

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12624016

Frame	: 143/5T	Locked rotor time	: 18s (cold) 10s (hot)								
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K								
Poles	: 4	Duty cycle	: Cont.(S1)								
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C								
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.								
Rated current	: 5.58/2.79 A	Protection degree	: IP55								
L. R. Amperes	: 46.3/23.2 A	Cooling method	: IC411 - TEFC								
LRC	: 8.3x(Code L)	Mounting	: F-2								
No load current	: 3.26/1.63 A	Rotation ¹	: Both (CW and CCW)								
Rated speed	: 1750 rpm	Noise level ²	: 51.0 dB(A)								
Slip	: 2.78 %	Starting method	: Direct On Line								
Rated torque	: 6.00 ft.lb	Approx. weight ³	: 50.1 lb								
Locked rotor torque	: 270 %										
Breakdown torque	: 320 %										
Insulation class	: F										
Service factor	: 1.25										
Moment of inertia (J)	: 0.1561 sq.ft.lb										
Design	: B										
Output	25%	50%	75%	100%	Foundation loads						
Efficiency (%)	85.2	83.5	85.5	84.0	86.5	84.2	86.5	84.5	Max. traction : 158 lb		
	80.9	80.3	82.0	81.4	83.5	83.1	84.5	84.1			
	86.7	83.7	85.5	84.0	84.0	84.0	82.5	84.0			
	83.8		84.0		84.0		84.0				
Power Factor	0.32	0.31	0.57	0.55	0.70	0.69	0.78	0.77	Max. compression : 208 lb		
	0.27	0.25	0.50	0.47	0.64	0.61	0.73	0.71			
	0.39	0.35	0.66	0.62	0.78	0.74	0.83	0.80			
	0.32		0.60		0.72		0.79				

Losses at normative operating points (speed:torque), in percentage of rated output power

P1 (0,9;1,0)	15.0	15.0	15.0	15.0	15.0	15.0	15.0
P2 (0,5;1,0)	12.8	12.8	12.8	12.8	12.8	12.8	12.8
P3 (0,25;1,0)	12.1	12.1	12.1	12.1	12.1	12.1	12.1
P4 (0,9;0,5)	8.4	8.4	8.4	8.4	8.4	8.4	8.4
P5 (0,5;0,5)	6.0	6.0	6.0	6.0	6.0	6.0	6.0
P6 (0,5;0,25)	4.7	4.7	4.7	4.7	4.7	4.7	4.7
P7 (0,25;0,25)	3.5	3.5	3.5	3.5	3.5	3.5	3.5

	Drive end				Non drive end			
	Bearing type	Sealing	Lubrication interval	Lubricant amount	Lubricant type			
	:	6205 ZZ				6204 ZZ		
		V'Ring				V'Ring		
		-				-		
		-				-		
					Mobil Polyrex EM			

Notes:

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by						
Date	28/03/2024				Page	Revision
					1 / 1	