

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line : W22 NEMA Premium Efficiency Three-Phase		Product code : 11438382			
		Catalog # : 01012ET3E256T-W22			
Frame	: 254/6T	Locked rotor time	: 46s (cold) 26s (hot)		
Output	: 10 HP (7.5 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	: 26.6/13.3 A	Protection degree	: IP55		
L. R. Amperes	: 173/86.5 A	Cooling method	: IC411 - TEFC		
LRC	: 6.5x(Code H)	Mounting	: F-1		
No load current	: 12.0/6.00 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	: 44.7 ft.lb	Approx. weight ³	: 304 lb		
Locked rotor torque	: 229 %				
Breakdown torque	: 280 %				
Insulation class	: F				
Service factor	: 1.25				
Moment of inertia (J)	: 4.43 sq.ft.lb				
Design	: B				
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	90.2 90.2	91.0 89.5	91.0 89.1	Max. traction : 519 lb	
	90.2 89.5	90.2 90.2	89.5 89.5		
Power Factor	0.63 0.66	0.74 0.79	0.78 0.83	Max. compression : 824 lb	
	0.63 0.60	0.77 0.75	0.82 0.81		
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	9.8	9.8	9.8	9.8
	P2 (0,5;1,0)	8.4	8.4	8.4	8.4
	P3 (0,25;1,0)	7.8	7.8	7.8	7.8
	P4 (0,9;0,5)	5.0	5.0	5.0	5.0
	P5 (0,5;0,5)	3.6	3.6	3.6	3.6
	P6 (0,5;0,25)	2.5	2.5	2.5	2.5
	P7 (0,25;0,25)	1.8	1.8	1.8	1.8
Bearing type	:	Drive end 6309 C3	Non drive end 6209 C3		
Sealing	:	V'Ring	V'Ring		
Lubrication interval	:	20000 h	20000 h		
Lubricant amount	:	13 g	9 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				Page	Revision
Date	26/03/2024			1 / 1	