

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase      Product code : 11433429  
Catalog # : 05036ST3HIE326TS-W22

Frame	: 324/6TS	Locked rotor time	: 41s (cold) 23s (hot)
Output	: 50 HP (37 kW)	Temperature rise	: 105 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 44.9 A	Protection degree	: IP55
L. R. Amperes	: 278 A	Cooling method	: IC411 - TEFC
LRC	: 6.2x(Code F)	Mounting	: F-1
No load current	: 12.0 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3550 rpm	Noise level <sup>2</sup>	: 78.0 dB(A)
Slip	: 1.39 %	Starting method	: Direct On Line
Rated torque	: 73.0 ft.lb	Approx. weight <sup>3</sup>	: 578 lb
Locked rotor torque	: 220 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 5.75 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	92.9	93.0	93.0	93.0	Max. traction	: 364 lb
Power Factor	0.58	0.83	0.87	0.89	Max. compression	: 942 lb

		Drive end	Non drive end
Bearing type	:	6312 C3	6212 C3
Sealing	:	Inpro/Seal	Inpro/Seal
Lubrication interval	:	12000 h	15000 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		Page      Revision 1 / 1		
Checked by				
Date	24/01/2018			