marathon™

DataSheet

MV or HV Squirrel Cage Induction Electric Motor

Standard	IEC
Execution	"Standard Line" motor
Area	Safe Area
Type	HCM 5003-2 (HE) (Higher Efficiency)
Poles	2 pole
Environment conditions	-20℃ to +40℃, up to 1000 m above sea level
Frame size	500
Material	Cast Iron
Output	1000 kW (1340 HP)
Voltage	6kV 50Hz
Speed	2982 rpm
Rated Current	113.6 A
Torque	3203. Nm

	100% Load	75% Load	50% Load
Efficiency	96.30%	95.70%	93.90%
Power factor (cos fi)	0.88		
Starting current [ratio]	7		
Starting torque [ratio]	0.7		
Breakdown torque [ratio]	2		

Insulation class	F (155℃) / temperature rise B (80K)
Cooling	IC411
Protection	IP55
Permissible number of consecutive starts	2/3 [hot/cold]
Stator connection	Y -Star
Winding neutral point	Internal connection
Terminal box position (looking at DE)	On right hand side
Terminal box material	Fabricated steel
Terminal Box Type of construction	Standard 3 terminal T Box
Terminal Box Degree of protection	IP55
Weight	6320. kg
Mounting	B3
Thermal Protection	6x PT100s in winding; 1x PT100 in each bearing
Motor Inertia	21 kgm^2
Acoustic Pressure	99.dB(A) (at 50Hz speed)

This DataSheet has been issued for "Standard Line" motor execution. - Custom Motors can be derived from this execution.

Technical data and the execution are subject to change without prior notice.