



# DATASHEET

## MONARCH 1-phase Alloy Frame

<b>MOTOR SERIES</b>	MONARCH 1-phase Alloy Frame	
<b>START METHOD</b>		DIRECT ONLINE
<b>KW RATING</b>		3
<b>VOLTAGE</b>	(V)	240
<b>PHASES</b>		1
<b>FREQUENCY</b>	(Hz)	50
<b>NO OF POLES</b>		4
<b>FRAME</b>		D100L
<b>SPEED</b>		
SYNCHRONOUS	(rpm)	1500
FULL LOAD	(rpm)	1400
<b>CURRENT</b>		
FULL LOAD	(Amps)	17.1
LOCKED ROTOR	%	590
<b>TORQUE</b>		
FULL LOAD TORQUE	(Nm)	
STARTING TORQUE	%	250
MINIMUM TORQUE	%	
BREAKDOWN TORQUE	%	180
<b>ROTOR INERTIA (J = GD<sup>2</sup>/4)</b>	(Kgm <sup>2</sup> )	
<b>EFFICIENCY</b>		
100% LOAD	%	77
75% LOAD	%	
50% LOAD	%	
<b>POWER FACTOR</b>		
100% LOAD	%	95
75% LOAD	%	
50% LOAD	%	
<b>INSULATION CLASS</b>		
<b>ENCLOSURE TYPE</b>		TEFC
<b>IP RATING</b>		55
<b>WEIGHT OF MOTOR</b>	kgs	27
<b>BEARINGS</b>		
DRIVE END		6206 ZZ
NON DRIVE END		6305 ZZ
<b>NO LOAD SOUND PRESSURE LEVEL @ 1M</b>	dbA	
<b>DESIGN STANDARD</b>		AS 1359
<b>CERTIFICATION</b>		
<b>TEMPERATURE RISE ABOVE AMBIENT</b>		< 80 DEG C