

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 NEMA Premium Efficiency Three-Phase Product code : 10836883

Frame	: 326Y	Locked rotor time	: 59s (cold) 33s (hot)
Output	: 40 HP (30 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	: 107-96.5/48.2 A	Protection degree	: IP55
L. R. Amperes	: 715-647/323 A	Cooling method	: IC418 - TEAO
LRC	: 6.7x(Code H)	Mounting	: F-1
No load current	: 34.5-40.0/20.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1775 rpm	Noise level ²	: 71.0 dB(A)
Slip	: 1.39 %	Starting method	: Direct On Line
Rated torque	: 118 ft.lb	Approx. weight ³	: 576 lb
Locked rotor torque	: 229 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 9.16 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	92.8	93.4	93.0	93.0	94.1	93.0	94.1	92.4	Max. traction	: 919 lb
	92.8	92.7	93.0	92.4	93.0	93.6	93.0	93.0		
Power Factor	0.42	0.49	0.68	0.74	0.79	0.83	0.83	0.85	Max. compression	: 1494 lb
	0.45	0.42	0.70	0.68	0.81	0.79	0.84	0.83		

					<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:				6312 C3	6212 C3
Sealing	:				V'Ring	V'Ring
Lubrication interval	:				20000 h	20000 h
Lubricant amount	:				21 g	13 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.

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Customer :

Thermal protection

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

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