



OMEC NORTH AMERICA INC

ALUMINIUM - GENERAL PURPOSE MOTORS

PRODUCT FEATURES

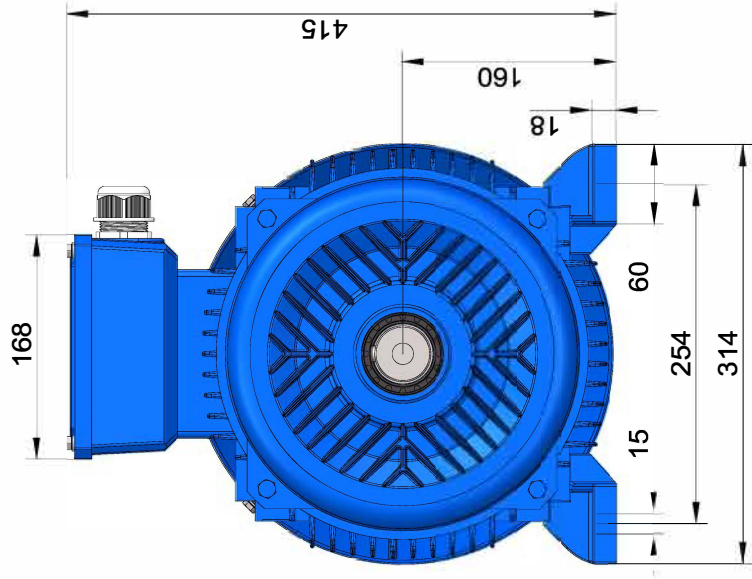
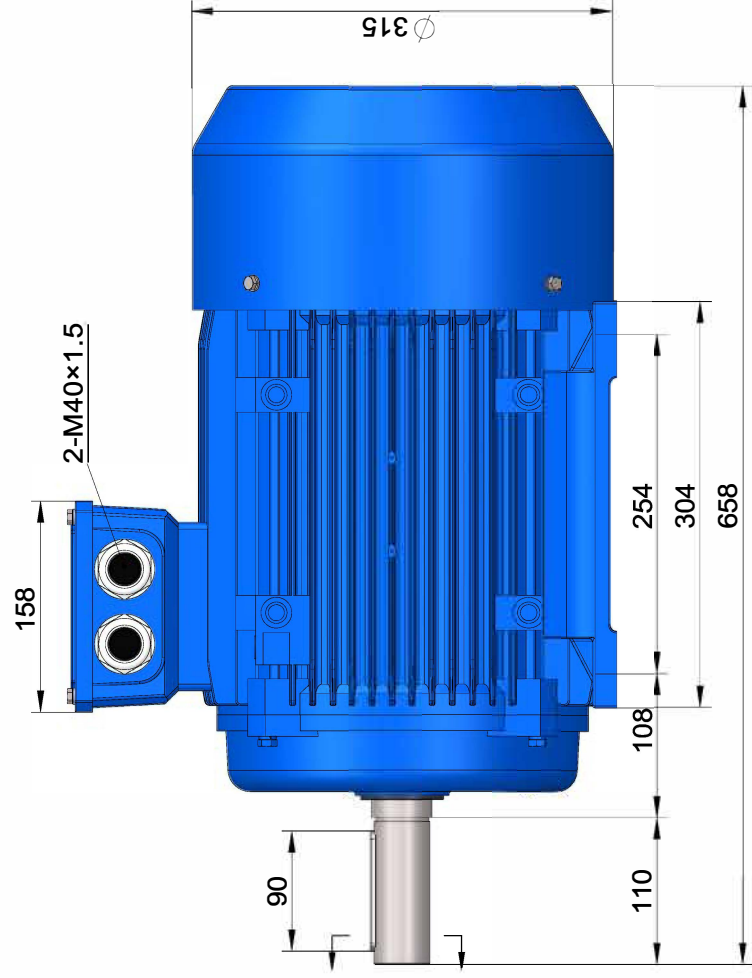
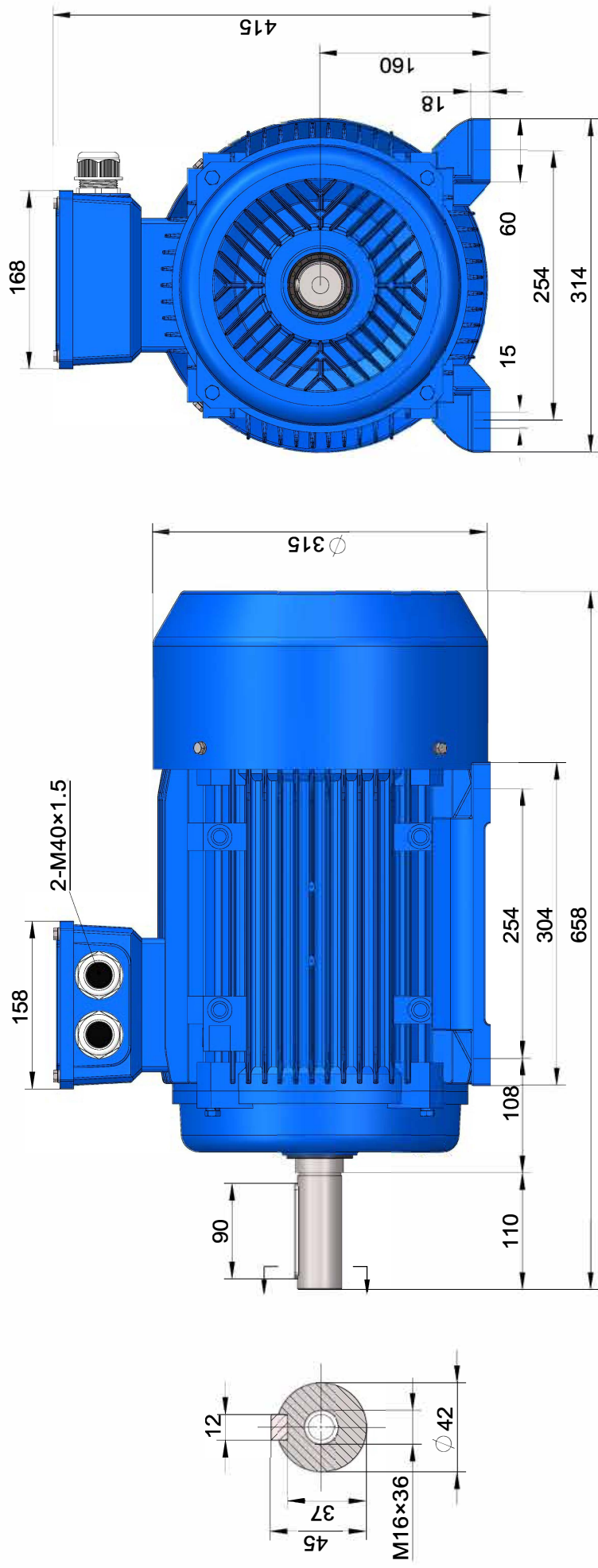
Model Number	OMT4-160L00-4 15KW		
Standard	IEC 60034-1	Output	15.00 KW
Hazardous Classification	None (Safe Area)	No of Poles	4 Pole
Efficiency Class	IE3	Frame Size	160L
Number of Phases	3 Phase- Induction	Mounting Type	B3; B35, B14, B5, V1
Material of Construction	Aluminium	Enclosure Type / Cooling	TEFC-IC411
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 ²)	0.1352	Sound Pressure Level	77 dB(A)
Final Colour	RAL-7031 : BLUE GREY	Paint Specification	2 Pack Epoxy
Terminal Box Position	TOP/SIDE	Weight	100 kg

The QMEC logo is located in the bottom right corner. It features a stylized 'Q' composed of three overlapping curved segments in blue, green, and orange. To the right of the 'Q' is the text 'MEC' in a bold, blue, sans-serif font. A registered trademark symbol (®) is positioned at the top right of the 'Q'.



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Performance Curves

kW: 15 RPM: 1470

IE3 GENERAL PURPOSE MOTORS- **OMT** 400V 50Hz

