

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 P Base NEMA Premium Efficiency Three-Phase Product code : 14266924

Frame	: 145HP	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 1.5 HP (1.1 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 208 V	Altitude	: 1000 m.a.s.l.
Rated current	: 4.36 A	Protection degree	: IP55
L. R. Amperes	: 36.6 A	Cooling method	: IC411 - TEFC
LRC	: 8.4x(Code L)	Mounting	: W-6
No load current	: 1.90 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1755 rpm	Noise level ²	: 51.0 dB(A)
Slip	: 2.50 %	Starting method	: Direct On Line
Rated torque	: 0.620 kgfm	Approx. weight ³	: 25.9 kg
Locked rotor torque	: 290 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0060 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads
Efficiency (%)	82.5	85.5	86.5	Max. traction
Power Factor	0.60	0.70	0.79	Max. compression

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)
14.6	12.1	12.2	8.2	5.7	4.3	3.2

	Drive end	Non drive end
Bearing type	: 6307 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.

Rev.	Changes Summary	Performed	Checked	Date
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LOAD PERFORMANCE CURVE

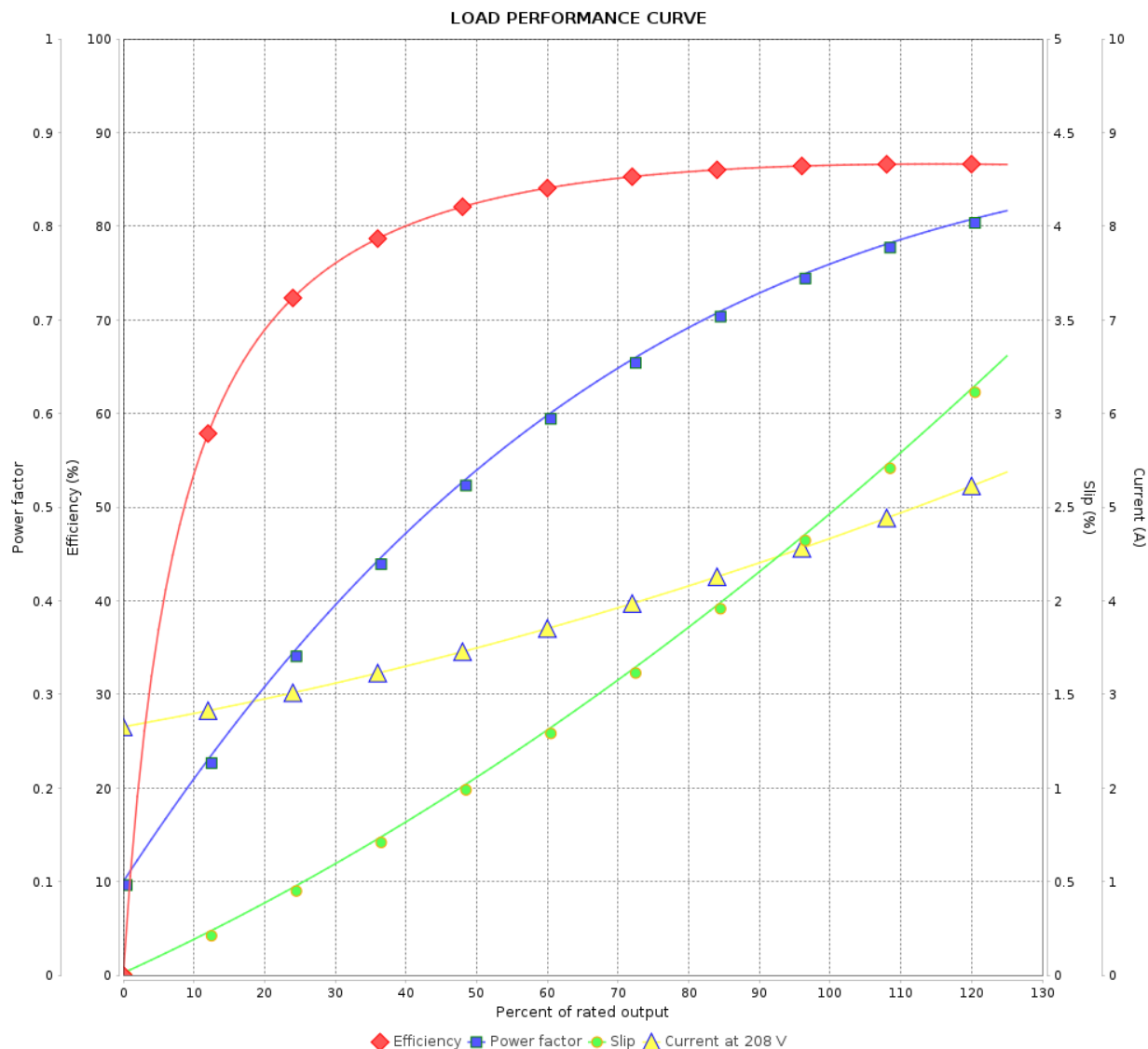
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Efficiency Three-Phase

Product code : 14266924

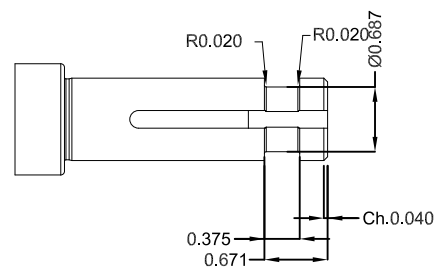
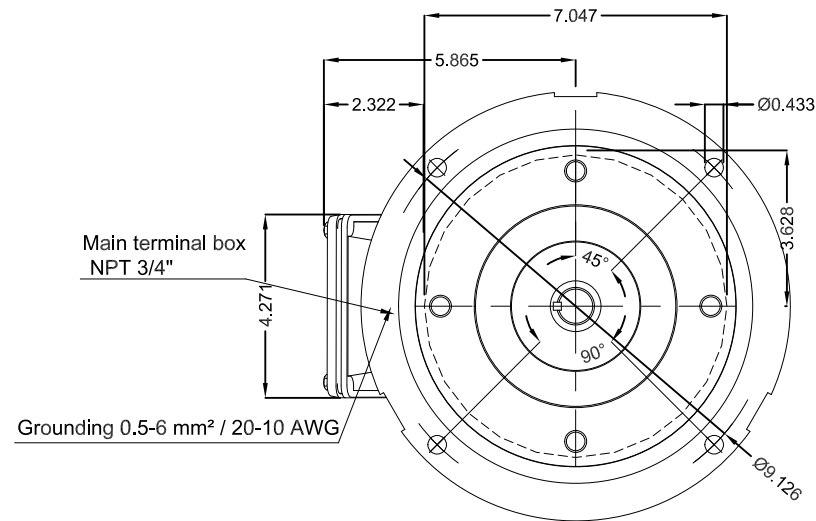


Performance : 208 V 60 Hz 4P

Rated current : 4.36 A
LRC : 8.4
Rated torque : 0.620 kgfm
Locked rotor torque : 290 %
Breakdown torque : 350 %
Rated speed : 1755 rpm

Moment of inertia (J) : 0.0060 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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DE Shaft End

0.187

0.8750

0.187

0.771

1.5 HP 04 Poles 60 Hz										A
							HYBRISUSER			00
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER	
EXECUTED	HYBRISUSER		THREE PH. MOTOR W22 P. BASE NEMA PREM. EFF. FRAME 145HP IP55 TEFC			PREVIEW WDD 00				
CHECKED										
RELEASED										
REL. DATE										
						SHEET /				