



OMEC NORTH AMERICA INC

CAST IRON - GENERAL PURPOSE MOTORS

PRODUCT FEATURES

Model Number	OMT3-225M00-2 45KW		
Standard	IEC 60034-1	Output	45.00 KW
Hazardous Classification	None (Safe Area)	No of Poles	2 Pole
Efficiency Class	IE3	Frame Size	225M
Number of Phases	3 Phase- Induction	Mounting Type	B3; B35, 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	Δ (Delta)						
Frequency	50Hz			60Hz			
Rated Speed	2965 Rpm			3555 Rpm			
Voltage	380	400	415	380	400	440	460
Full Load Current [IN]	80.82 A	76.78 A	74.00 A	80.82 A	76.78 A	69.80 A	66.76 A
Locked Rotor Current [IL / IN]	7.7	7.7	7.7	7.7	7.7	7.7	7.7
Full Load Torque [TN]	144.94 Nm	144.94 Nm	144.94 Nm	120.89 Nm	120.89 Nm	120.89 Nm	120.89 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	92.9%	92.9%	92.9%	92.9%	92.9%	92.9%
	75% load	93.9%	93.9%	93.9%	93.9%	93.9%	93.9%
	100% load	94.0%	94.0%	94.0%	94.0%	94.0%	94.0%
Power Factor (cos φ)	50% load	0.81	0.81	0.81	0.81	0.81	0.81
	75% load	0.87	0.87	0.87	0.87	0.87	0.87
	100% load	0.90	0.90	0.90	0.90	0.90	0.90

OTHER DETAILS

Bearing Configuration (DE / NDE)	Ball Bearing / Ball Bearing		
Bearing Lubrication Type	Grease - Mobil Polyrex EM		
Bearing Series Type	DE:	6313/C3	NDE: 6312/C3
Vibration	2.2 mm/sec	Direction of Rotation	CW or CCW
Moment of inertia (kg.m ²)	0.3297	Sound Pressure Level	92 dB(A)
Final Colour	RAL-5012 : BLUE	Paint Specification	2 Pack Epoxy
Terminal Box Position	TOP/SIDE	Weight	330 kg



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Performance Curves

kW: 45 RPM: 2965

IE3 GENERAL PURPOSE MOTORS- OMT 400V 50Hz

