

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Single-Phase

Product code : 13985856

Frame : 213/5T
 Output : 3 HP (2.2 kW)
 Poles : 6
 Frequency : 60 Hz
 Rated voltage : 115/208-230 V
 Rated current : 31.0/17.3-15.5 A
 L. R. Amperes : 164/91.7-82.1 A
 LRC : 5.3x(Code G)
 No load current : 13.2/6.50-6.60 A
 Rated speed : 1160 rpm
 Slip : 3.33 %
 Rated torque : 1.88 kgfm
 Locked rotor torque : 155 %
 Breakdown torque : 160 %
 Insulation class : F
 Service factor : 1.00
 Moment of inertia (J) : 0.0541 kgm²

Locked rotor time : 10s (cold) 6s (hot)
 Temperature rise : 105 K
 Duty cycle : Cont.(S1)
 Ambient temperature : -20°C to +40°C
 Altitude : 1000 m.a.s.l.
 Protection degree : IP55
 Cooling method : IC411 - TEFC
 Mounting : F-1
 Rotation¹ : Both (CW and CCW)
 Starting method : Direct On Line
 Approx. weight³ : 66.0 kg

Output	25%	50%	75%	100%
Efficiency (%)	0.000	60.7	68.8	70.6
Power Factor	0.00	0.81	0.88	0.90

Foundation loads
 Max. traction : 22 kgf
 Max. compression : 88 kgf

	Drive end	Non drive end
Bearing type	6308 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

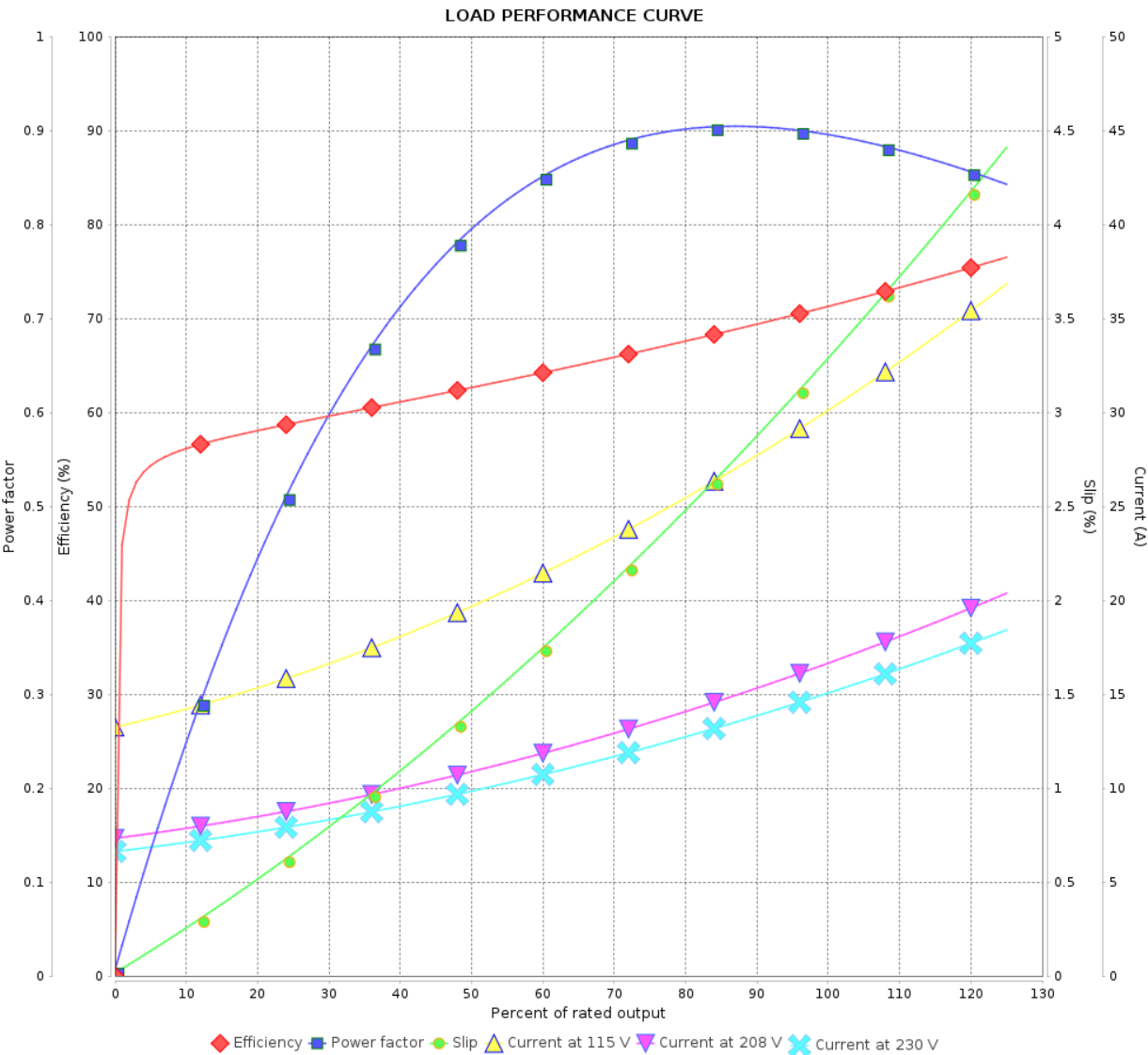
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Rated speed : 1160 rpm

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Service factor : 1.00
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