DATA SHEET

Single Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: Single-Phase	Product code :	13638771

Frame	: 56HC	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation[1]	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight[3]	: 23.9 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0068 kgm²
Design	: L		

Output [HP]		2
Poles		4
Frequency [Hz]		60
Rated voltage [V]		115/208-230
Rated current [A]		20.0/11.1-10.0
L. R. Amperes [A]		160/88.8-80.0
LRC [A]		8.0x(Code L)
No load current [A]		12.2/5.26-6.10
Rated speed [RPM]		1745
Slip [%]		3.06
Rated torque [kgfm]		0.832
Locked rotor torque [%]		260
Breakdown torque [%]		260
Service factor		
Temperature rise		80 K
Locked rotor time		10s (cold) 6s (hot)
Noise level[2]		54.0 dB(A)
Efficiency (%)	25%	
	50%	70.0
	75%	76.0
	100%	78.5
Power Factor	25%	
	50%	0.66
	75%	0.76
	100%	0.82

		Drive end	Non drive end
Bearing type	:	6204 ZZ	6202 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 56 kgf

Max. compression : 80 kgf

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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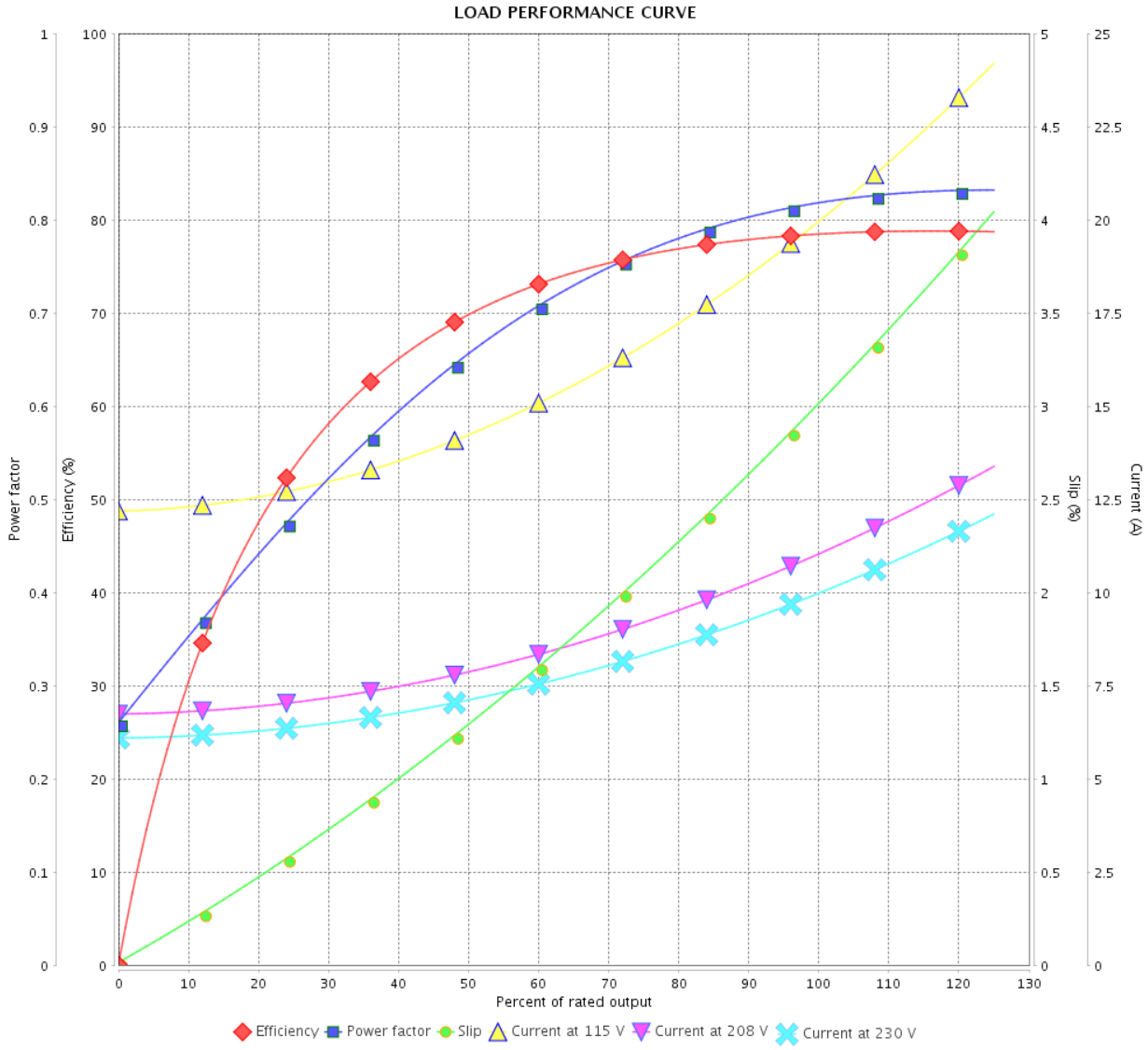

Performance	: 115/208-230 V 60 Hz 4P		
Rated current	: 20.0/11.1-10.0 A	Moment of inertia (J)	: 0.0068 kgm²
LRC	: 8.0	Duty cycle	: Cont.(S1)
Rated torque	: 0.832 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	:
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1745 rpm	Design	: L

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