

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase      Product code : 14325714  
Catalog # : 35018ST3QIERB449T-W2

Frame	: L447/9T	Locked rotor time	: 81s (cold) 45s (hot)
Output	: 350 HP (260 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 394 A	Protection degree	: IP56
L. R. Amperes	: 2719 A	Cooling method	: IC411 - TEFC
LRC	: 6.9x(Code G)	Mounting	: F-1
No load current	: 115 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1787 rpm	Noise level <sup>2</sup>	: 77.0 dB(A)
Slip	: 0.72 %	Starting method	: Direct On Line
Rated torque	: 1030 ft.lb	Approx. weight <sup>3</sup>	: 3214 lb
Locked rotor torque	: 260 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 131 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	95.7	96.1	95.8	96.2	96.2	96.3	96.2	96.3	Max. traction	: 6285 lb
	95.8	95.5	95.9	95.6	96.3	96.2	96.3	96.2		
Power Factor	0.52	0.52	0.76	0.74	0.83	0.82	0.86	0.86	Max. compression	: 9499 lb
	0.48	0.45	0.70	0.66	0.80	0.78	0.85	0.84		

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

Losses (%)	P1 (0,9;1,0)	4.5	4.4	4.4	4.5
	P2 (0,5;1,0)	3.3	3.2	3.2	3.3
	P3 (0,25;1,0)	2.7	2.6	2.6	2.7
	P4 (0,9;0,5)	2.5	2.5	2.5	2.5
	P5 (0,5;0,5)	1.5	1.5	1.5	1.5
	P6 (0,5;0,25)	1.1	1.0	1.0	1.1
	P7 (0,25;0,25)	0.6	0.6	0.6	0.6

		Drive end	Non drive end
Bearing type	:	NU-322 C3	6319 C3
Sealing	:	Inpro/Seal	Inpro/Seal
Lubrication interval	:	4000 h	8000 h
Lubricant amount	:	60 g	45 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	25/03/2024		Page 1 / 1	Revision