

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase Product code : 12903851

Frame	: 364/5T	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 30 HP (22 kW)	Temperature rise	: 80 K
Poles	: 8	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 30.8 A	Protection degree	: IP55
L. R. Amperes	: 176 A	Cooling method	: IC411 - TEFC
LRC	: 5.7x(Code G)	Mounting	: F-1
No load current	: 14.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 885 rpm	Noise level ²	: 62.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 24.6 kgfm	Approx. weight ³	: 419 kg
Locked rotor torque	: 210 %		
Breakdown torque	: 220 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.9884 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	92.4	93.0	93.0	Max. traction	: 399 kgf
Power Factor	0.64	0.73	0.77	Max. compression	: 818 kgf

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
7.2	5.8	5.5	3.7	2.5	1.8	1.2

	Drive end	Non drive end
Bearing type	: 6314 C3	: 6314 C3
Sealing	: Oil Seal	: Lip Seal
Lubrication interval	: 17353 h	: 17353 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.

- (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	Thermostat - 2 wires	1 x Phase	155 °C

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LOAD PERFORMANCE CURVE

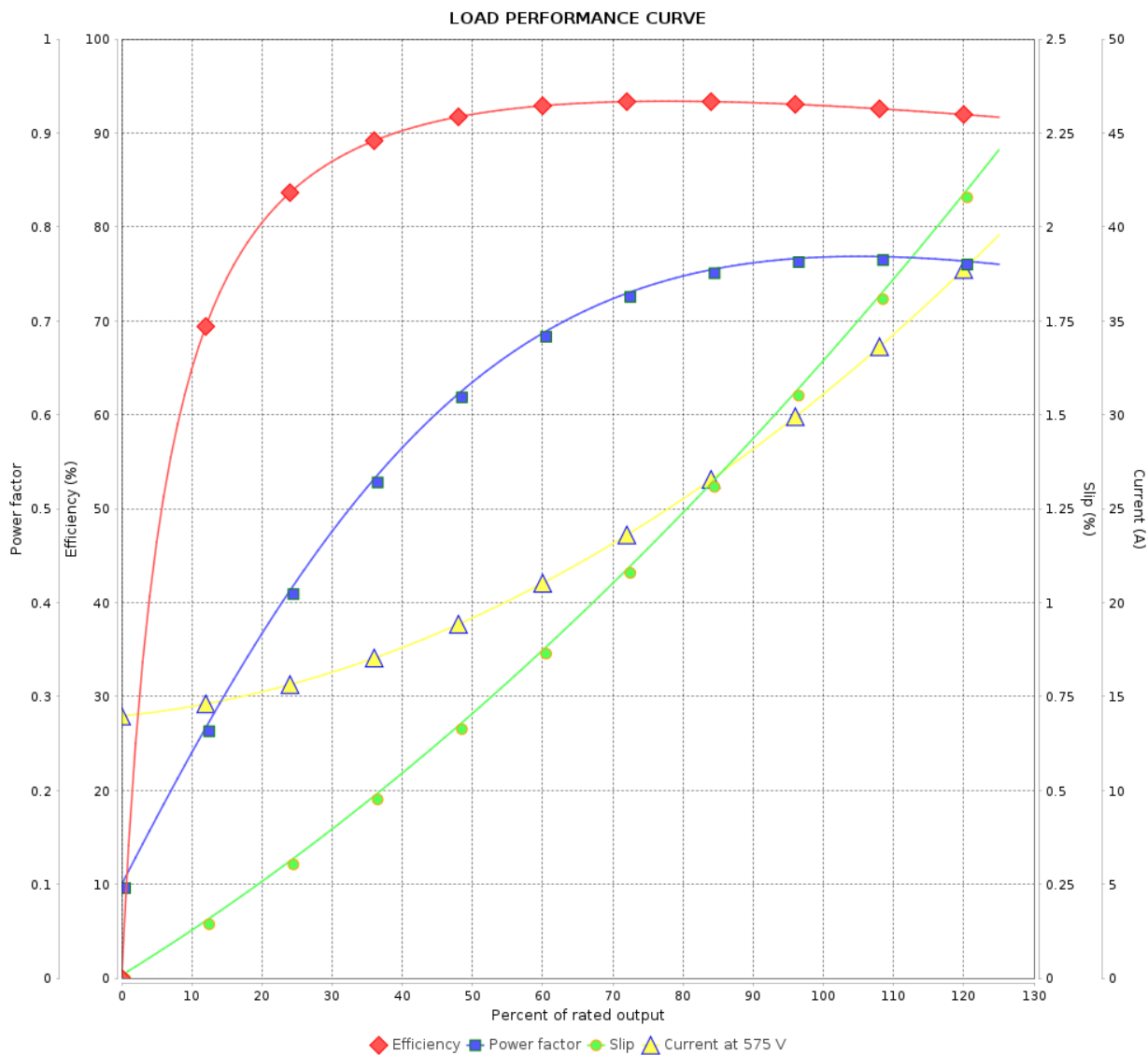
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA
Premium Efficiency Three-Phase

Product code : 12903851



Performance : 575 V 60 Hz 8P

Rated current : 30.8 A
LRC : 5.7
Rated torque : 24.6 kgfm
Locked rotor torque : 210 %
Breakdown torque : 220 %
Rated speed : 885 rpm

Moment of inertia (J) : 0.9884 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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