



OMEC NORTH AMERICA INC

UL LISTED VERTICAL HOLLOW SHAFT MOTORS

PRODUCT FEATURES

Model Number	-		
Standard	NEMA MG-1	Output	100HP / 75KW
Hazardous Classification	None (Safe Area)	No of Poles	4P
Efficiency Class	NEMA HIGH (IE2)	Frame Size	404TP
Number of Phases	3 Phase- Induction	Type	VERTICAL HOLLOW SHAFT
Material of Construction	Cast Iron	Enclosure Type / Cooling	WP1 / IC01
Insulation Class	Class F	Degree of Protection	IP23
Temperature Rise Class	80K (B class)	Duty Cycle	S1- Continuous Duty
Ambient Temperature	-15°C ~ 50°C	Service Factor	SF 1.15
Starting Method	PWS or YD	Operating Altitude	1000 masl & <95% RH

TECHNICAL DETAILS

Winding Connection	Δ (Delta)						
KVA Code	CODE H						
Nema Design	DES B						
Frequency	50Hz			60Hz			
Rated Speed	1480 Rpm			1780 Rpm			
Voltage	380	400	415	380	400	440	460
Full Load Current [IN]	140.70 A	133.67 A	128.83 A	140.70 A	133.67 A	121.51 A	116.23 A
Locked Rotor Current [IL / IN]	6.5	6.5	6.5	6.5	6.5	6.5	6.5
I max [Less than or Equal]	913.00 A	867.35 A	836.00 A	913.00 A	867.35 A	788.50 A	754.22 A
Starting Torque [Tst]	140%	140%	140%	140%	140%	140%	140%
Breakdown Torque [Tmax]	200%	200%	200%	200%	200%	200%	200%
Efficiency	100% load	93.3%	93.3%	93.3%	93.3%	93.3%	93.3%
Power Factor (cos φ)	100% load	0.87	0.87	0.87	0.87	0.87	0.87

OTHER DETAILS

Bearing Configuration (DE / NDE)	Angular Contact Ball Bearing/Guide Ball Bearing		
Bearing Lubrication Type	DE:	ISO-32 Oil	NDE: Grease
Bearing Series Type	DE:	7230B	NDE: 6317
Coupling Size	As per Drawings	Direction of Rotation	CW from DE
Final Colour	RAL 3002- RED	Paint Specification	2 Pack Epoxy
Downthrust	6700 LBS	Mounting Option	P-BASE



VERTICAL HOLLOW SHAFT MOTORS WEATHER PROTECTED TYPE 1

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100HP(404TP)

Model No.	Frame	Mounting Dimensions(inch)												Overall Dimensions(inch)			Bearings			Weight (L/B)
		BD	AJ	AK	BV	AF	BF	BX	BZ	EW	BY	CD	EO>	P	AB	AC	AG	Drive End	Opposite DriveEnd	
100HP	404TP	16.5	14.75	13.5	19.3	6	0.69	1.5	2.13	0.375	1/4-20	36.94	4.89	21	17.13	13.16	42.5	7230 B	6317	1445

Model No.	Frame	Mounting Dimensions(inch)							
		BX				BD			
100HP	404TP	1.188	1.25	1.5	1.69			16.5	

