

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11807185

Catalog # : 01536ET3E254TF3-W22

Frame	: 254T	Locked rotor time	: 45s (cold) 25s (hot)
Output	: 15 HP (11 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 34.4/17.2 A	Protection degree	: IP55
L. R. Amperes	: 230/115 A	Cooling method	: IC411 - TEFC
LRC	: 6.7x(Code G)	Mounting	: F-3
No load current	: 10.6/5.30 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3530 rpm	Noise level ²	: 72.0 dB(A)
Slip	: 1.94 %	Starting method	: Direct On Line
Rated torque	: 22.3 ft.lb	Approx. weight ³	: 266 lb
Locked rotor torque	: 220 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 1.26 sq.ft.lb		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	89.5 90.3	91.0 90.5	91.0 90.5	Max. traction	: 177 lb
	90.1 89.9	90.7 90.8	90.7 90.8		
	89.5 90.2	90.2 90.2	89.5 90.2		
	90.2	91.0	90.2		
Power Factor	0.77 0.73	0.85 0.83	0.88 0.87	Max. compression	: 443 lb
	0.69 0.67	0.80 0.78	0.85 0.84		
	0.83 0.81	0.88 0.87	0.90 0.90		
	0.79	0.86	0.89		

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

Losses (%)	P1 (0,9;1,0)	9.4	9.4	9.4	9.4	9.4	9.4	9.4
	P2 (0,5;1,0)	7.5	7.5	7.5	7.5	7.5	7.5	7.5
	P3 (0,25;1,0)	6.8	6.8	6.8	6.8	6.8	6.8	6.8
	P4 (0,9;0,5)	4.8	4.8	4.8	4.8	4.8	4.8	4.8
	P5 (0,5;0,5)	2.8	2.8	2.8	2.8	2.8	2.8	2.8
	P6 (0,5;0,25)	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	P7 (0,25;0,25)	1.1	1.1	1.1	1.1	1.1	1.1	1.1

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 C3	6209 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	19000 h	20000 h
Lubricant amount	:	13 g	9 g
Lubricant type	:	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	