

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13731251

Frame	: W56C	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	: 6.8 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0005 kgm ²

Output [HP]	0.33	0.33	0.33
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	1.45-1.31/0.657	1.44/0.718	1.34/0.708
L. R. Amperes [A]	8.86-8.02/4.01	6.46/3.23	6.68/3.54
LRC [A]	6.1x(Code L)	4.5x(Code H)	5.0x(Code J)
No load current [A]	0.731-0.848/0.424	0.822/0.411	0.939/0.498
Rated speed [RPM]	3425	2755	2805
Slip [%]	4.86	8.17	6.50
Rated torque [kgfm]	0.070	0.087	0.085
Locked rotor torque [%]	290	220	270
Breakdown torque [%]	300	229	280
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	50s (cold) 28s (hot)	59s (cold) 33s (hot)	52s (cold) 29s (hot)
Noise level ²	65.0 dB(A)	64.0 dB(A)	64.0 dB(A)
Efficiency (%)	25%		
	50%	52.5	57.0
	75%	59.5	62.0
	100%	62.0	63.0
Power Factor	25%		
	50%	0.60	0.66
	75%	0.70	0.77
	100%	0.77	0.84

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6203 ZZ	6202 ZZ	Max. traction : 4 kgf
Sealing	: V'Ring	V'Ring	Max. compression : 11 kgf
Lubrication interval	: -	-	
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

Notes
USABLE @208V SF 1.00

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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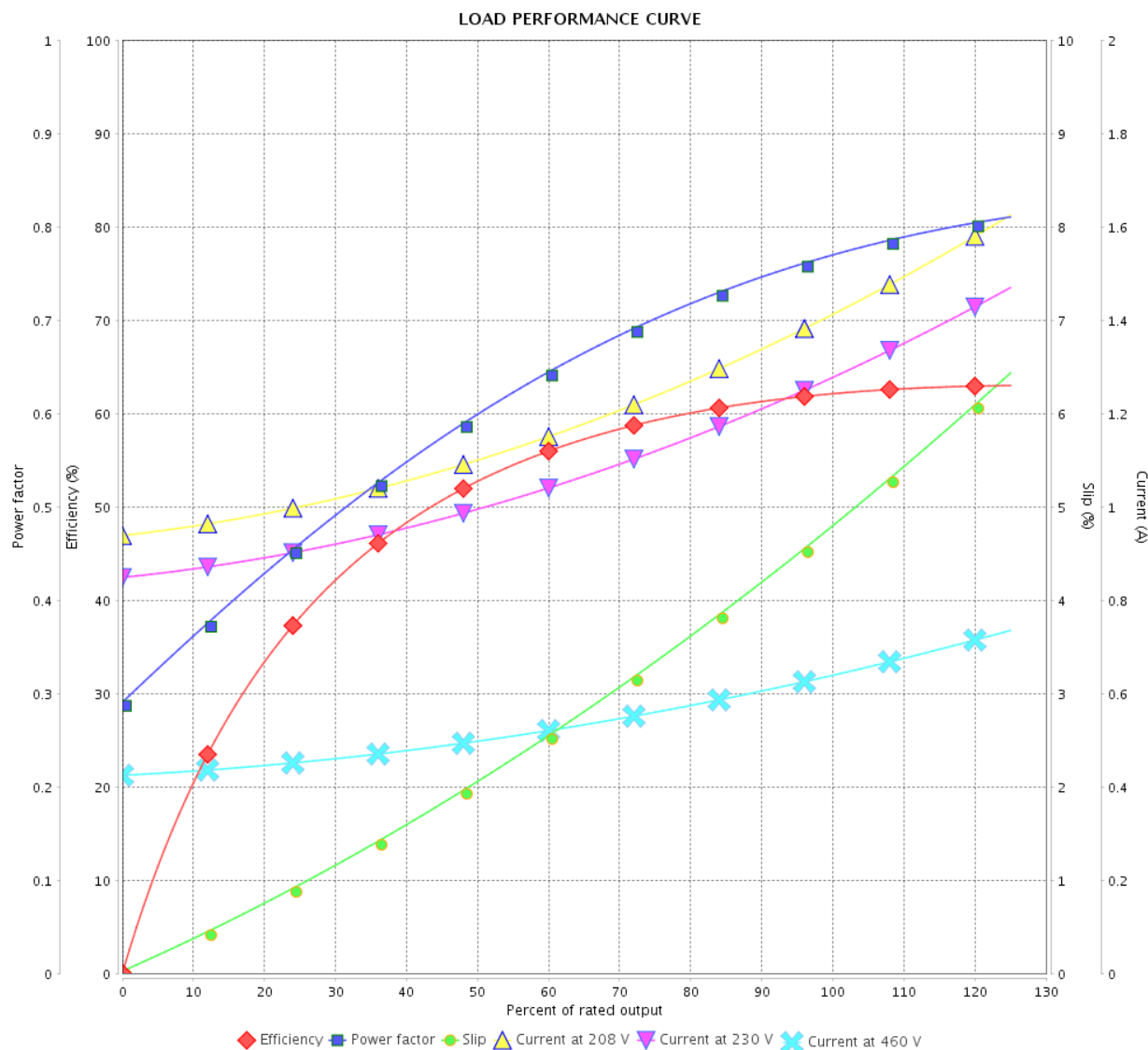
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13731251



Performance : 208-230/460 V 60 Hz 2P

Rated current : 1.45-1.31/0.657 A
 LRC : 6.1
 Rated torque : 0.070 kgfm
 Locked rotor torque : 290 %
 Breakdown torque : 300 %
 Rated speed : 3425 rpm

Moment of inertia (J) : 0.0005 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

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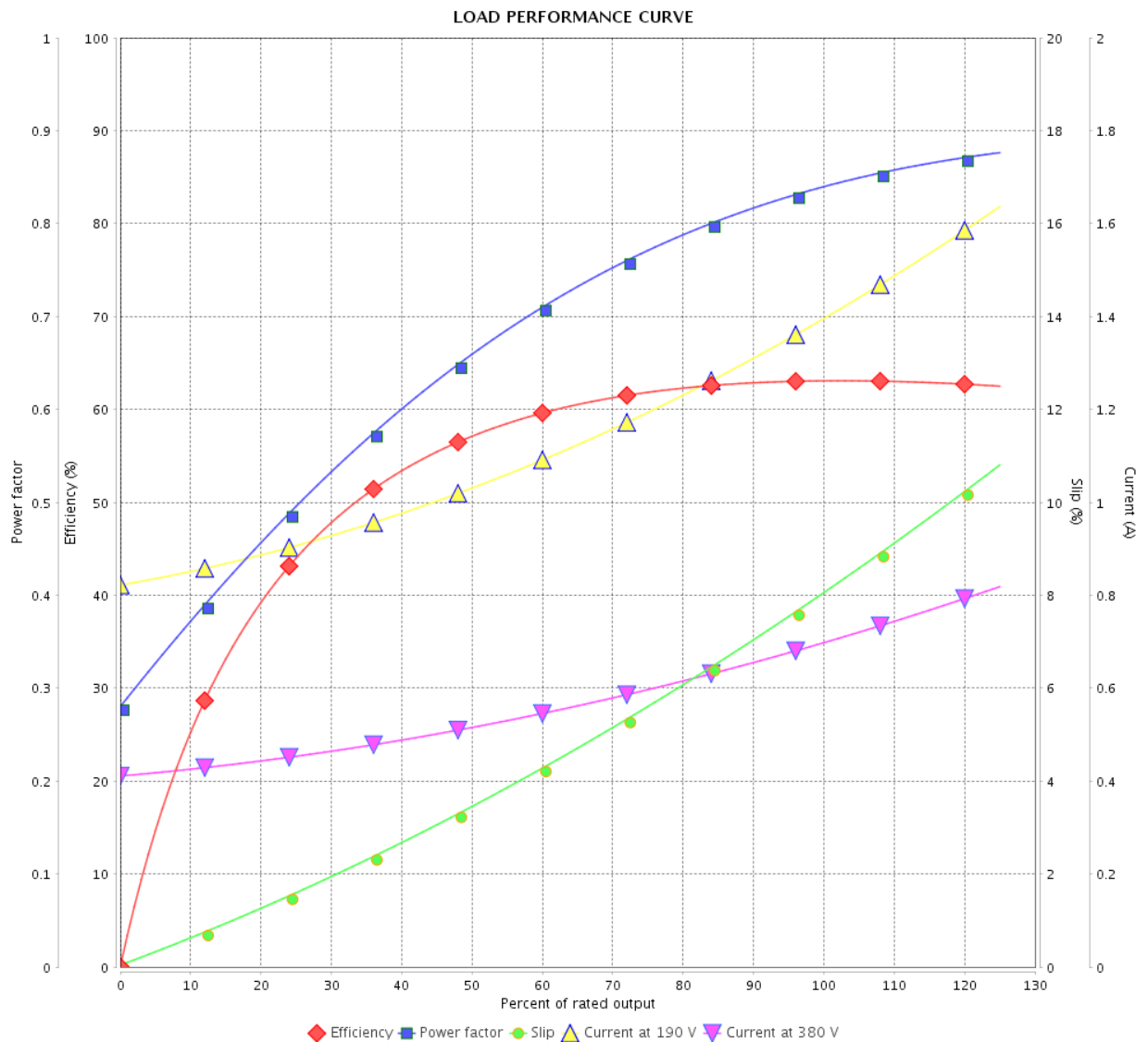
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13731251



Performance : 190/380 V 50 Hz 2P

Rated current : 1.44/0.718 A
 LRC : 4.5
 Rated torque : 0.087 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 229 %
 Rated speed : 2755 rpm

Moment of inertia (J) : 0.0005 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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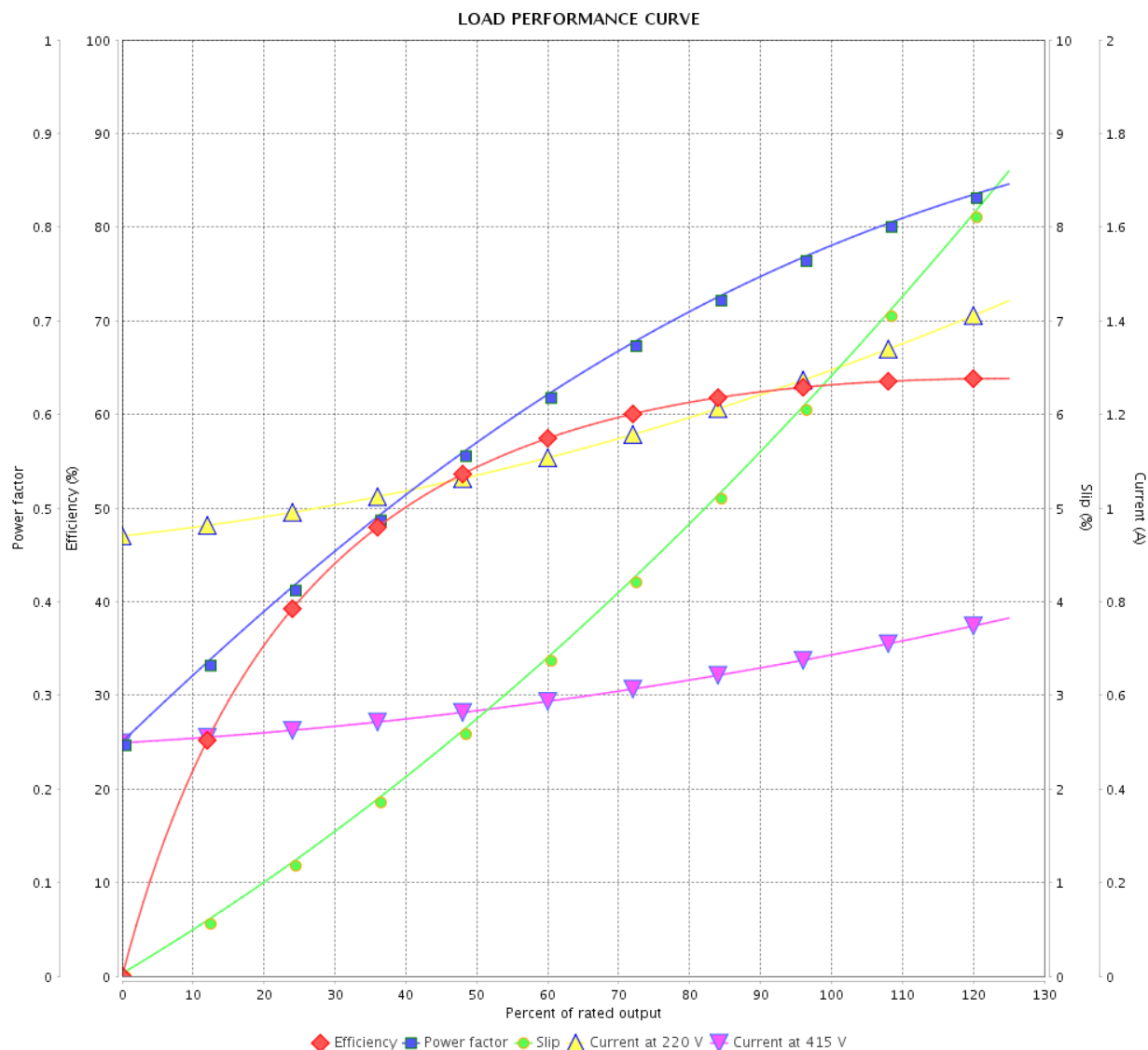
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13731251



Performance : 220/415 V 50 Hz 2P

Rated current : 1.34/0.708 A
 LRC : 5.0
 Rated torque : 0.085 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 280 %
 Rated speed : 2805 rpm

Moment of inertia (J) : 0.0005 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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