

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 15322405

Frame	: 132M	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 15 HP (11 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 13.9 A	Protection degree	: IP55
L. R. Amperes	: 128 A	Cooling method	: IC411 - TEFC
LRC	: 9.2	Mounting	: B34L(E)
No load current	: 4.80 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3535 rpm	Noise level ²	: 68.0 dB(A)
Slip	: 1.81 %	Starting method	: Direct On Line
Rated torque	: 3.08 kgfm	Approx. weight ³	: 85.6 kg
Locked rotor torque	: 310 %		
Breakdown torque	: 370 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0306 kgm ²		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	88.5	90.2	91.0	Max. traction	: 168 kgf
Power Factor	0.73	0.82	0.87	Max. compression	: 253 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)
9.5	7.4	6.6	5.1	3.1	2.1	1.3

	Drive end	Non drive end
Bearing type	: 6308 ZZ	: 6207 ZZ
Sealing	: V'Ring	: V'Ring
Lubrication interval	: -	: -
Lubricant amount	: -	: -
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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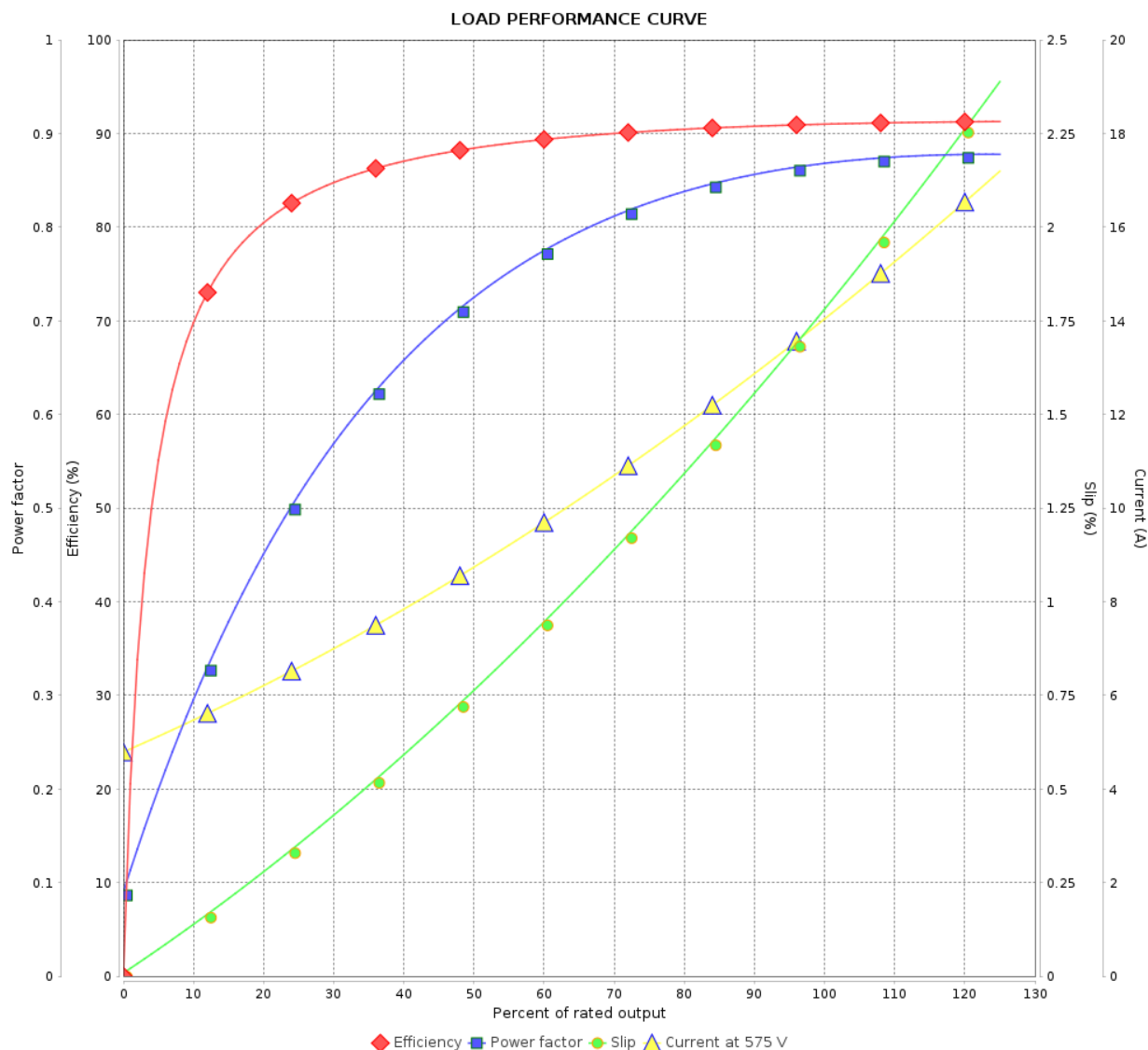
LOAD PERFORMANCE CURVE

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Performance : 575 V 60 Hz 2P

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LRC	: 9.2	Duty cycle	: S1
Rated torque	: 3.08 kgfm	Insulation class	: F
Locked rotor torque	: 310 %	Service factor	: 1.25
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 3535 rpm	Design	: N

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