



OMEC NORTH AMERICA INC

ALUMINIUM - GENERAL PURPOSE MOTORS

PRODUCT FEATURES

Model Number	OMT4-160M00-2 15KW		
Standard	IEC 60034-1	Output	15.00 KW
Hazardous Classification	None (Safe Area)	No of Poles	2 Pole
Efficiency Class	IE3	Frame Size	160M
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	2945 Rpm			3530 Rpm			
Voltage	380	400	415	380	400	440	460
Full Load Current [IN]	27.86 A	26.47 A	25.51 A	27.86 A	26.47 A	24.06 A	23.02 A
Locked Rotor Current [IL / IN]	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Full Load Torque [TN]	48.64 Nm	48.64 Nm	48.64 Nm	40.58 Nm	40.58 Nm	40.58 Nm	40.58 Nm
Locked Rotor Torque [TL / TN]	2.0	2.0	2.0	2.4	2.4	2.4	2.4
Breakdown Torque [TB / TN]	2.3	2.3	2.3	2.8	2.8	2.8	2.8
Efficiency	50% load	90.4%	90.4%	90.4%	90.4%	90.4%	90.4%
	75% load	91.8%	91.8%	91.8%	91.8%	91.8%	91.8%
	100% load	91.9%	91.9%	91.9%	91.9%	91.9%	91.9%
Power Factor (cos ϕ)	50% load	0.72	0.72	0.72	0.72	0.72	0.72
	75% load	0.86	0.86	0.86	0.86	0.86	0.86
	100% load	0.89	0.89	0.89	0.89	0.89	0.89

OTHER DETAILS

Bearing Configuration (DE / NDE)	Ball Bearing / Ball Bearing		
Bearing Lubrication Type	Grease - Mobil Polyrex EM		
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)	0.0722	Sound Pressure Level	87 dB(A)
Final Colour	RAL-7031 : BLUE GREY	Paint Specification	2 Pack Epoxy
Terminal Box Position	TOP/SIDE	Weight	90 kg



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Performance Curves

kW: 15 RPM: 2945

IE3 GENERAL PURPOSE MOTORS- OMT 400V 50Hz

