

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12894800

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	: 12.3 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0036 kgm ²
Design	: A		

Output [HP]	1	1	1
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	3.32/1.66	3.68/1.84	3.49/1.85
L. R. Amperes [A]	25.6/12.8	23.2/11.6	23.0/12.2
LRC [A]	7.7x(Code M)	6.3x(Code J)	6.6x(Code K)
No load current [A]	2.40/1.20	2.35/1.18	2.57/1.36
Rated speed [RPM]	1760	1445	1450
Slip [%]	2.22	3.67	3.33
Rated torque [kgfm]	0.412	0.502	0.501
Locked rotor torque [%]	270	200	229
Breakdown torque [%]	300	260	290
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	21s (cold) 12s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%	72.4	74.3
	50%	74.0	74.9
	75%	78.5	78.1
	100%	80.0	78.3
Power Factor	25%	0.26	0.32
	50%	0.48	0.57
	75%	0.62	0.71
	100%	0.71	0.79

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	: 6204 ZZ	6202 ZZ	Max. traction	: 40 kgf
Sealing	: V'Ring	Without	Max. compression	: 53 kgf
		Bearing Seal		
Lubrication interval	: -	-		
Lubricant amount	: -	-		
Lubricant type	: Mobil Polyrex EM			

Notes

USABLE @208V 3.67A SF 1.00 SFA 3.67A

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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Revision

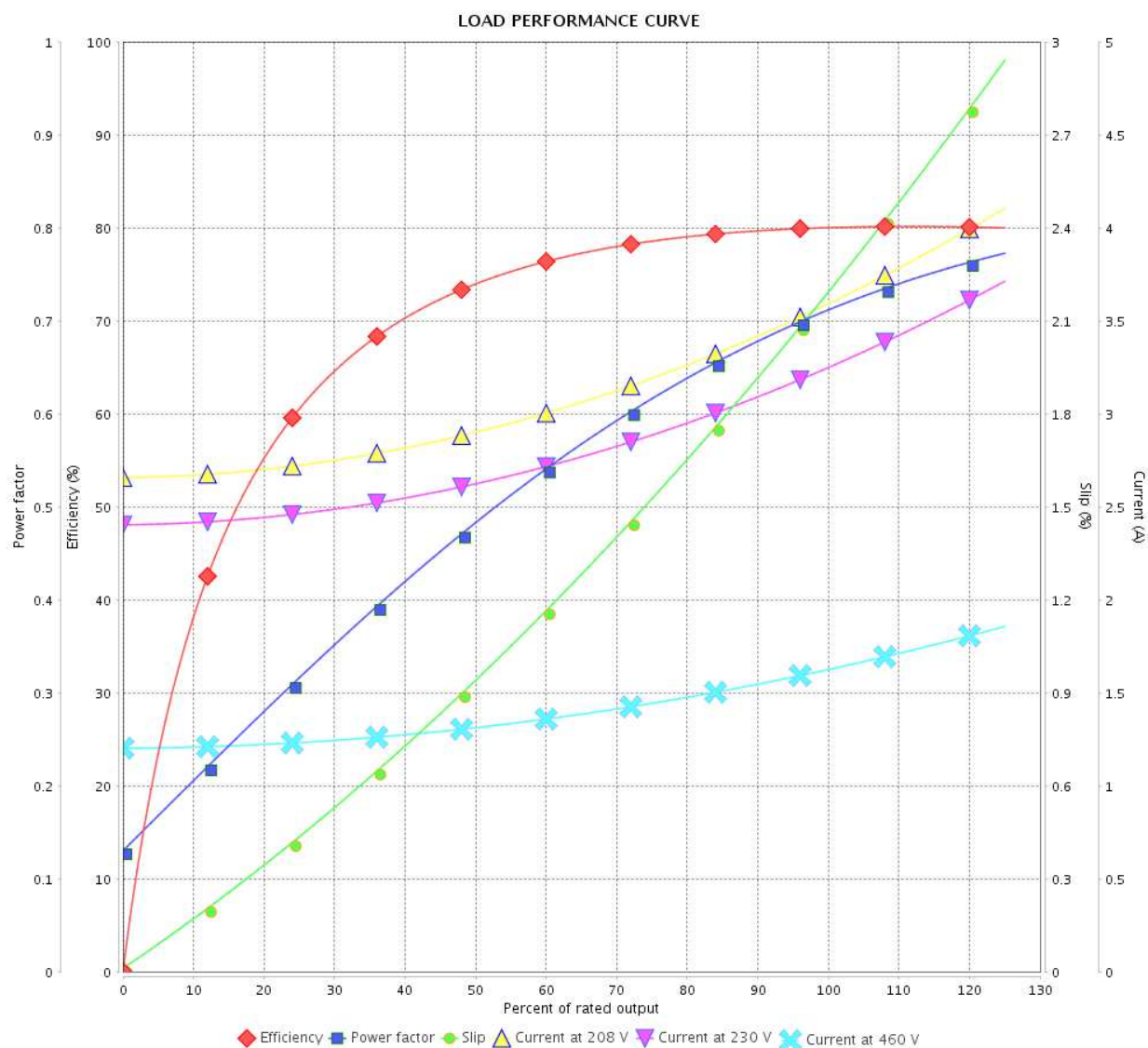
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12894800



Performance : 230/460 V 60 Hz 4P

Rated current : 3.32/1.66 A
 LRC : 7.7
 Rated torque : 0.412 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 300 %
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.0036 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : A

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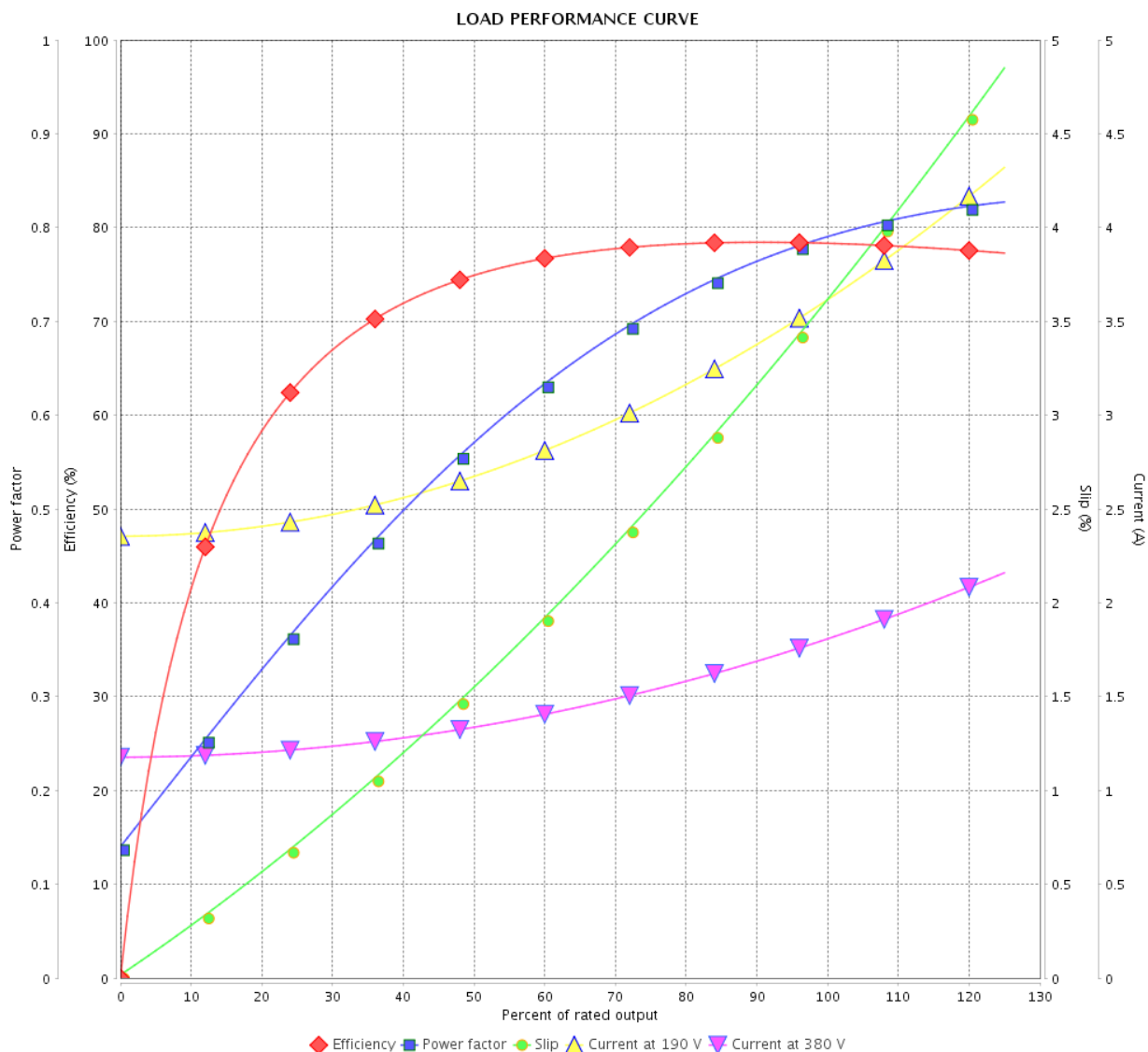
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12894800



Performance : 190/380 V 50 Hz 4P

Rated current : 3.68/1.84 A
 LRC : 6.3
 Rated torque : 0.502 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 260 %
 Rated speed : 1445 rpm

Moment of inertia (J) : 0.0036 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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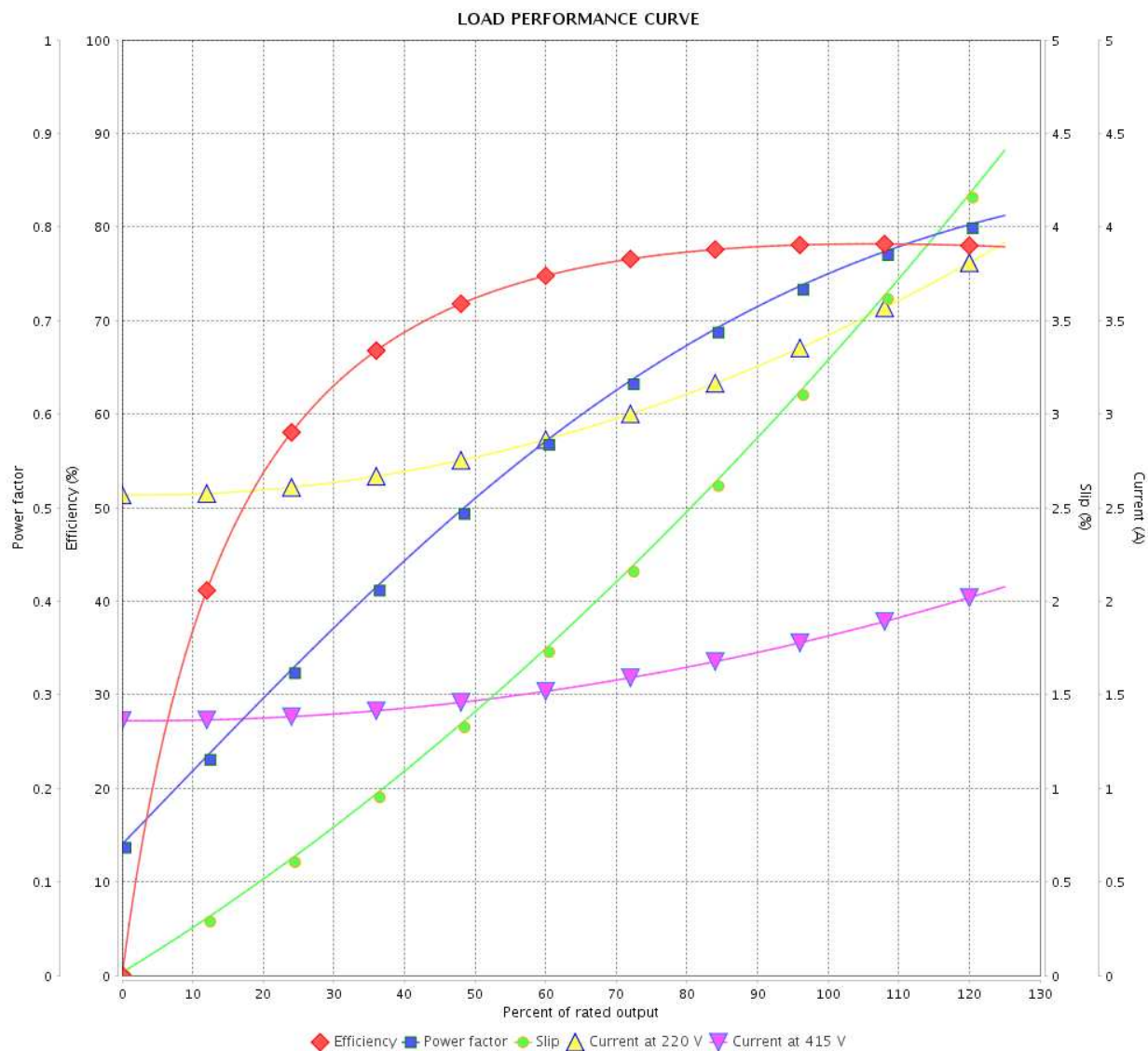
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12894800



Performance : 220/415 V 50 Hz 4P

Rated current : 3.49/1.85 A
 LRC : 6.6
 Rated torque : 0.501 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 290 %
 Rated speed : 1450 rpm

Moment of inertia (J) : 0.0036 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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