Nm	7.35 Nm	7.35 Nm	6.13 Nm	6.13 Nm	6.13 Nm	6.13 Nm
Locked Rotor Torque [TL / TN]	2.3	2.3	2.3	2.8	2.8	2.8	2.8
Breakdown Torque [TB / TN]	2.3	2.3	2.3	2.8	2.8	2.8	2.8
Efficiency	50% load	81.5%	81.5%	81.5%	81.5%	81.5%	81.5%
	75% load	83.9%	83.9%	83.9%	83.9%	83.9%	83.9%
	100% load	84.1%	84.1%	84.1%	84.1%	84.1%	84.1%
Power Factor (cos φ)	50% load	0.53	0.53	0.53	0.53	0.53	0.53
	75% load	0.69	0.69	0.69	0.69	0.69	0.69
	100% load	0.75	0.75	0.75	0.75	0.75	0.75

OTHER DETAILS

Bearing Configuration (DE / NDE)	Ball Bearing / Ball Bearing		
Bearing Lubrication Type	Grease - ESSO UNIREX N2		
Bearing Series Type	DE:	6205-2Z/C3	NDE: 6205-2Z/C3
Vibration	1.6 mm/sec	Direction of Rotation	CW or CCW
Moment of inertia (kg.m ²)	0.0040	Sound Pressure Level	66 dB(A)
Final Colour	RAL-5012 : BLUE	Paint Specification	2 Pack Epoxy
Terminal Box Position	TOP/SIDE	Weight	25 kg



Drawing Title: OMT3 Type-1

Motor Frame: 90S



Outline Drawing	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: 1.1 RPM: 1430

IE3 GENERAL PURPOSE MOTORS- OMT 400V 50Hz

