

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :						
Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase		Product code :	12898024		
			Catalog # :	00712ET3ER254TC-S		
Frame	: 254/6TC	Locked rotor time	: 75s (cold) 42s (hot)			
Output	: 7.5 HP (5.5 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	: 20.0/9.98 A	Protection degree	: IP55			
L. R. Amperes	: 108/53.9 A	Cooling method	: IC411 - TEFC			
LRC	: 5.4x(Code G)	Mounting	: W-6			
No load current	: 10.1/5.03 A	Rotation ¹	: Both (CW and CCW)			
Rated speed	: 1175 rpm	Noise level ²	: 59.0 dB(A)			
Slip	: 2.08 %	Starting method	: Direct On Line			
Rated torque	: 33.5 ft.lb	Approx. weight ³	: 227 lb			
Locked rotor torque	: 200 %					
Breakdown torque	: 229 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 2.34 sq.ft.lb					
Design	: B					
Output	25%	50%	75%	100%		
Efficiency (%)	88.1	91.0	89.5	89.9		
	89.9	89.4	89.8	89.0		
Power Factor	0.35	0.40	0.58	0.65		
	0.34	0.58	0.70	0.76		
Foundation loads						
	Max. traction		: 313 lb			
	Max. compression		: 539 lb			
Drive end						
Bearing type	: 6309 Z C3	Non drive end	6208 Z C3			
Sealing	: V'Ring		Without Bearing Seal			
Lubrication interval	: 19702 h		20000 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.						
Rev.	Changes Summary			Performed		
				Checked		
Performed by						
Checked by						
Date	27/03/2024					
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