

## MONARCH 3-Phase Squirrel Cage Induction Motors Datasheet

MOTOR SERIES	MONARCH Alloy Frame, TEFC to 18.5kW		
START METHOD			DIRECT ON LINE
KW RATING			1.5
VOLTAGE		(V)	240 / 415
PHASES			3
FREQUENCY		(Hz)	50
NO OF POLES			4
FRAME			90L
<b>SPEED</b>			
SYNCHRONOUS		(rpm)	1500
FULL LOAD		(rpm)	1447
<b>CURRENT</b>			
FULL LOAD		(Amps)	3.84 / 2.22
LOCKED ROTOR		%	779
<b>TORQUE</b>			
FULL LOAD TORQUE		(Nm)	9.9
STARTING TORQUE		%	517
MINIMUM TORQUE		%	463
BREAKDOWN TORQUE		%	520
ROTOR INERTIA (J = GD <sup>2</sup> /4)		(Kgm <sup>2</sup> )	0.00771
<b>EFFICIENCY</b>			
100% LOAD		%	85
75% LOAD		%	83.8
50% LOAD		%	80.1
<b>POWER FACTOR</b>			
100% LOAD			64
75% LOAD			53.8
50% LOAD			40.6
INSULATION CLASS			F
ENCLOSURE TYPE			TEFC
IP RATING			55
WEIGHT OF MOTOR		kgs	20.5
<b>BEARINGS</b>			
DRIVE END			6205 ZZ
NON DRIVE END			6205 ZZ
NO LOAD SOUND PRESSURE LEVEL @ 1 M		dbA	67
DESIGN STANDARD			AS1359
TEMPERATURE RISE ABOVE AMBIENT			< 80 DEG C