

DATA SHEET



Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 JM Pump Single-Phase

Product code : 14184284

Frame	: 143/5JM	Locked rotor time	: 12s (cold) 7s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 115/208-230 V	Altitude	: 1000 m.a.s.l.
Rated current	: 25.0/13.6-12.5 A	Protection degree	: IP55
L. R. Amperes	: 180/97.9-90.0 A	Cooling method	: IC411 - TEFC
LRC	: 7.2x(Code H)	Mounting	: F-1
No load current	: 5.80/2.50-2.90 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3515 rpm	Noise level ²	: 69.0 dB(A)
Slip	: 2.36 %	Starting method	: Direct On Line
Rated torque	: 0.619 kgfm	Approx. weight ³	: 32.8 kg
Locked rotor torque	: 220 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0028 kgm ²		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	70.2	72.5	76.0	78.5	Max. traction	: 26 kgf
Power Factor	0.72	0.96	0.97	0.97	Max. compression	: 58 kgf

	Drive end	Non drive end
Bearing type	: 6206 ZZ	6203 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

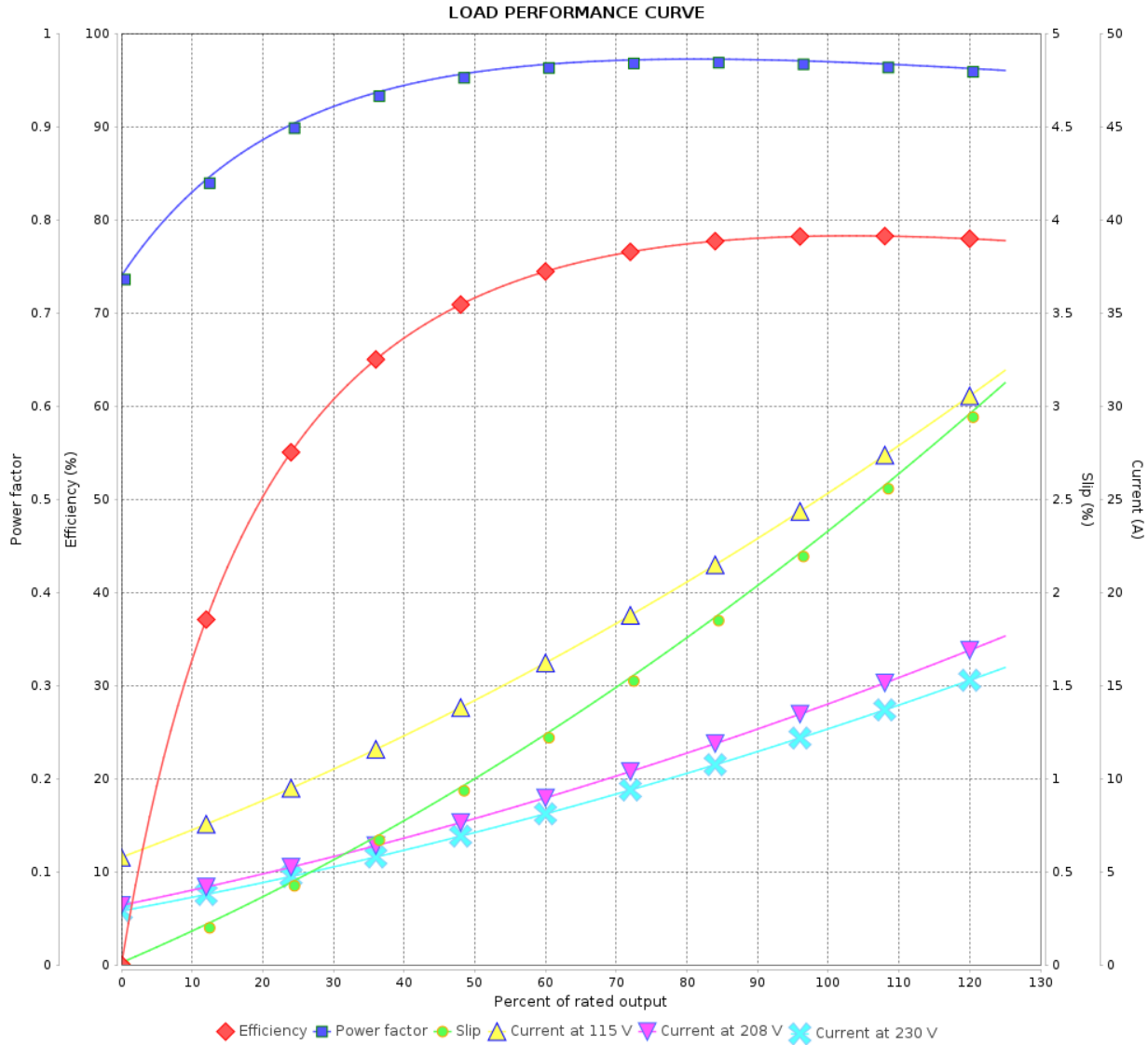
Single Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 JM Pump Single-Phase

Product code : 14184284



Performance : 115/208-230 V 60 Hz 2P

Rated current : 25.0/13.6-12.5 A
 LRC : 7.2
 Rated torque : 0.619 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 240 %
 Rated speed : 3515 rpm

Moment of inertia (J) : 0.0028 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

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