

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase		Product code :	12677333
			Catalog # :	00336ET3ER182TC-S
Frame	: 182/4TC	Locked rotor time	: 45s (cold) 25s (hot)	
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K	
Poles	: 2	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	: 7.52/3.76 A	Protection degree	: IP55	
L. R. Amperes	: 66.2/33.1 A	Cooling method	: IC411 - TEFC	
LRC	: 8.8x(Code K)	Mounting	: W-6	
No load current	: 3.40/1.70 A	Rotation ¹	: Both (CW and CCW)	
Rated speed	: 3515 rpm	Noise level ²	: 68.0 dB(A)	
Slip	: 2.36 %	Starting method	: Direct On Line	
Rated torque	: 4.48 ft.lb	Approx. weight ³	: 70.1 lb	
Locked rotor torque	: 240 %			
Breakdown torque	: 350 %			
Insulation class	: F			
Service factor	: 1.15			
Moment of inertia (J)	: 0.1564 sq.ft.lb			
Design	: B			
Output	25%	50%	75%	100%
Efficiency (%)	83.6	82.5	84.0	83.0
	83.6	83.9	84.0	84.0
Power Factor	0.43	0.48	0.70	0.74
	0.41	0.67	0.80	0.85
Losses at normative operating points (speed;torque), in percentage of rated output power				
Losses (%)	P1 (0,9;1,0)	14.2	18.3	17.3
	P2 (0,5;1,0)	10.4	13.5	12.8
	P3 (0,25;1,0)	10.2	13.2	12.5
	P4 (0,9;0,5)	8.6	11.1	10.5
	P5 (0,5;0,5)	4.8	6.2	5.9
	P6 (0,5;0,25)	3.5	4.6	4.3
	P7 (0,25;0,25)	2.2	2.9	2.7
		Drive end	Non drive end	
Bearing type	: 6206 ZZ		6205 ZZ	
Sealing	: V'Ring		Without Bearing Seal	
Lubrication interval	: -		-	
Lubricant amount	: -		-	
Lubricant type	: Mobil Polyrex EM			
Notes:				
This revision replaces and cancel the previous one, which must be eliminated.			These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.	
(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			
			Page	Revision
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