

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 11830414

Frame	: 90S	Locked rotor time	: 37s (cold) 21s (hot)
Output	: 1.5 HP (1.1 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 4.06/2.03 A	Protection degree	: IP55
L. R. Amperes	: 37.8/18.9 A	Cooling method	: IC411 - TEFC
LRC	: 9.3	Mounting	: B3L(E)
No load current	: 2.12/1.06 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3500 rpm	Noise level ²	: 68.0 dB(A)
Slip	: 2.78 %	Starting method	: Direct On Line
Rated torque	: 0.311 kgfm	Approx. weight ³	: 19.4 kg
Locked rotor torque	: 390 %		
Breakdown torque	: 440 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0018 kgm ²		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	77.0	81.5	84.0	Max. traction	: 29 kgf
Power Factor	0.63	0.75	0.81	Max. compression	: 48 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)
17.3	12.0	10.8	11.1	6.1	4.8	3.0

	Drive end	Non drive end
Bearing type	: 6205 ZZ	: 6204 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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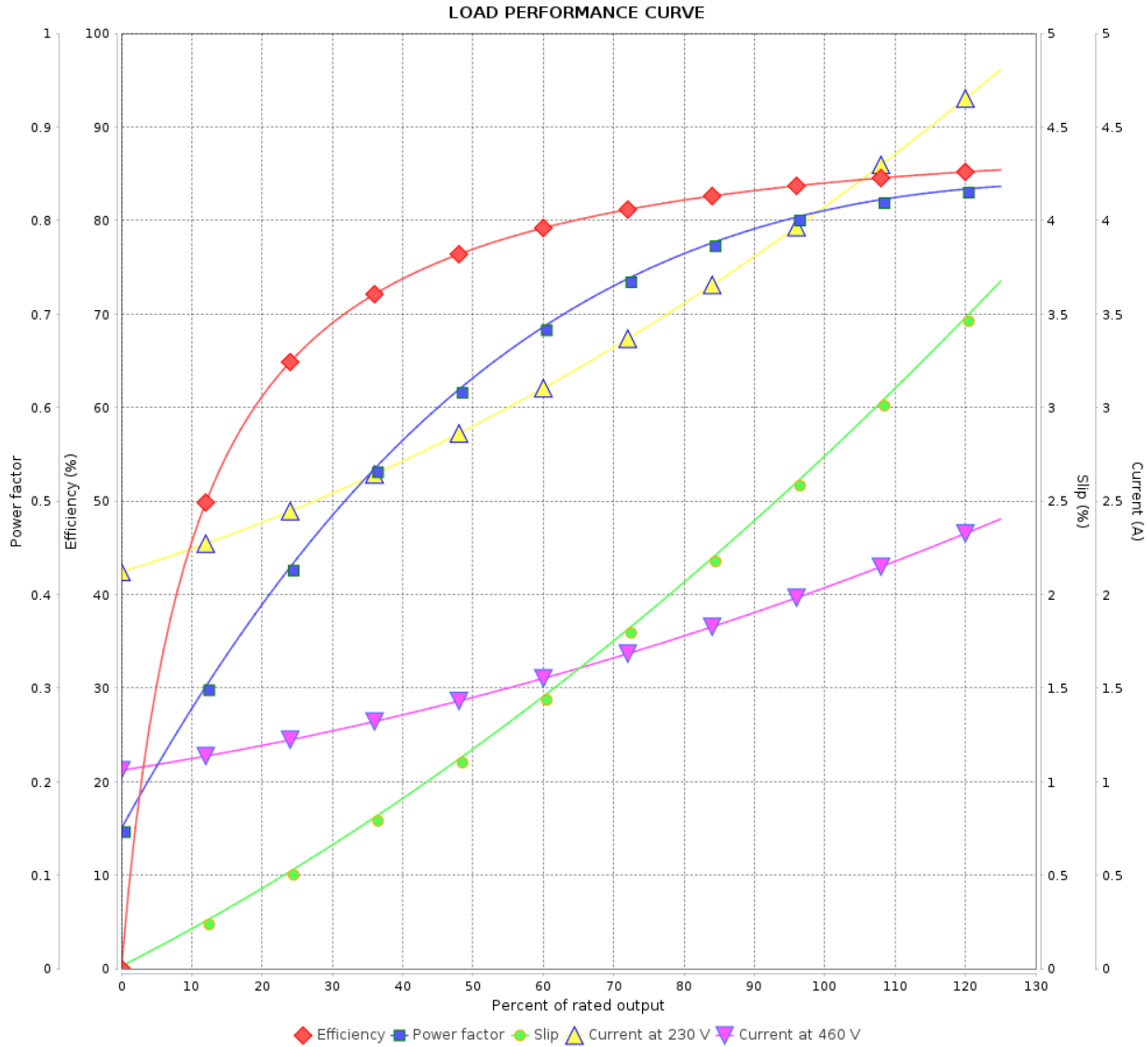


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Product code :

11830414



Performance : 230/460 V 60 Hz 2P

Rated current : 4.06/2.03 A
 LRC : 9.3
 Rated torque : 0.311 kgfm
 Locked rotor torque : 390 %
 Breakdown torque : 440 %
 Rated speed : 3500 rpm

Moment of inertia (J) : 0.0018 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : N

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