

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line	: W22 Super Premium Efficiency Three-Phase	Product code :	11792475		
		Catalog # :	07536EG3E365TS-W22		
Frame	: 364/5TS	Cooling method	: IC411 - TEFC		
Insulation class	: F	Mounting	: F-1		
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)		
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>2</sup>	: 903 lb		
Protection degree	: IP55	Moment of inertia (J)	: 8.61 sq.ft.lb		
Design	: A				
Output [HP]	75	75	75	75	
Poles	2	2	2	2	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	230/460	380	400	415	
Rated current [A]	165/82.6	98.3	93.9	91.5	
L. R. Amperes [A]	1322/661	678	704	732	
LRC [A]	8.0x(Code H)	6.9x(Code G)	7.5x(Code H)	8.0x(Code H)	
No load current [A]	56.0/28.0	27.5	30.0	31.5	
Rated speed [RPM]	3570	2960	2965	2970	
Slip [%]	0.83	1.33	1.17	1.00	
Rated torque [ft.lb]	109	131	131	131	
Locked rotor torque [%]	260	200	220	240	
Breakdown torque [%]	320	240	280	310	
Service factor	1.25	1.25	1.15	1.15	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	25s (cold) 14s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	
Noise level <sup>2</sup>	79.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	
Efficiency (%)	25%	93.4	94.0	94.4	94.4
	50%	93.6	94.1	94.5	94.5
	75%	95.0	94.5	95.0	95.0
	100%	95.0	94.5	95.0	95.0
Power Factor	25%	0.51	0.57	0.53	0.50
	50%	0.77	0.82	0.79	0.76
	75%	0.85	0.88	0.86	0.85
	100%	0.88	0.90	0.89	0.88
Bearing type	: <u>Drive end</u> 6314 C3 <u>Non drive end</u> 6314 C3	Foundation loads			
Sealing	: WSeal WSeal	Max. traction	: 956 lb		
Lubrication interval	: 4000 h 4000 h	Max. compression	: 1858 lb		
Lubricant amount	: 27 g 27 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	24/01/2018			1 / 1	