

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency Three-Phase Product code : 16521005

Frame	: 254/6TC	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	: 92.3 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0985 kgm²
Design	: B		

Output [HP]	7.5	7.5	7.5
Poles	6	6	6
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190-220/380	415
Rated current [A]	20.0/9.98	24.0-20.7/12.0	11.3
L. R. Amperes [A]	108/53.9	101-87.1/50.4	57.6
LRC [A]	5.4x(Code G)	4.2x(Code D)	5.1x(Code F)
No load current [A]	10.1/5.03	9.92-8.56/4.96	5.64
Rated speed [RPM]	1175	965	975
Slip [%]	2.08	3.50	2.50
Rated torque [kgfm]	4.63	5.64	5.58
Locked rotor torque [%]	200	150	190
Breakdown torque [%]	229	180	220
Service factor	1.15	1.00	1.00
Temperature rise	80 K	105 K	105 K
Locked rotor time	75s (cold) 42s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	59.0 dB(A)	57.0 dB(A)	57.0 dB(A)
Efficiency (%)	25%		
	50%	89.5	89.4
	75%	89.5	89.8
	100%	91.0	89.0
Power Factor	25%		
	50%	0.58	0.58
	75%	0.70	0.70
	100%	0.76	0.76

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6309 Z C3	6208 Z C3	Max. traction : 142 kgf
Sealing	: V'Ring	Without Bearing Seal	Max. compression : 244 kgf
Lubrication interval	: 20000 h	20000 h	
Lubricant amount	: 13 g	8 g	
Lubricant type	: Mobil Polyrex EM		

Notes

USABLE @208V 22.1A SF 1.00 SFA 22.1A

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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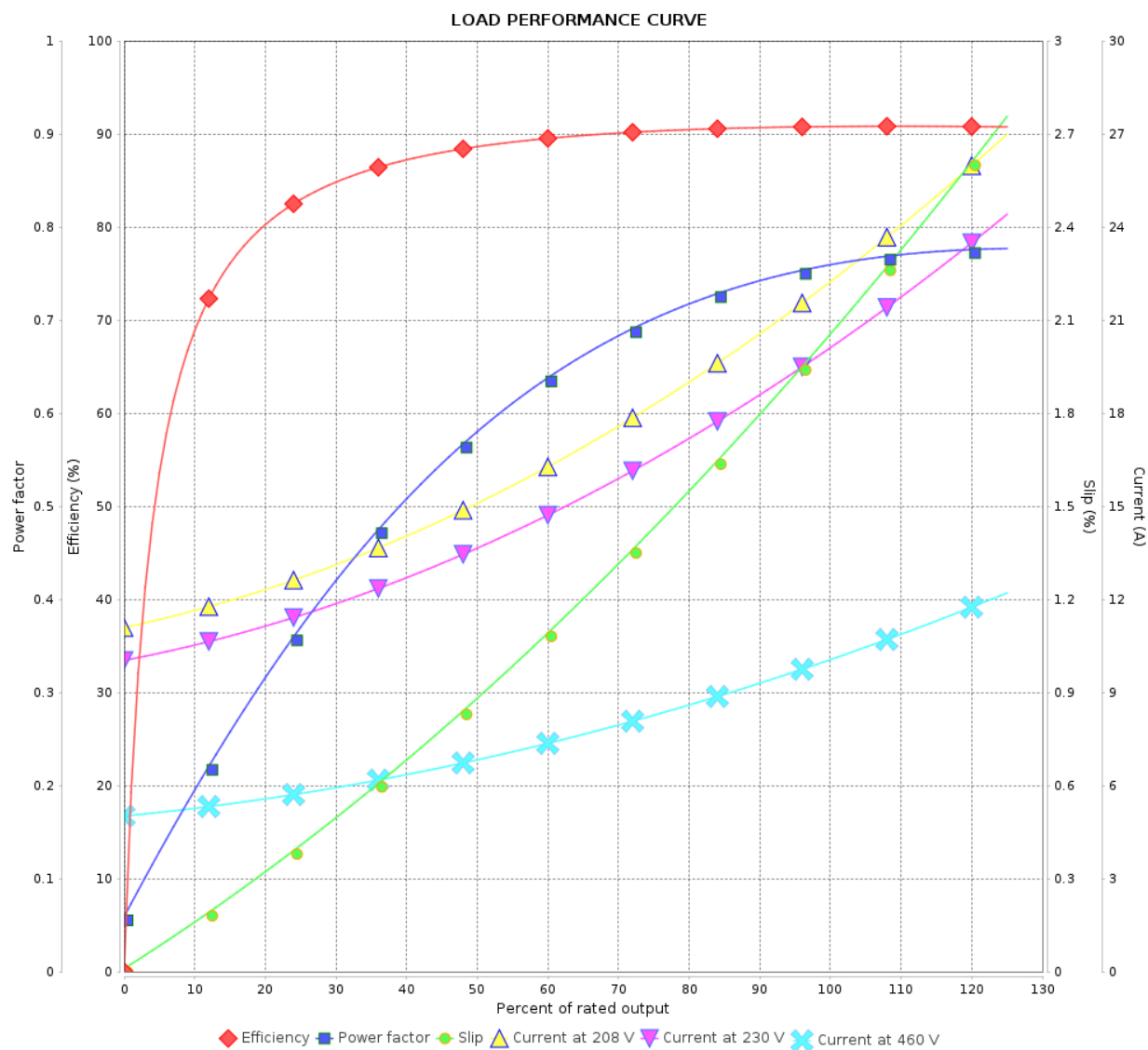
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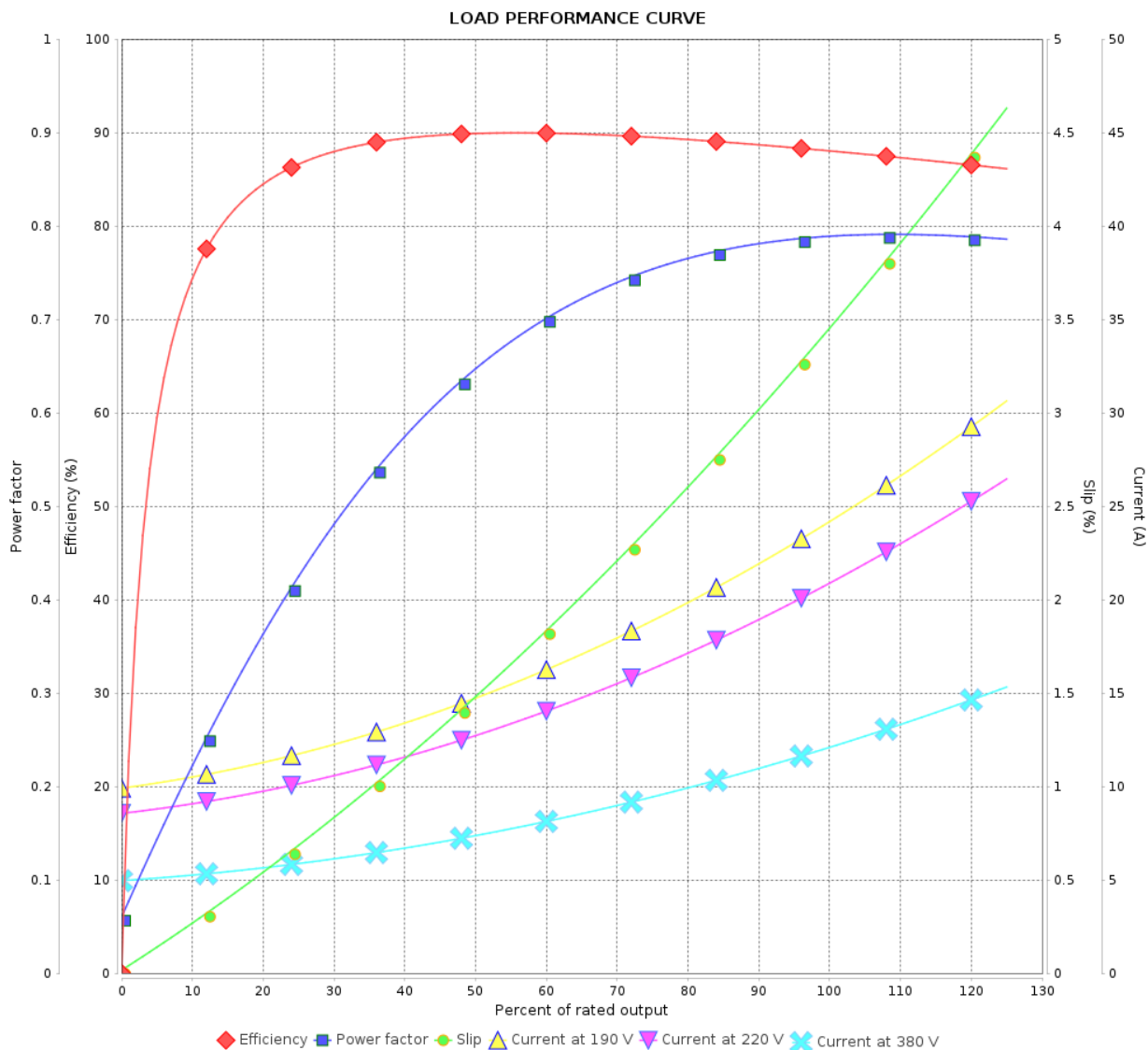
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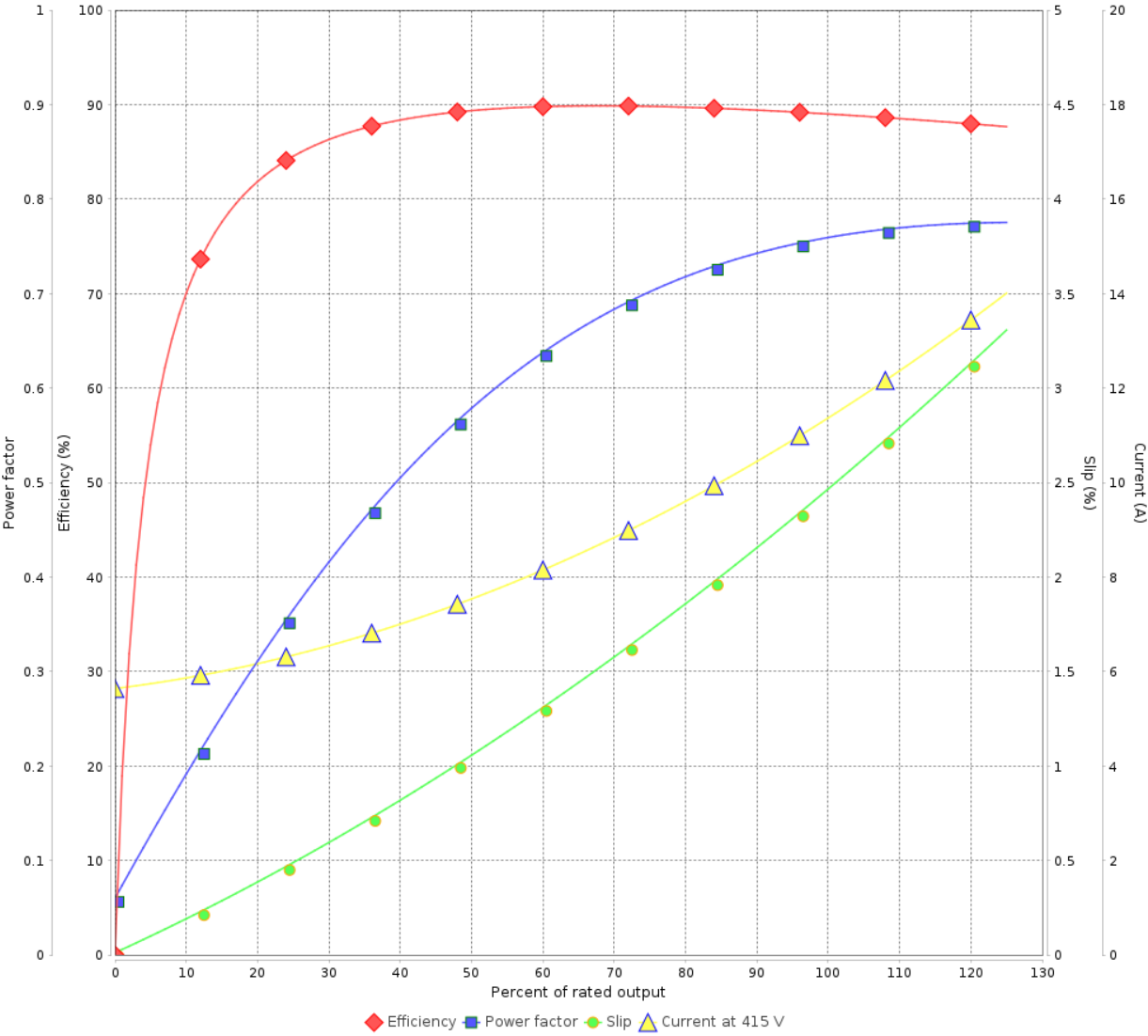
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