

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11616142

Frame	: 444/5TS	Locked rotor time	: 39s (cold) 22s (hot)
Output	: 150 HP (110 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 130 A	Protection degree	: IP55
L. R. Amperes	: 848 A	Cooling method	: IC411 - TEFC
LRC	: 6.5x(Code G)	Mounting	: F-1
No load current	: 32.8 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3570 rpm	Noise level ²	: 81.0 dB(A)
Slip	: 0.83 %	Starting method	: Direct On Line
Rated torque	: 30.5 kgfm	Approx. weight ³	: 788 kg
Locked rotor torque	: 180 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 1.65 kgm ²		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	94.0	94.1	95.0	95.0	Max. traction	: 246 kgf
Power Factor	0.60	0.83	0.88	0.89	Max. compression	: 1034 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)
5.3	3.5	2.9	3.3	1.7	1.3	0.6

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6314 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	4000 h	4000 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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LOAD PERFORMANCE CURVE

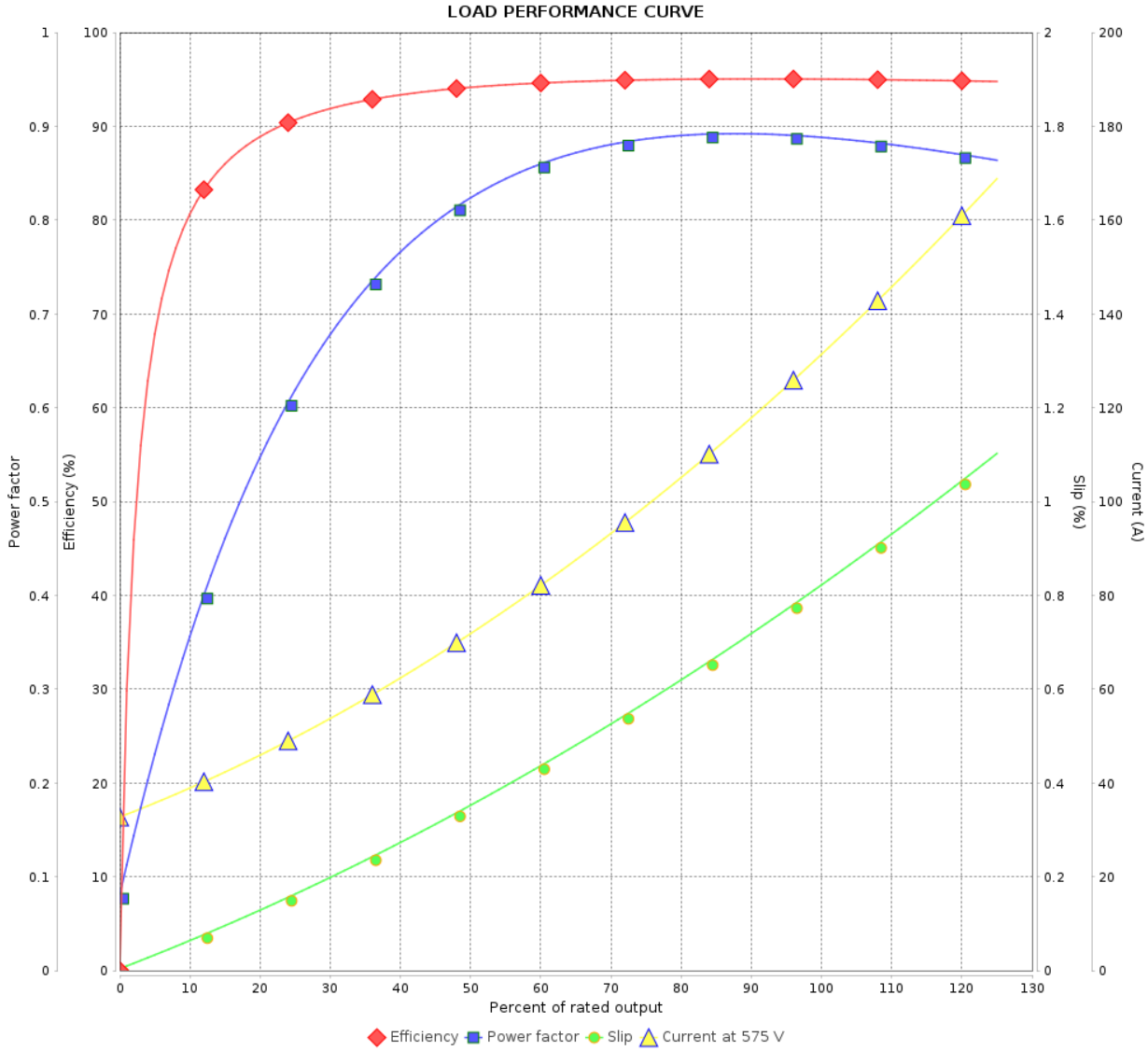
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Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11616142



Performance : 575 V 60 Hz 2P

Rated current : 130 A
 LRC : 6.5
 Rated torque : 30.5 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 240 %
 Rated speed : 3570 rpm

Moment of inertia (J) : 1.65 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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