



OMEC NORTH AMERICA INC

ALUMINIUM - GENERAL PURPOSE MOTORS

PRODUCT FEATURES

Model Number	OMT4-100L00-4 3KW		
Standard	IEC 60034-1	Output	3.00 KW
Hazardous Classification	None (Safe Area)	No of Poles	4 Pole
Efficiency Class	IE3	Frame Size	100L
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

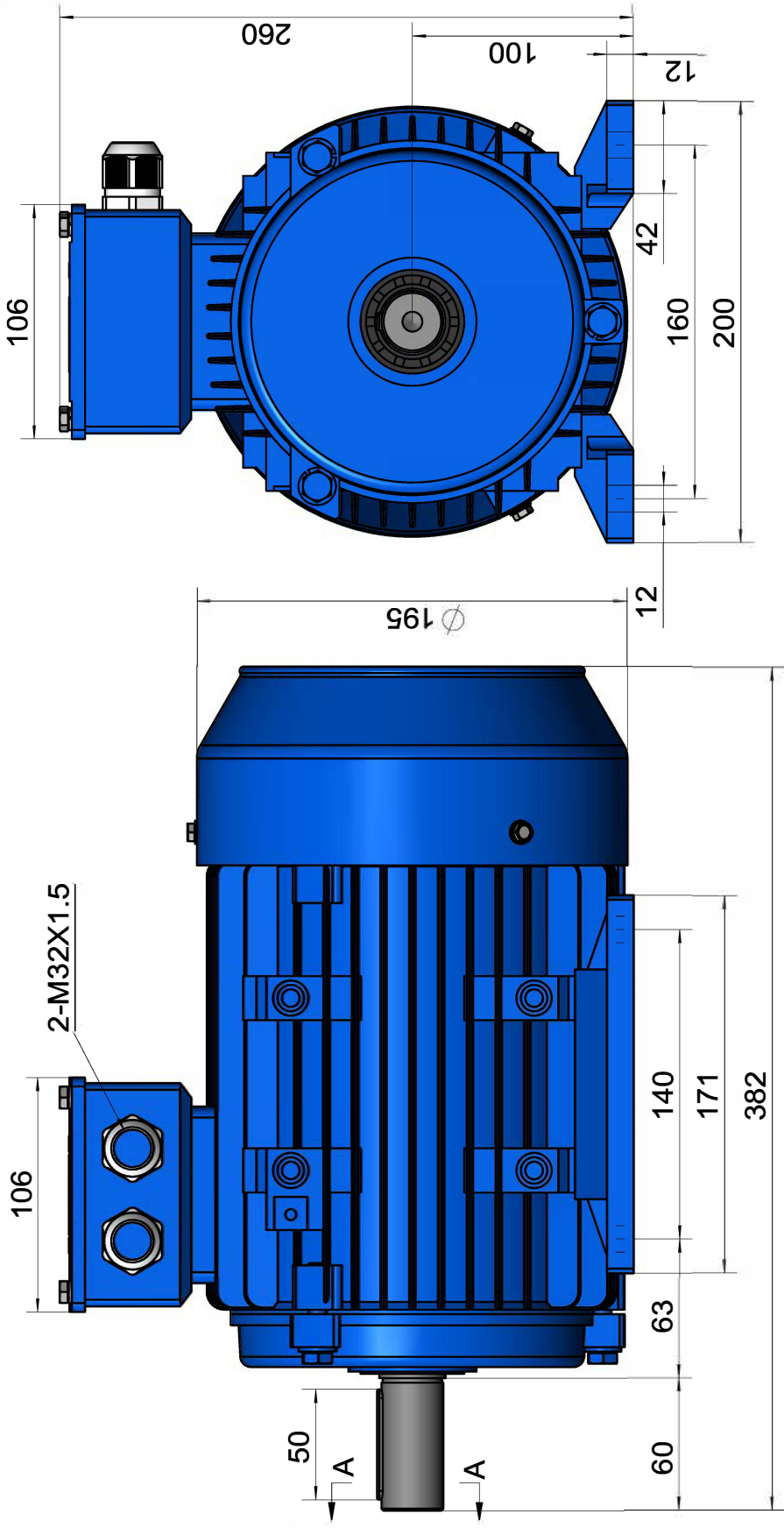
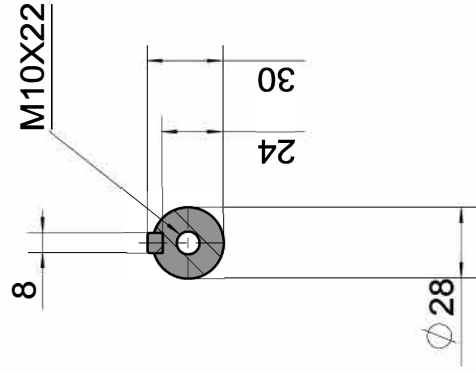
TECHNICAL DETAILS

Winding Connection	Y (Star)						
Frequency	50Hz			60Hz			
Rated Speed	1440 Rpm			1725 Rpm			
Voltage	380	400	415	380	400	440	460
Full Load Current [IN]	6.42 A	6.10 A	5.88 A	6.42 A	6.10 A	5.54 A	5.30 A
Locked Rotor Current [IL / IN]	7.6	7.6	7.6	7.6	7.6	7.6	7.6
Full Load Torque [TN]	19.90 Nm	19.90 Nm	19.90 Nm	16.61 Nm	16.61 Nm	16.61 Nm	16.61 Nm
Locked Rotor Torque [TL / TN]	2.3	2.3	2.3	2.8	2.8	2.8	2.8
Breakdown Torque [TB / TN]	3.0	3.0	3.0	3.6	3.6	3.6	3.6
Efficiency	50% load	85.6%	85.6%	85.6%	85.6%	85.6%	85.6%
	75% load	87.6%	87.6%	87.6%	87.6%	87.6%	87.6%
	100% load	87.7%	87.7%	87.7%	87.7%	87.7%	87.7%
Power Factor (cos φ)	50% load	0.58	0.58	0.58	0.58	0.58	0.58
	75% load	0.73	0.73	0.73	0.73	0.73	0.73
	100% load	0.81	0.81	0.81	0.81	0.81	0.81

OTHER DETAILS

Bearing Configuration (DE / NDE)	Ball Bearing / Ball Bearing		
Bearing Lubrication Type	Grease - ESSO UNIREX N2		
Bearing Series Type	DE:	6206-2Z/C3	NDE: 6206-2Z/C3
Vibration	1.6 mm/sec	Direction of Rotation	CW or CCW
Moment of inertia (kg.m ²)	0.0131	Sound Pressure Level	70 dB(A)
Final Colour	RAL-7031 : BLUE GREY	Paint Specification	2 Pack Epoxy
Terminal Box Position	TOP/SIDE	Weight	25 kg

A-A
1:3





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Performance Curves

kW: 3 RPM: 1440

IE3 GENERAL PURPOSE MOTORS- OMT 400V 50Hz

