

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line		: W21 NEMA Premium Efficiency Three-Phase		Product code : 10836885
Frame	: 326Y		Locked rotor time	: 36s (cold) 20s (hot)
Output	: 50 HP (37 kW)		Temperature rise	: 105 K
Poles	: 4		Duty cycle	: Cont.(S1)
Frequency	: 60 Hz		Ambient temperature	: 40°C to +40°C
Rated voltage	: 208-230/460 V		Altitude	: 1000 m.a.s.l.
Rated current	: 134-121/60.6 A		Protection degree	: IP55
L. R. Amperes	: 979-885/443 A		Cooling method	: IC418 - TEAO
LRC	: 7.3x(Code H)		Mounting	: F-1
No load current	: 47.4-55.0/27.5 A		Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1780 rpm		Noise level <sup>2</sup>	: 71.0 dB(A)
Slip	: 1.11 %		Starting method	: Direct On Line
Rated torque	: 148 ft.lb		Approx. weight <sup>3</sup>	: 579 lb
Locked rotor torque	: 260 %			
Breakdown torque	: 280 %			
Insulation class	: F			
Service factor	: 1.25			
Moment of inertia (J)	: 9.16 sq.ft.lb			
Design	: B			
Output	25%	50%	75%	100%
Efficiency (%)	93.4	94.5	93.6	93.6
	94.5	93.6	93.6	94.5
	93.6	93.6	94.5	93.6
	94.5	93.6	93.6	93.0
	92.4	93.3	92.8	93.0
	93.0	93.0	93.6	93.0
	93.6	93.0	93.6	93.6
Power Factor	0.39	0.46	0.65	0.71
	0.76	0.80	0.81	0.83
	0.42	0.39	0.67	0.64
	0.78	0.75	0.82	0.80
Foundation loads	Max. traction : 1568 lb			
Max. compression	: 2147 lb			
Bearing type	: <u>Drive end</u>		: <u>Non drive end</u>	
Sealing	: 6312 C3		: 6212 C3	
Lubrication interval	: V'Ring		: V'Ring	
Lubricant amount	: 20000 h		: 20000 h	
Lubricant type	: 21 g		: 13 g	
	: 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.	
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### Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

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