



DATASHEET

Te3 Severe Duty CAST IRON FRAME TO 500KW

MOTOR SERIES	Te3 Severe Duty CAST IRON FRAME TO 500KW	
START METHOD		DIRECT ON LINE
KW RATING		45
VOLTAGE	(V)	415
PHASES		3
FREQUENCY	(Hz)	50
NO OF POLES		8
FRAME		280M-468
SPEED		
SYNCHRONOUS	(rpm)	750
FULL LOAD	(rpm)	742
CURRENT		
FULL LOAD	(Amps)	84.5
LOCKED ROTOR	%	660
TORQUE		
FULL LOAD TORQUE	(Nm)	499
STARTING TORQUE	%	190
MINIMUM TORQUE	%	
BREAKDOWN TORQUE	%	200
ROTOR INERTIA (J = GD²/4)	(Kgm ²)	2.22
EFFICIENCY		
100% LOAD	%	92.3
75% LOAD	%	93.6
50% LOAD	%	92.5
POWER FACTOR		
100% LOAD	%	77
75% LOAD	%	76
50% LOAD	%	66
INSULATION CLASS		H
ENCLOSURE TYPE		TEFC
IP RATING		66
WEIGHT OF MOTOR	kgs	651
BEARINGS		
DRIVE END		6317
NON DRIVE END		6314
NO LOAD SOUND PRESSURE LEVEL @ 1M	dbA	68
DESIGN STANDARD		AS1359
CERTIFICATION		
TEMPERATURE RISE ABOVE AMBIENT		< 80 DEG C