



Low Voltage 3-Phase Squirrel Cage Induction Motors Datasheet

MOTOR SERIES	TECO MAXe3 Mining High Efficiency Cast Iron Frames to 185KW		
START METHOD			DIRECT ON LINE
KW RATING			30
VOLTAGE		(V)	415
PHASES			3
FREQUENCY		(Hz)	50
NO OF POLES			6
FRAME			225MC
SPEED			
	SYNCHRONOUS	(rpm)	1000
	FULL LOAD	(rpm)	985
CURRENT			
	FULL LOAD	(Amps)	51.7
	LOCKED ROTOR	%	590
TORQUE			
	FULL LOAD TORQUE	(Nm)	290.86
	STARTING TORQUE	%	231
	MINIMUM TORQUE	%	209
	BREAKDOWN TORQUE	%	253
ROTOR INERTIA ($J = GD^2/4$)		(Kgm ²)	0.75575
EFFICIENCY			
	100% LOAD	%	94
	75% LOAD	%	94
	50% LOAD	%	93.5
POWER FACTOR			
	100% LOAD	%	85.5
	75% LOAD	%	82
	50% LOAD	%	75
INSULATION CLASS			F (PREMIUM SD) / H (MINING)
ENCLOSURE TYPE			TEFC
IP RATING			66
WEIGHT OF MOTOR		kgs	390
BEARINGS			
	DRIVE END		6313 C3
	NON DRIVE END		6213 C3
NO LOAD SOUND PRESSURE LEVEL @ 1M		dbA	61
DESIGN STANDARD			AS1359
TEMPERATURE RISE ABOVE AMBIENT			< 80 DEG C