

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line		: W22 NEMA Premium Efficiency Three-Phase		Product code :	12445601
				Catalog # :	00118ET3E143TC-W22
Frame	: 143/5TC	Locked rotor time	: 32s (cold) 18s (hot)		
Output	: 1 HP (0.75 kW)	Temperature rise	: 80 K		
Poles	: 4	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	: 2.94/1.47 A	Protection degree	: IP55		
L. R. Amperes	: 25.3/12.6 A	Cooling method	: IC411 - TEFC		
LRC	: 8.6x(Code M)	Mounting	: F-1		
No load current	: 1.88/0.940 A	Rotation <sup>1</sup>	: Both (CW and CCW)		
Rated speed	: 1760 rpm	Noise level <sup>2</sup>	: 51.0 dB(A)		
Slip	: 2.22 %	Starting method	: Direct On Line		
Rated torque	: 2.98 ft.lb	Approx. weight <sup>3</sup>	: 46.8 lb		
Locked rotor torque	: 290 %				
Breakdown torque	: 350 %				
Insulation class	: F				
Service factor	: 1.25				
Moment of inertia (J)	: 0.1172 sq.ft.lb				
Design	: B				
Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	78.4	79.6	80.0	80.0	Max. traction : 74 lb
	78.4	78.4	80.0	80.0	Max. compression : 121 lb
Power Factor	0.31	0.36	0.55	0.62	
	0.33	0.31	0.58	0.55	
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	15.9	15.9	15.9	15.9
	P2 (0,5;1,0)	12.8	12.8	12.8	12.8
	P3 (0,25;1,0)	12.5	12.5	12.5	12.5
	P4 (0,9;0,5)	10.1	10.1	10.1	10.1
	P5 (0,5;0,5)	7.0	7.0	7.0	7.0
	P6 (0,5;0,25)	5.8	5.8	5.8	5.8
	P7 (0,25;0,25)	4.3	4.3	4.3	4.3
			Drive end	Non drive end	
Bearing type	:	6205 ZZ		6204 ZZ	
Sealing	:	V'Ring		V'Ring	
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
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