

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11440205

Catalog # : 02512ET3E324T-W22S

Frame	: 324T	Locked rotor time	: 46s (cold) 26s (hot)
Output	: 25 HP (18.5 kW)	Temperature rise	: 80 K
Poles	: 6	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	: 61.6/30.8 A	Protection degree	: IP55
L. R. Amperes	: 382/191 A	Cooling method	: IC411 - TEFC
LRC	: 6.2x(Code G)	Mounting	: F-1
No load current	: 28.0/14.0 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1180 rpm	Noise level <sup>2</sup>	: 62.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 111 ft.lb	Approx. weight <sup>3</sup>	: 529 lb
Locked rotor torque	: 210 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 11.5 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	92.2	91.1	92.4	91.1	93.0	91.8	93.0	91.6	Max. traction	: 1021 lb
	90.9	90.9	91.1	91.1	92.2	92.2	92.2	92.2		
	92.7	92.1	91.7	91.7	92.4	92.4	91.0	91.7		
	92.1		91.7		92.4		91.7			
Power Factor	0.39	0.39	0.65	0.63	0.76	0.76	0.81	0.82	Max. compression	: 1550 lb
	0.36	0.34	0.60	0.57	0.74	0.71	0.80	0.78		
	0.46	0.43	0.71	0.68	0.80	0.78	0.84	0.83		
	0.40		0.65		0.77		0.82			

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

Losses (%)	P1 (0,9;1,0)	7.3	8.8	8.2	8.2	9.5	8.7	8.7
	P2 (0,5;1,0)	6.1	7.4	6.8	6.8	8.0	7.3	7.3
	P3 (0,25;1,0)	5.9	7.2	6.7	6.7	7.8	7.1	7.1
	P4 (0,9;0,5)	3.7	4.5	4.1	4.1	4.8	4.4	4.4
	P5 (0,5;0,5)	2.5	3.1	2.9	2.9	3.3	3.1	3.1
	P6 (0,5;0,25)	1.7	2.1	2.0	2.0	2.3	2.1	2.1
	P7 (0,25;0,25)	1.2	1.5	1.4	1.4	1.6	1.5	1.5

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6312 C3	6212 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	21 g	13 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 1 / 1  
Revision