

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12730182

Frame	: 182T	Locked rotor time	: 41s (cold) 23s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 70 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +50°C
Rated voltage	: 115 V	Altitude	: 1000 m.a.s.l.
Rated current	: 15.6 A	Protection degree	: IP55
L. R. Amperes	: 127 A	Cooling method	: IC411 - TEFC
LRC	: 8.1x(Code K)	Mounting	: F-1
No load current	: 8.00 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1760 rpm	Noise level <sup>2</sup>	: 56.0 dB(A)
Slip	: 2.22 %	Starting method	: Direct On Line
Rated torque	: 1.24 kgfm	Approx. weight <sup>3</sup>	: 41.0 kg
Locked rotor torque	: 229 %		
Breakdown torque	: 340 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0143 kgm <sup>2</sup>		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	87.5	88.5	89.5	Max. traction	: 67 kgf
Power Factor	0.00	0.61	0.73	0.79	Max. compression	: 108 kgf

	Drive end	Non drive end
Bearing type	: 6207 ZZ	6206 ZZ
Sealing	: V'Ring	V'Ring
Lubrication interval	: 0 h	0 h
Lubricant amount	: 0 g	0 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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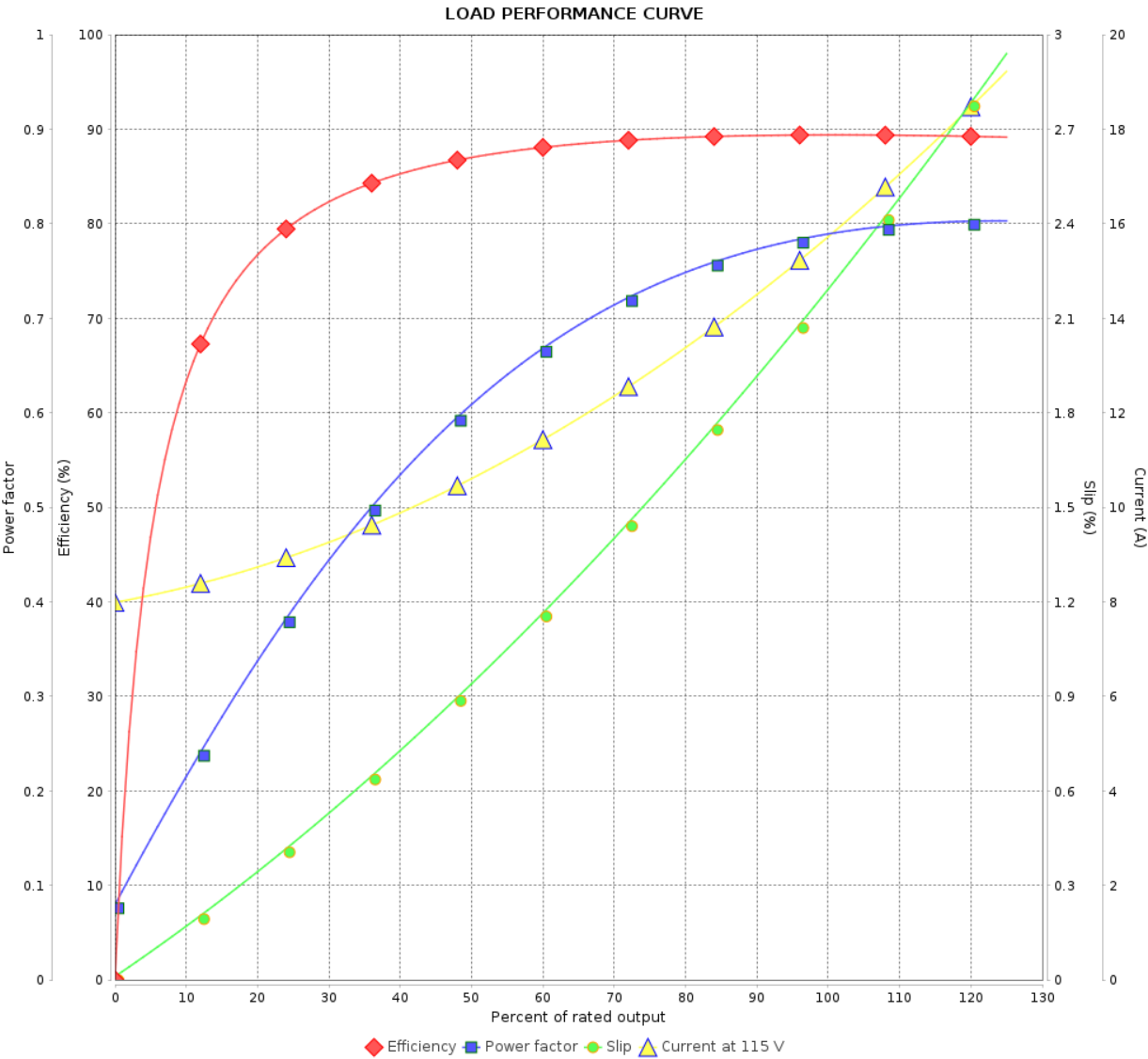
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase      Product code : 12730182



Performance : 115 V 60 Hz 4P

Rated current	: 15.6 A	Moment of inertia (J)	: 0.0143 kgm <sup>2</sup>
LRC	: 8.1	Duty cycle	: Cont.(S1)
Rated torque	: 1.24 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 340 %	Temperature rise	: 70 K
Rated speed	: 1760 rpm	Design	: B

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