

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :								
Product line	: W22 NEMA Premium Efficiency Three-Phase			Product code :	11806070			
				Catalog # :	02536ET3E284TSF3-W22			
Frame	: 284TS	Locked rotor time	: 30s (cold) 17s (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	: 230/460 V	Altitude	: 1000 m.a.s.l.					
Rated current	: 57.5/28.8 A	Protection degree	: IP55					
L. R. Amperes	: 363/181 A	Cooling method	: IC411 - TEFC					
LRC	: 6.3x(Code G)	Mounting	: F-3					
No load current	: 16.3/8.15 A	Rotation <sup>1</sup>	: Both (CW and CCW)					
Rated speed	: 3545 rpm	Noise level <sup>2</sup>	: 72.0 dB(A)					
Slip	: 1.53 %	Starting method	: Direct On Line					
Rated torque	: 37.0 ft.lb	Approx. weight <sup>3</sup>	: 361 lb					
Locked rotor torque	: 200 %							
Breakdown torque	: 250 %							
Insulation class	: F							
Service factor	: 1.25							
Moment of inertia (J)	: 2.69 sq.ft.lb							
Design	: B							
Output	25%	50%	75%	100%	Foundation loads			
Efficiency (%)	90.8	89.0	91.0	90.2	91.7	90.7	91.7	
	89.4	88.9	90.3	89.8	91.1	91.1	91.9	
	91.5	91.5	91.0	91.0	90.2	91.0	89.5	
	90.9	91.0	91.0	91.0	91.0	91.0	90.2	
Power Factor	0.54	0.56	0.78	0.79	0.85	0.86	0.88	
	0.52	0.48	0.76	0.73	0.84	0.82	0.87	
	0.62	0.58	0.83	0.81	0.88	0.87	0.89	
	0.55	0.79	0.85	0.85	0.88	0.88	0.88	
Losses at normative operating points (speed;torque), in percentage of rated output power								
Losses (%)	P1 (0,9;1,0)	8.1	7.9	7.9	7.9	10.6	9.8	8.9
	P2 (0,5;1,0)	5.6	5.5	5.5	5.5	7.3	6.7	6.1
	P3 (0,25;1,0)	4.9	4.8	4.8	4.8	6.3	5.9	5.3
	P4 (0,9;0,5)	4.8	4.6	4.6	4.6	6.2	5.7	5.2
	P5 (0,5;0,5)	2.5	2.4	2.4	2.4	3.2	2.9	2.7
	P6 (0,5;0,25)	1.7	1.7	1.7	1.7	2.2	2.1	1.9
	P7 (0,25;0,25)	0.9	0.9	0.9	0.9	1.2	1.1	1.0
Drive end				Non drive end				
Bearing type	:	6311 C3		6211 C3				
Sealing	:	V'Ring		V'Ring				
Lubrication interval	:	14000 h		17000 h				
Lubricant amount	:	18 g		11 g				
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	Date		
Performed by								
Checked by						Page	Revision	
Date	28/03/2024					1 / 1		