

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11611480

Catalog # : 01518ET3E254T-W22S

Frame	: 254T	Locked rotor time	: 55s (cold) 31s (hot)
Output	: 15 HP (11 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	: 36.0/18.0 A	Protection degree	: IP55
L. R. Amperes	: 230/115 A	Cooling method	: IC411 - TEFC
LRC	: 6.4x(Code G)	Mounting	: F-1
No load current	: 14.0/7.00 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1768 rpm	Noise level ²	: 64.0 dB(A)
Slip	: 1.78 %	Starting method	: Direct On Line
Rated torque	: 44.6 ft.lb	Approx. weight ³	: 273 lb
Locked rotor torque	: 240 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 2.62 sq.ft.lb		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	91.0 88.8	91.7 90.3	92.4 90.4	Max. traction	: 482 lb
	88.6 88.3	90.3 90.3	90.6 90.8		
	91.0 91.0	90.2 91.0	90.2 91.0		
	91.0	91.0	91.0		
Power Factor	0.68 0.65	0.78 0.77	0.83 0.83	Max. compression	: 755 lb
	0.62 0.59	0.74 0.72	0.81 0.79		
	0.74 0.71	0.82 0.80	0.86 0.85		
	0.69	0.79	0.84		

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

Losses (%)	P1 (0,9;1,0)	8.1	8.1	8.1	8.1	8.1	8.1	8.1
	P2 (0,5;1,0)	6.8	6.8	6.8	6.8	6.8	6.8	6.8
	P3 (0,25;1,0)	6.3	6.3	6.3	6.3	6.3	6.3	6.3
	P4 (0,9;0,5)	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	P5 (0,5;0,5)	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	P6 (0,5;0,25)	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	P7 (0,25;0,25)	1.2	1.2	1.2	1.2	1.2	1.2	1.2

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 C3	6209 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 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	