

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 ¹	: Both (CW and CCW)
Rated speed	: 1180 rpm	Noise level ²	: 62.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 111 ft.lb	Approx. weight ³	: 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%
Efficiency (%)	92.2	91.1	92.4	91.1
	90.9	90.9	91.1	91.1
	92.7	92.1	91.7	91.7
Power Factor	0.39	0.39	0.65	0.63
	0.36	0.34	0.60	0.57
	0.46	0.43	0.71	0.68
	0.40	0.65	0.77	0.82

Foundation loads

Max. traction : 1021 lb

Max. compression : 1550 lb

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

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

Drive end

Non drive end

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	Revision
			1 / 1	