

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 14271701

Catalog # : 02536ET3H256TC-S

Frame	: 254/6TC	Locked rotor time	: 14s (cold) 8s (hot)
Output	: 25 HP (18.5 kW)	Temperature rise	: 80 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	: 22.8 A	Protection degree	: IP55
L. R. Amperes	: 189 A	Cooling method	: IC411 - TEFC
LRC	: 8.3x(Code J)	Mounting	: W-6
No load current	: 8.04 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3530 rpm	Noise level ²	: 75.0 dB(A)
Slip	: 1.94 %	Starting method	: Direct On Line
Rated torque	: 37.2 ft.lb	Approx. weight ³	: 237 lb
Locked rotor torque	: 240 %		
Breakdown torque	: 340 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 1.31 sq.ft.lb		
Design	: A		

Output	25%	50%	75%	100%
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Efficiency (%)	90.8	91.0	91.7	91.7
Power Factor	0.50	0.77	0.85	0.89

Foundation loads

Max. traction : 488 lb
Max. compression : 725 lb

		Drive end	Non drive end
Bearing type	:	6309 Z C3	6208 Z C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	7898 h	10211 h
Lubricant amount	:	13 g	8 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 1 / 1		
Checked by				
Date	27/03/2024			
		Revision		