

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 P Base NEMA Premium Efficiency Three-Phase Product code : 13822029

Frame	: 143/5HP	Locked rotor time	: 19s (cold) 11s (hot)
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 2.20 A	Protection degree	: IP55
L. R. Amperes	: 17.6 A	Cooling method	: IC411 - TEFC
LRC	: 8.0x(Code K)	Mounting	: W-6
No load current	: 1.20 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1750 rpm	Noise level ²	: 51.0 dB(A)
Slip	: 2.78 %	Starting method	: Direct On Line
Rated torque	: 0.829 kgfm	Approx. weight ³	: 27.0 kg
Locked rotor torque	: 270 %		
Breakdown torque	: 320 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0066 kgm ²		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	0.000	85.5	86.5	86.5	Max. traction
Power Factor	0.00	0.57	0.70	0.79	Max. compression

	Drive end	Non drive end
Bearing type	: 6307 ZZ	6204 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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page Revision 1 / 2		
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Date	26/10/2024			

LOAD PERFORMANCE CURVE

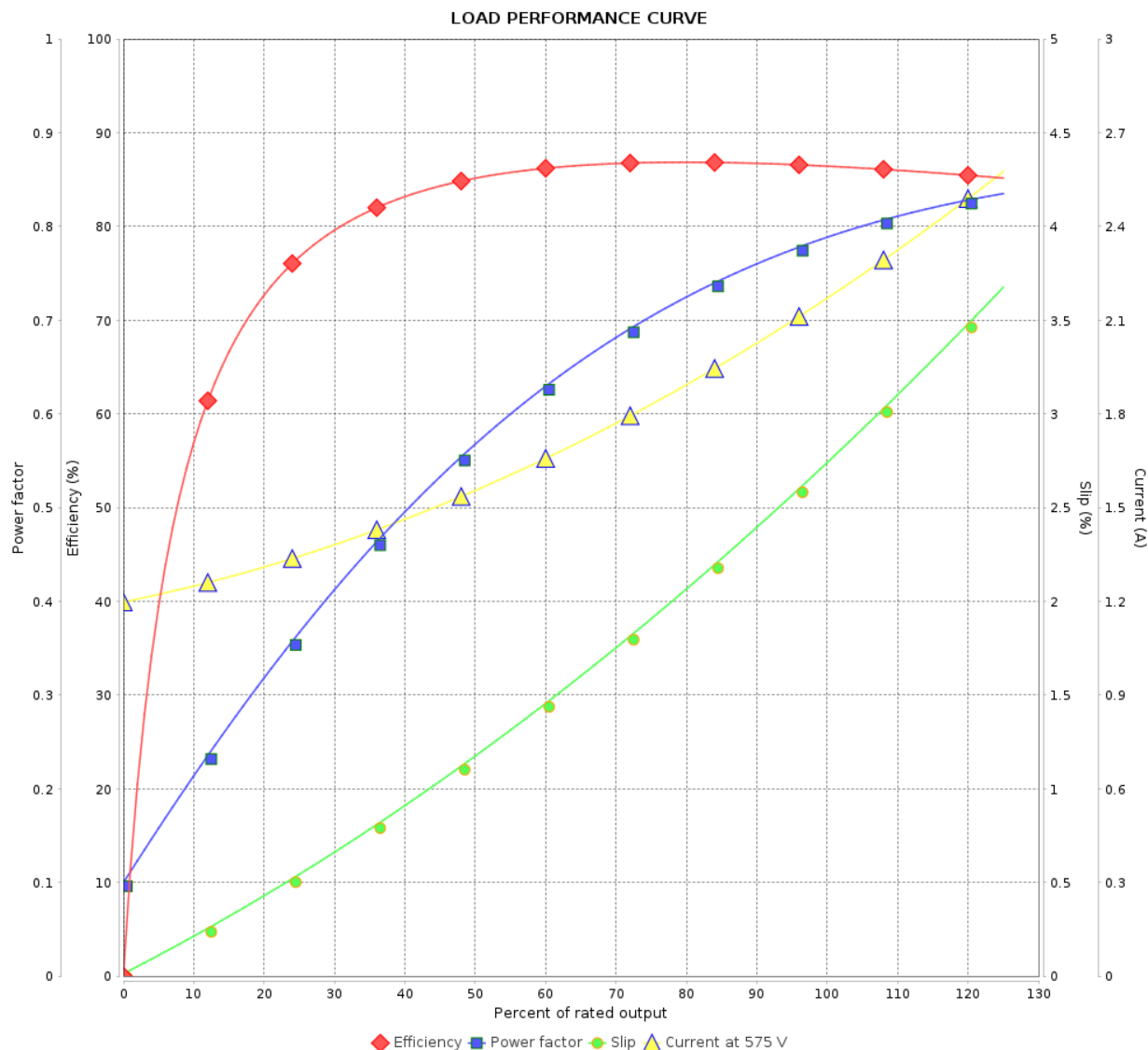
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Customer :

Product line : W22 P Base NEMA Premium
Efficiency Three-Phase

Product code : 13822029



Performance : 575 V 60 Hz 4P

Rated current : 2.20 A
LRC : 8.0
Rated torque : 0.829 kgfm
Locked rotor torque : 270 %
Breakdown torque : 320 %
Rated speed : 1750 rpm

Moment of inertia (J) : 0.0066 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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