



# DATASHEET

## Te3 CAST IRON FRAME TO 500KW

<b>MOTOR SERIES</b>	Te3 CAST IRON FRAME TO 500KW	
<b>START METHOD</b>		DIRECT ON LINE
<b>KW RATING</b>		45
<b>VOLTAGE</b>	(V)	415
<b>PHASES</b>		3
<b>FREQUENCY</b>	(Hz)	50
<b>NO OF POLES</b>		8
<b>FRAME</b>		280M-468
<b>SPEED</b>		
SYNCHRONOUS	(rpm)	750
FULL LOAD	(rpm)	742
<b>CURRENT</b>		
FULL LOAD	(Amps)	84.5
LOCKED ROTOR	%	660
<b>TORQUE</b>		
FULL LOAD TORQUE	(Nm)	499
STARTING TORQUE	%	190
MINIMUM TORQUE	%	
BREAKDOWN TORQUE	%	200
<b>ROTOR INERTIA (J = GD<sup>2</sup>/4)</b>	(Kgm <sup>2</sup> )	2.22
<b>EFFICIENCY</b>		
100% LOAD	%	92.3
75% LOAD	%	93.6
50% LOAD	%	92.5
<b>POWER FACTOR</b>		
100% LOAD	%	0.77
75% LOAD	%	0.76
50% LOAD	%	0.66
<b>INSULATION CLASS</b>		F
<b>ENCLOSURE TYPE</b>		TEFC
<b>IP RATING</b>		55
<b>WEIGHT OF MOTOR</b>	kgs	651
<b>BEARINGS</b>		
DRIVE END		6317
NON DRIVE END		6314
<b>NO LOAD SOUND PRESSURE LEVEL @ 1M</b>	dbA	68
<b>DESIGN STANDARD</b>		AS1359
<b>CERTIFICATION</b>		
<b>TEMPERATURE RISE ABOVE AMBIENT</b>		< 80 DEG C