

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line : W22 Super Premium Efficiency Three-Phase		Product code : 11715311		
		Catalog # : 07518EG3E365T-W22		
Frame	: 364/5T	Locked rotor time	: 28s (cold) 16s (hot)	
Output	: 75 HP (55 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	: 174/86.8 A	Protection degree	: IP55	
L. R. Amperes	: 1528/764 A	Cooling method	: IC411 - TEFC	
LRC	: 8.8x(Code K)	Mounting	: F-1	
No load current	: 76.0/38.0 A	Rotation <sup>1</sup>	: Both (CW and CCW)	
Rated speed	: 1780 rpm	Noise level <sup>2</sup>	: 67.0 dB(A)	
Slip	: 1.11 %	Starting method	: Direct On Line	
Rated torque	: 221 ft.lb	Approx. weight <sup>3</sup>	: 926 lb	
Locked rotor torque	: 280 %			
Breakdown torque	: 320 %			
Insulation class	: F			
Service factor	: 1.25			
Moment of inertia (J)	: 16.9 sq.ft.lb			
Design	: A			
Output	50%	75%	100%	Foundation loads
Efficiency (%)	94.5 94.1	95.4 94.6	95.8 94.6	Max. traction : 2452 lb
	94.0 94.0	94.6 94.6	94.6 94.6	Max. compression : 3378 lb
Power Factor	0.68 0.72	0.78 0.82	0.83 0.86	
	0.68 0.65	0.80 0.78	0.85 0.83	
Losses at normative operating points (speed;torque), in percentage of rated output power				
Losses (%)	P1 (0,9;1,0)	4.2	5.5	5.5
	P2 (0,5;1,0)	3.2	4.2	4.2
	P3 (0,25;1,0)	2.8	3.7	3.7
	P4 (0,9;0,5)	2.4	3.2	3.2
	P5 (0,5;0,5)	1.5	2.0	2.0
	P6 (0,5;0,25)	1.1	1.5	1.5
	P7 (0,25;0,25)	0.7	0.9	0.9
		Drive end	Non drive end	
Bearing type	: 6314 C3		6314 C3	
Sealing	: WSeal		WSeal	
Lubrication interval	: 12000 h		12000 h	
Lubricant amount	: 27 g		27 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.				
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