DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Close Coupled Pump NEMA Premium Efficiency Three-Phase	Product code :	11169048

Frame	: 286JM	Locked rotor time	: 41s (cold) 23s (hot)
Output	: 40 HP (30 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 37.7 A	Protection degree	: IP23
L. R. Amperes	: 241 A	Cooling method	: IC01 - ODP
LRC	: 6.4x(Code G)	Mounting	: F-1
No load current	: 12.8 A	Rotation¹	: Both (CW and CCW)
Rated speed	: 3550 rpm	Noise level²	: 73.0 dB(A)
Slip	: 1.39 %	Vibration	: A
Rated torque	: 8 kgfm	Starting method	: Direct On Line
Locked rotor torque	: 250 %	Approx. weight³	: 169 kg
Breakdown torque	: 260 %	Painting plan	: 203A (ISO 12944 - C3)
Insulation class	: F	Color	: RAL 5009
Service factor	: 1.15	Design	: B
Moment of inertia (J)	: 0.0993 kgm²		

Output	50%	75%	100%
Efficiency (%)	91.7	93.0	93.0
Power Factor	0.74	0.83	0.86

Foundation loads

Max. traction	: 217 kgf
Max. compression	: 391 kgf

		Drive end	Non drive end
Bearing type	:	6311 Z C3	6211 Z C3
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	18 g	11 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

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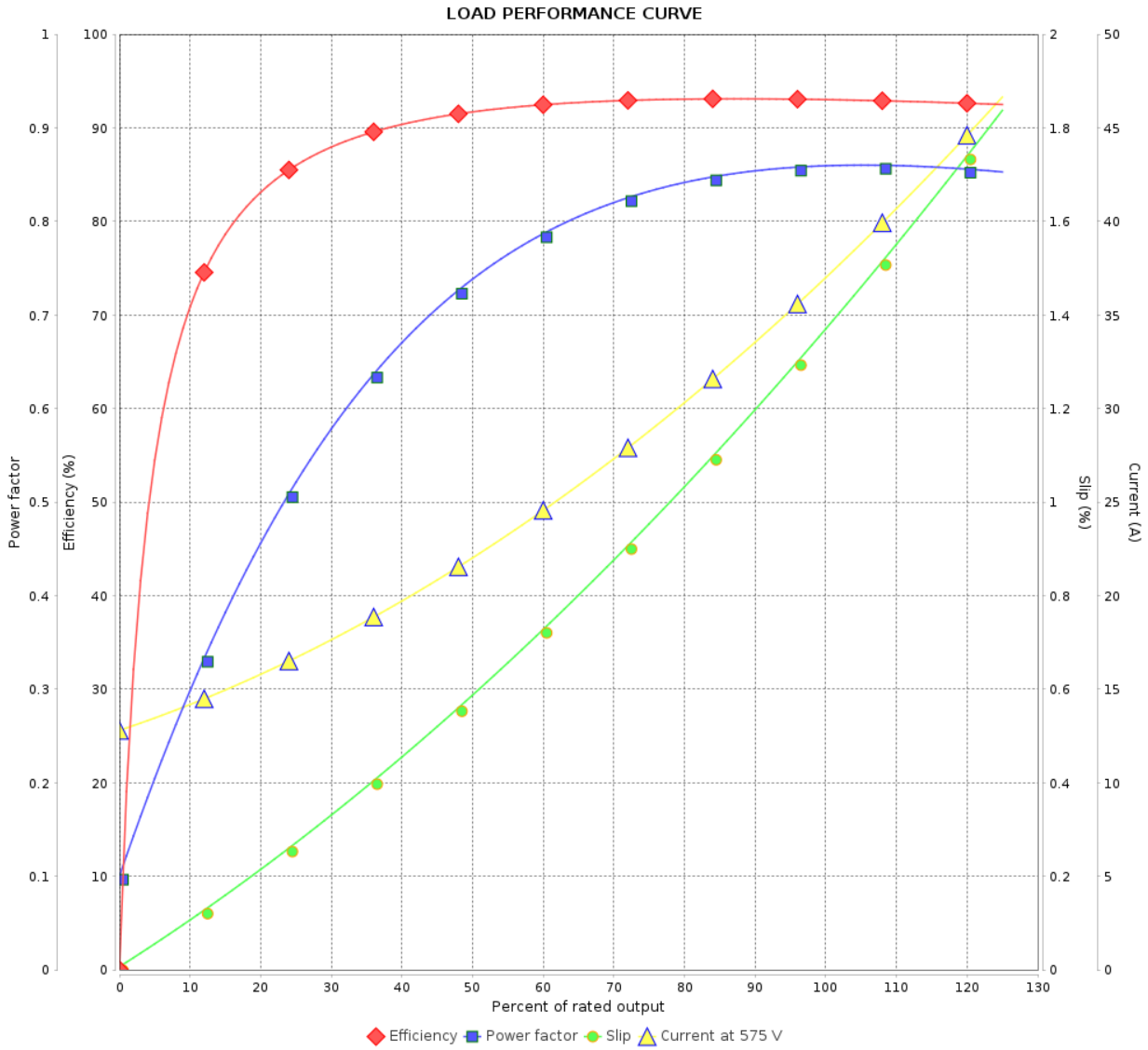
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Close Coupled Pump NEMA Premium Efficiency Three-Phase

Product code : 11169048



Performance	: 575 V 60 Hz 2P		
Rated current	: 37.7 A	Moment of inertia (J)	: 0.0993 kgm²
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 8 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 3550 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

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