

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 13484346

Frame	: 56C	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	: 16.5 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0046 kgm ²
Design	: B		

Output [HP]	1.5	1.5	1.5
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190-220/380	415
Rated current [A]	4.04/2.02	4.82-4.16/2.41	2.27
L. R. Amperes [A]	33.1/16.6	29.4-25.4/14.7	16.3
LRC [A]	8.2x(Code K)	6.1x(Code H)	7.2x(Code J)
No load current [A]	2.17/1.08	2.13-1.84/1.07	1.26
Rated speed [RPM]	1750	1420	1435
Slip [%]	2.78	5.33	4.33
Rated torque [kgfm]	0.622	0.767	0.759
Locked rotor torque [%]	270	210	260
Breakdown torque [%]	300	250	300
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	37s (cold) 21s (hot)	36s (cold) 20s (hot)	32s (cold) 18s (hot)
Noise level ²	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%		
	50%	85.5	83.5
	75%	86.5	84.9
	100%	86.5	84.1
Power Factor	25%		
	50%	0.59	0.59
	75%	0.72	0.72
	100%	0.79	0.80

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	: 6204 ZZ	6202 ZZ	Max. traction	: 65 kgf
Sealing	: V'Ring	Without	Max. compression	: 81 kgf
		Bearing Seal		
Lubrication interval	: -	-		
Lubricant amount	: -	-		
Lubricant type	: Mobil Polyrex EM			

Notes

USABLE @208V 4.47A SF 1.00 SFA 4.47A

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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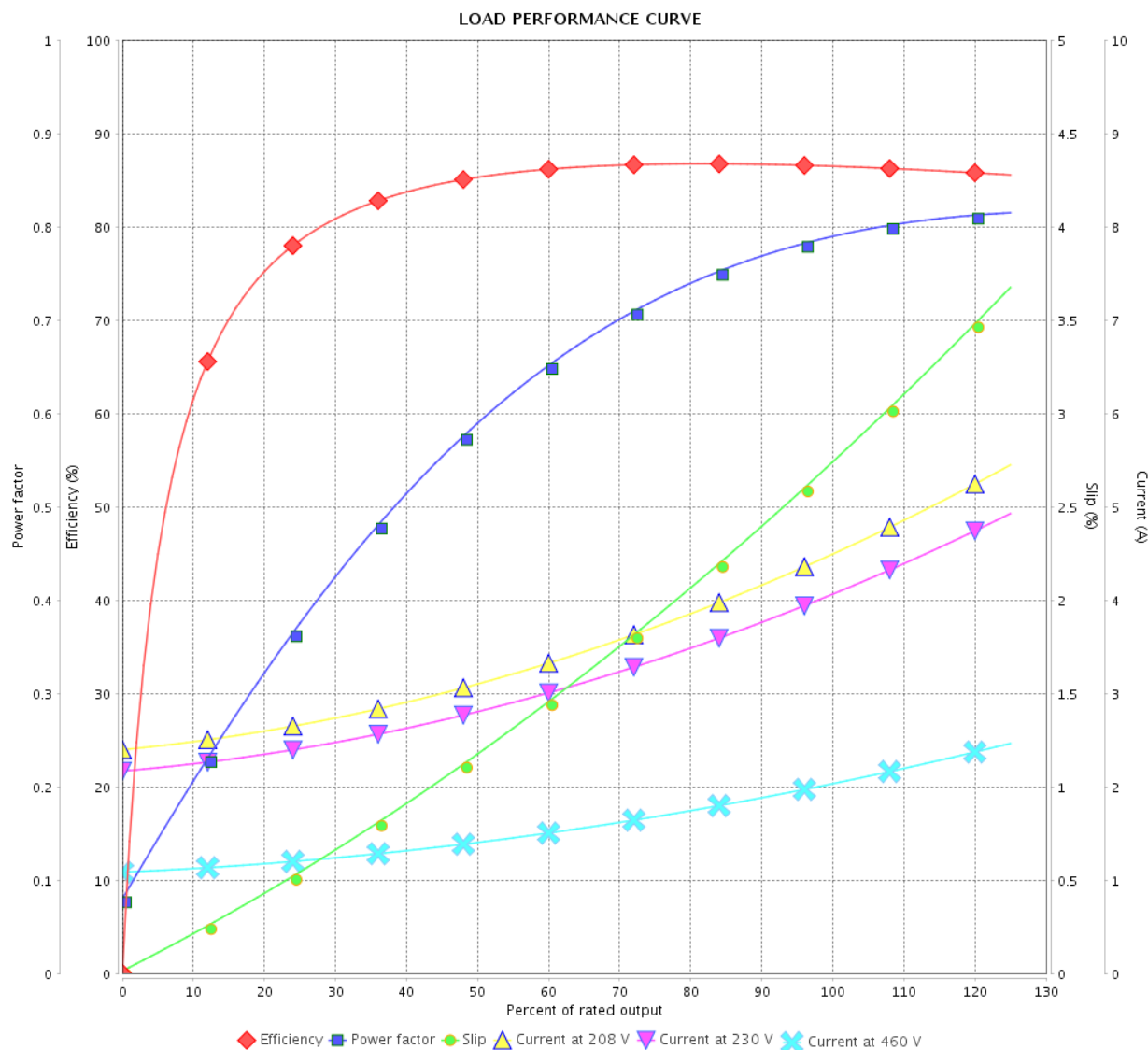
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 13484346



Performance : 230/460 V 60 Hz 4P

Rated current : 4.04/2.02 A
 LRC : 8.2
 Rated torque : 0.622 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 300 %
 Rated speed : 1750 rpm

Moment of inertia (J) : 0.0046 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : B

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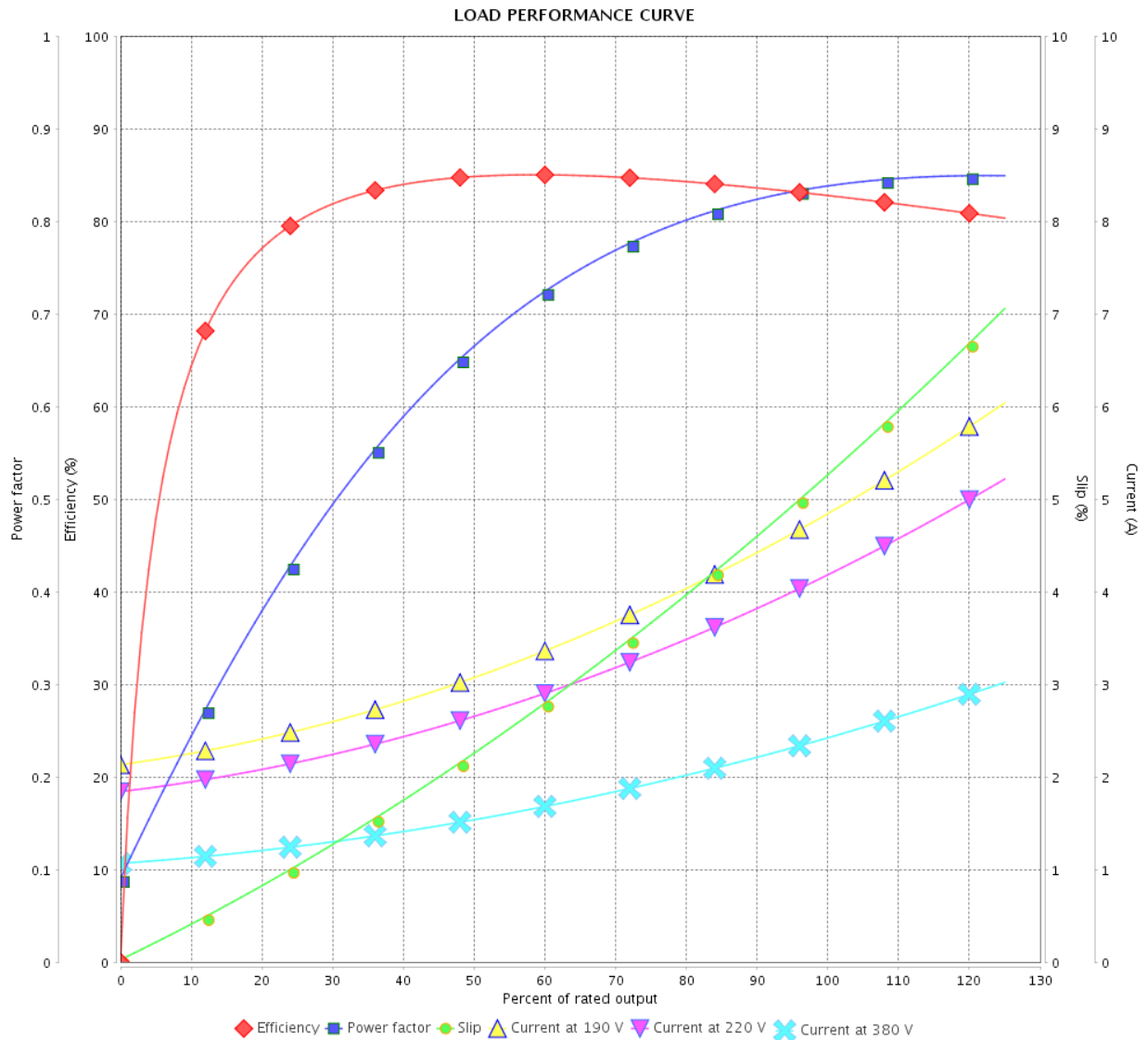
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 13484346



Performance : 190-220/380 V 50 Hz 4P

Rated current : 4.82-4.16/2.41 A
 LRC : 6.1
 Rated torque : 0.767 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 250 %
 Rated speed : 1420 rpm

Moment of inertia (J) : 0.0046 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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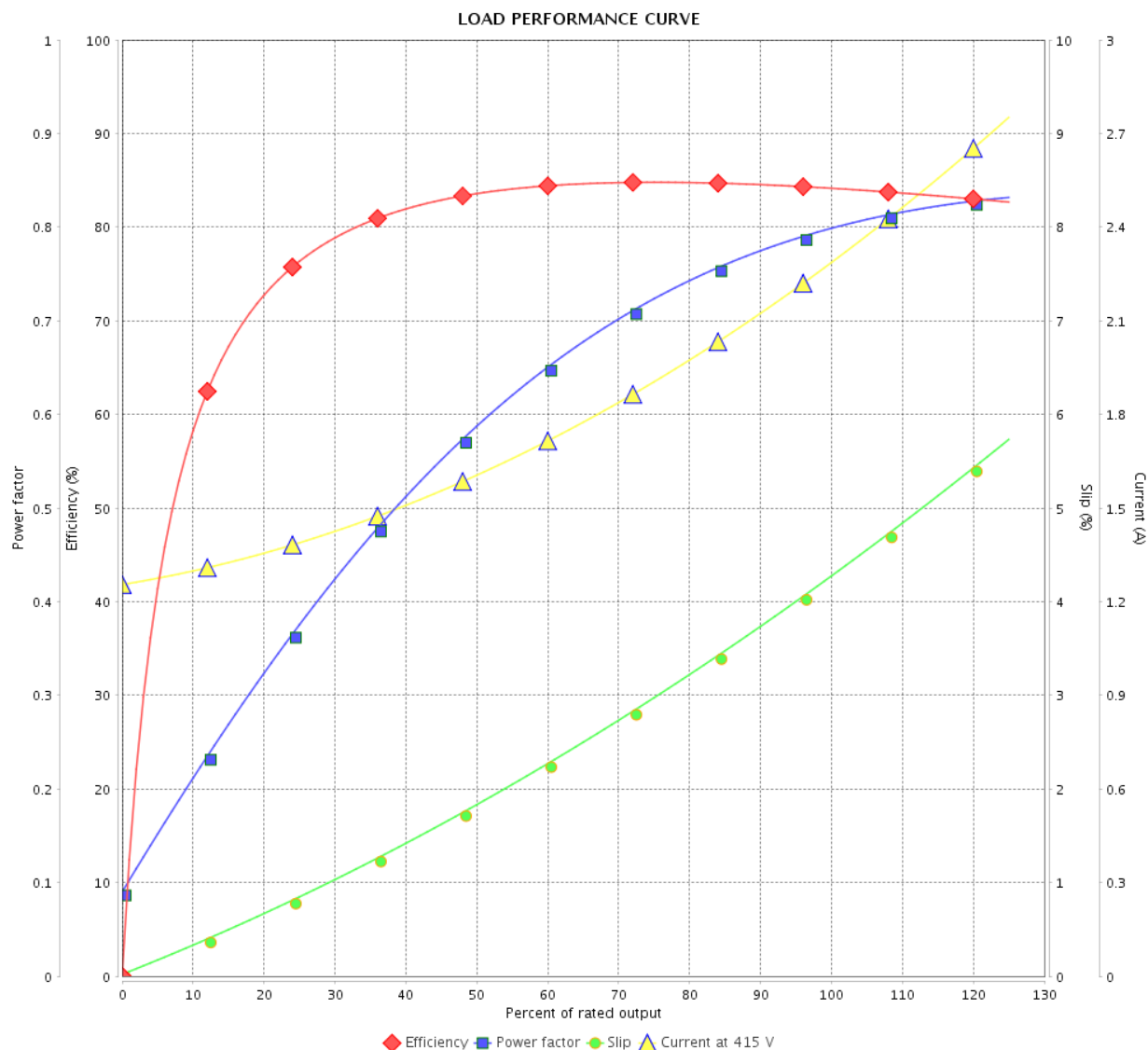
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 13484346



Performance : 415 V 50 Hz 4P

Rated current : 2.27 A
LRC : 7.2
Rated torque : 0.759 kgfm
Locked rotor torque : 260 %
Breakdown torque : 300 %
Rated speed : 1435 rpm

Moment of inertia (J) : 0.0046 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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