

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13796422

Frame	: W56	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)	: 0.0012 kgm ²

Output [HP]	0.25	0.25	0.25
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	1.11-1.01/0.503	1.11/0.554	1.07/0.567
L. R. Amperes [A]	5.88-5.33/2.67	4.88/2.44	5.03/2.66
LRC [A]	5.3x(Code K)	4.4x(Code H)	4.7x(Code J)
No load current [A]	0.716-0.830/0.415	0.812/0.406	0.907/0.481
Rated speed [RPM]	1735	1410	1430
Slip [%]	3.61	6.00	4.67
Rated torque [kgfm]	0.105	0.129	0.127
Locked rotor torque [%]	240	180	220
Breakdown torque [%]	290	220	270
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	54s (cold) 30s (hot)	63s (cold) 35s (hot)	50s (cold) 28s (hot)
Noise level ²	50.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%		
	50%	55.0	52.0
	75%	62.0	60.0
	100%	66.0	64.0
Power Factor	25%		
	50%	0.48	0.47
	75%	0.59	0.59
	100%	0.68	0.69

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6203 ZZ	6202 ZZ	Max. traction : 7 kgf
Sealing	: V'Ring	V'Ring	Max. compression : 14 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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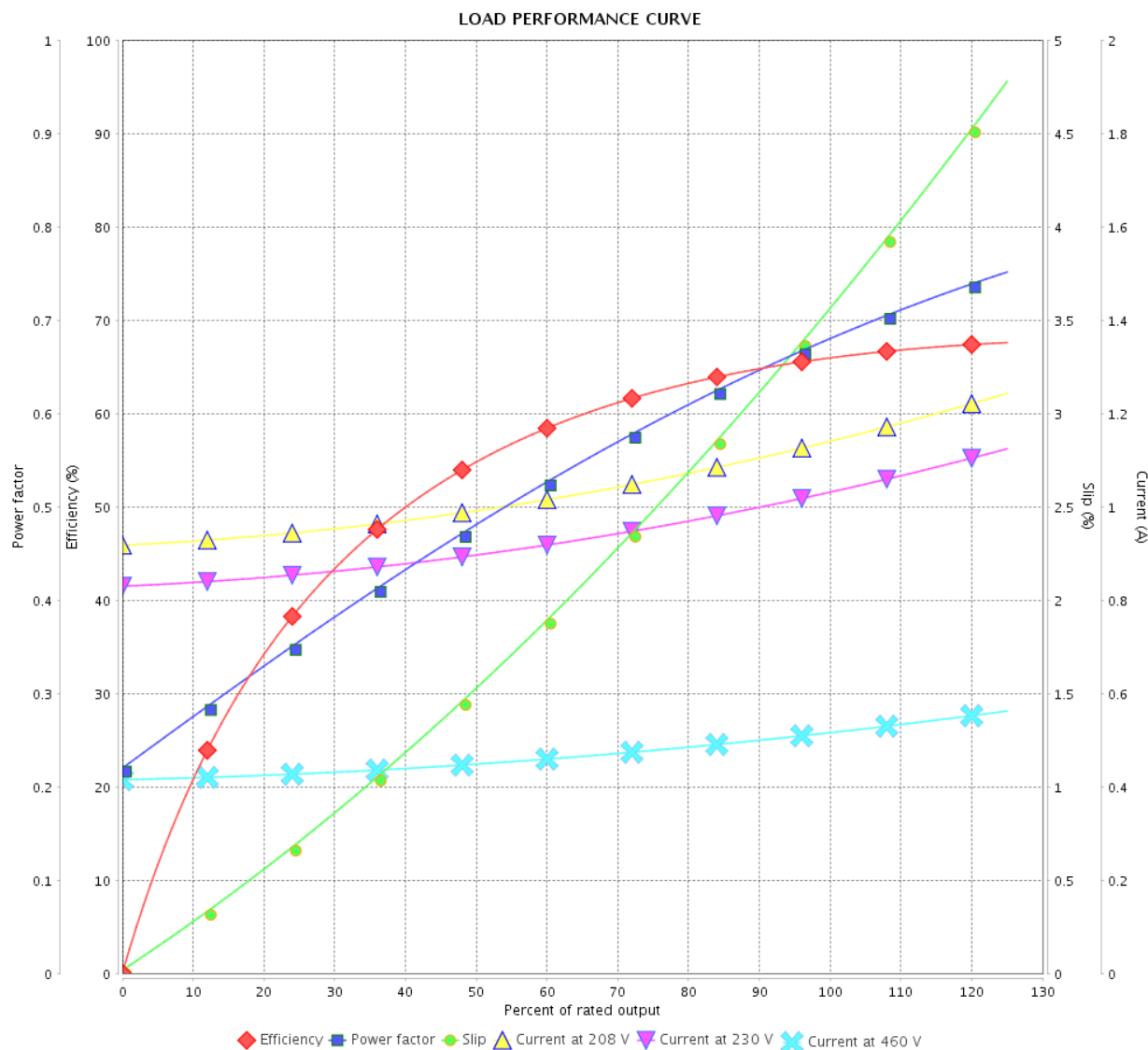
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13796422



Performance : 208-230/460 V 60 Hz 4P

Rated current : 1.11-1.01/0.503 A
 LRC : 5.3
 Rated torque : 0.105 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 290 %
 Rated speed : 1735 rpm

Moment of inertia (J) : 0.0012 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

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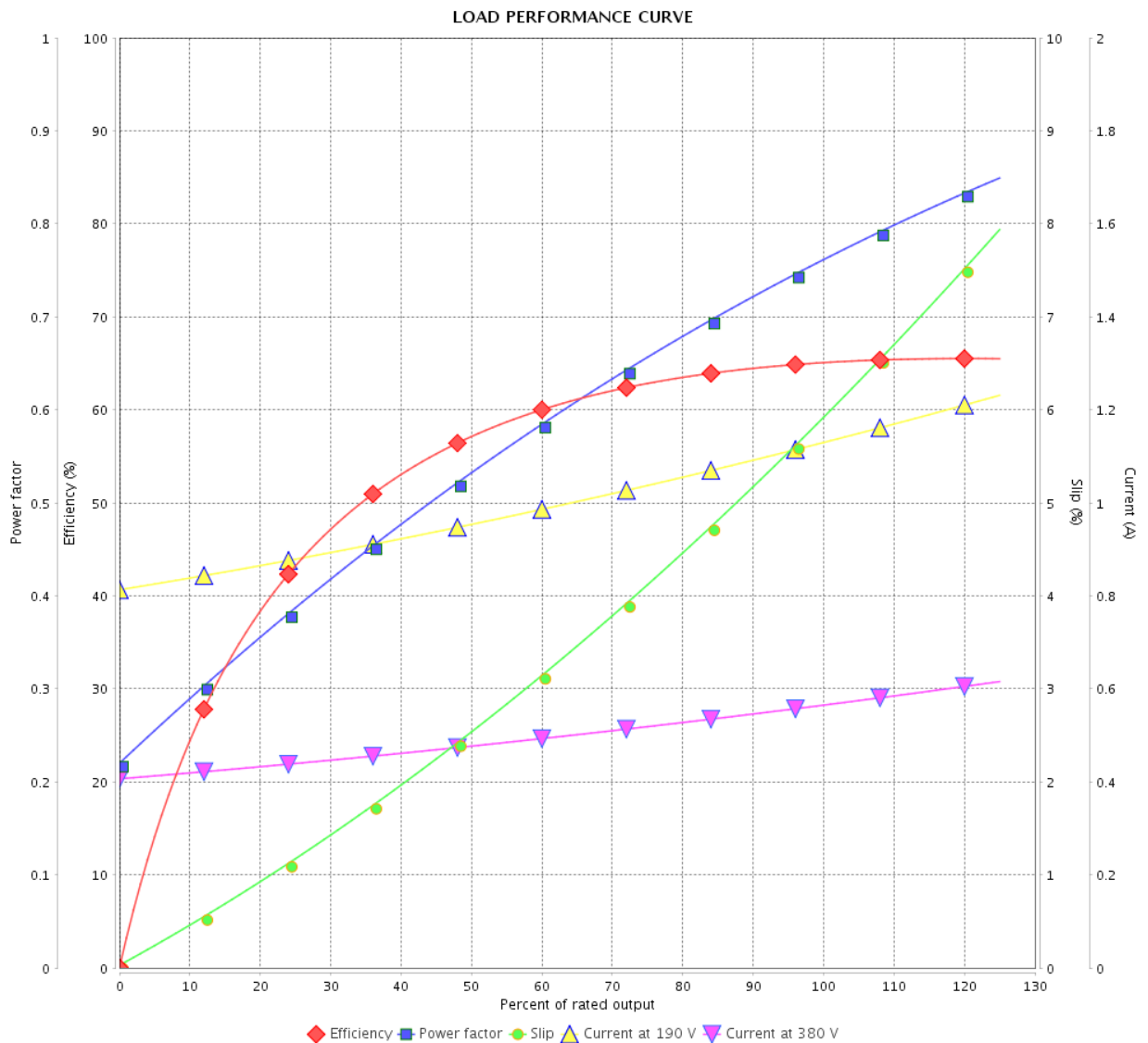
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13796422



Performance : 190/380 V 50 Hz 4P

Rated current : 1.11/0.554 A
 LRC : 4.4
 Rated torque : 0.129 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 220 %
 Rated speed : 1410 rpm

Moment of inertia (J) : 0.0012 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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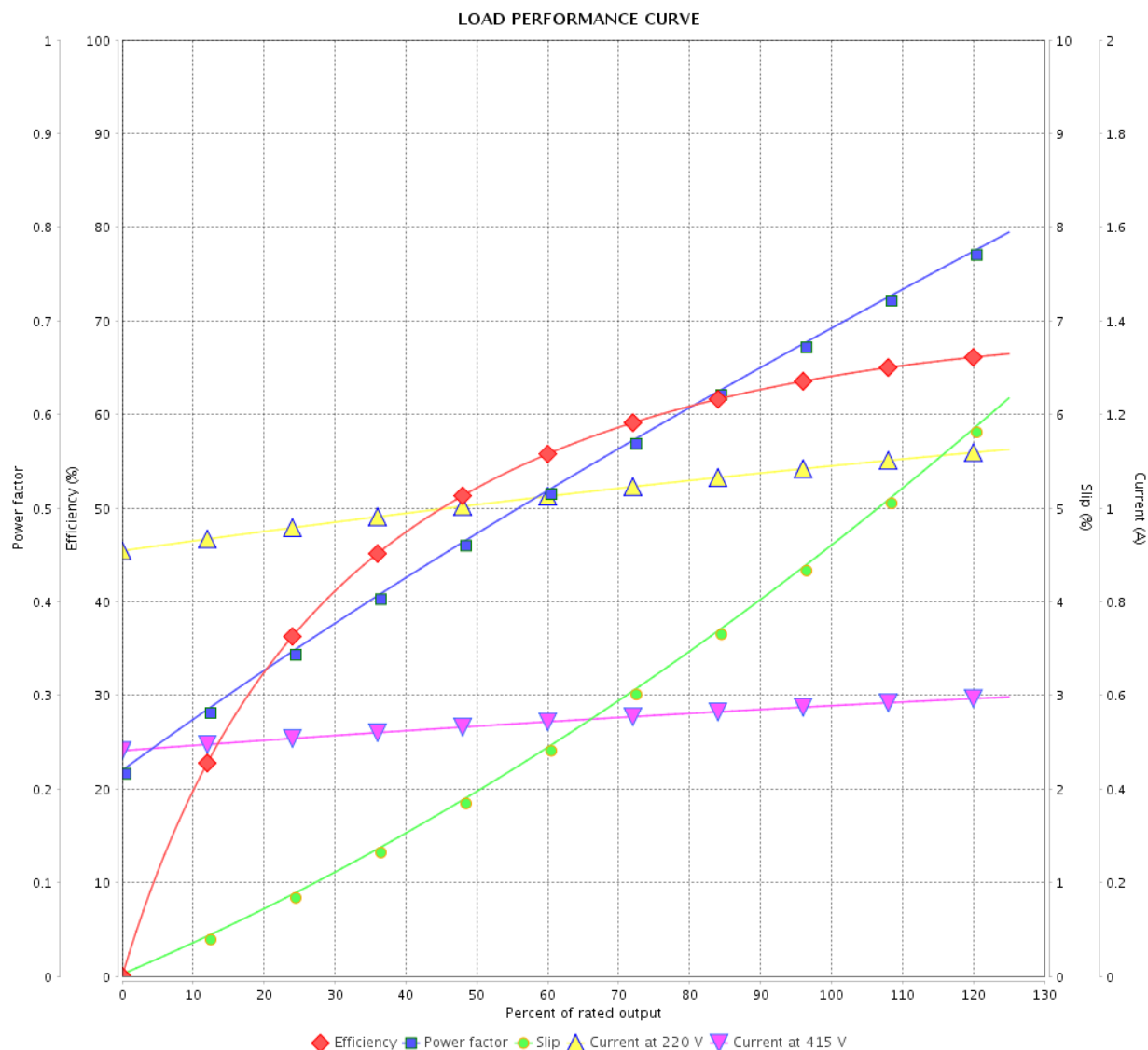
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13796422



Performance : 220/415 V 50 Hz 4P

Rated current : 1.07/0.567 A
 LRC : 4.7
 Rated torque : 0.127 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 270 %
 Rated speed : 1430 rpm

Moment of inertia (J) : 0.0012 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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