



OMEC NORTH AMERICA INC

ALUMINIUM - GENERAL PURPOSE MOTORS

PRODUCT FEATURES

Model Number	OMT4-160M00-4 9.2KW		
Standard	IEC 60034-1	Output	9.20 KW
Hazardous Classification	None (Safe Area)	No of Poles	4 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	1470 Rpm			1760 Rpm			
Voltage	380	400	415	380	400	440	460
Full Load Current [IN]	17.99 A	17.09 A	16.47 A	17.99 A	17.09 A	15.54 A	14.86 A
Locked Rotor Current [IL / IN]	9.2	9.2	9.2	9.2	9.2	9.2	9.2
Full Load Torque [TN]	59.77 Nm	59.77 Nm	59.77 Nm	49.92 Nm	49.92 Nm	49.92 Nm	49.92 Nm
Locked Rotor Torque [TL / TN]	2.6	2.6	2.6	3.1	3.1	3.1	3.1
Breakdown Torque [TB / TN]	2.8	2.8	2.8	3.3	3.3	3.3	3.3
Efficiency	50% load	90.3%	90.3%	90.3%	90.3%	90.3%	90.3%
	75% load	91.3%	91.3%	91.3%	91.3%	91.3%	91.3%
	100% load	91.4%	91.4%	91.4%	91.4%	91.4%	91.4%
Power Factor (cos ϕ)	50% load	0.61	0.61	0.61	0.61	0.61	0.61
	75% load	0.79	0.79	0.79	0.79	0.79	0.79
	100% load	0.85	0.85	0.85	0.85	0.85	0.85

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	1.6 mm/sec	Direction of Rotation	CW or CCW
Moment of inertia (kg.m ²)	0.1062	Sound Pressure Level	77 dB(A)
Final Colour	RAL-7031 : BLUE GREY	Paint Specification	2 Pack Epoxy
Terminal Box Position	TOP/SIDE	Weight	86 kg



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Performance Curves

kW: 9.2 RPM: 1470

IE3 GENERAL PURPOSE MOTORS- OMT 400V 50Hz

