

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13417432

Frame	: 56H	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	: 18.3 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0054 kgm ²
Design	: A		

Output [HP]	3	2	2
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	7.52/3.76	6.12/3.06	5.60/2.97
L. R. Amperes [A]	63.9/32.0	60.0/30.0	62.2/33.0
LRC [A]	8.5x(Code K)	9.8x(Code L)	11.1x(Code N)
No load current [A]	2.80/1.40	2.72/1.36	3.17/1.68
Rated speed [RPM]	3480	2905	2920
Slip [%]	3.33	3.17	2.67
Rated torque [kgfm]	0.626	0.500	0.497
Locked rotor torque [%]	270	330	400
Breakdown torque [%]	280	370	450
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	10s (cold) 6s (hot)	12s (cold) 7s (hot)	10s (cold) 6s (hot)
Noise level ²	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%		
	50%	80.0	78.7
	75%	81.5	82.5
	100%	81.5	83.6
Power Factor	25%		
	50%	0.76	0.63
	75%	0.86	0.76
	100%	0.90	0.84

	Drive end	Non drive end	Foundation loads
Bearing type	: 6204 ZZ	6202 ZZ	Max. traction : 63 kgf
Sealing	: V'Ring	V'Ring	Max. compression : 81 kgf
Lubrication interval	: -	-	
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

Notes

USABLE @208V 8.32A SF 1.00 SFA 8.32A

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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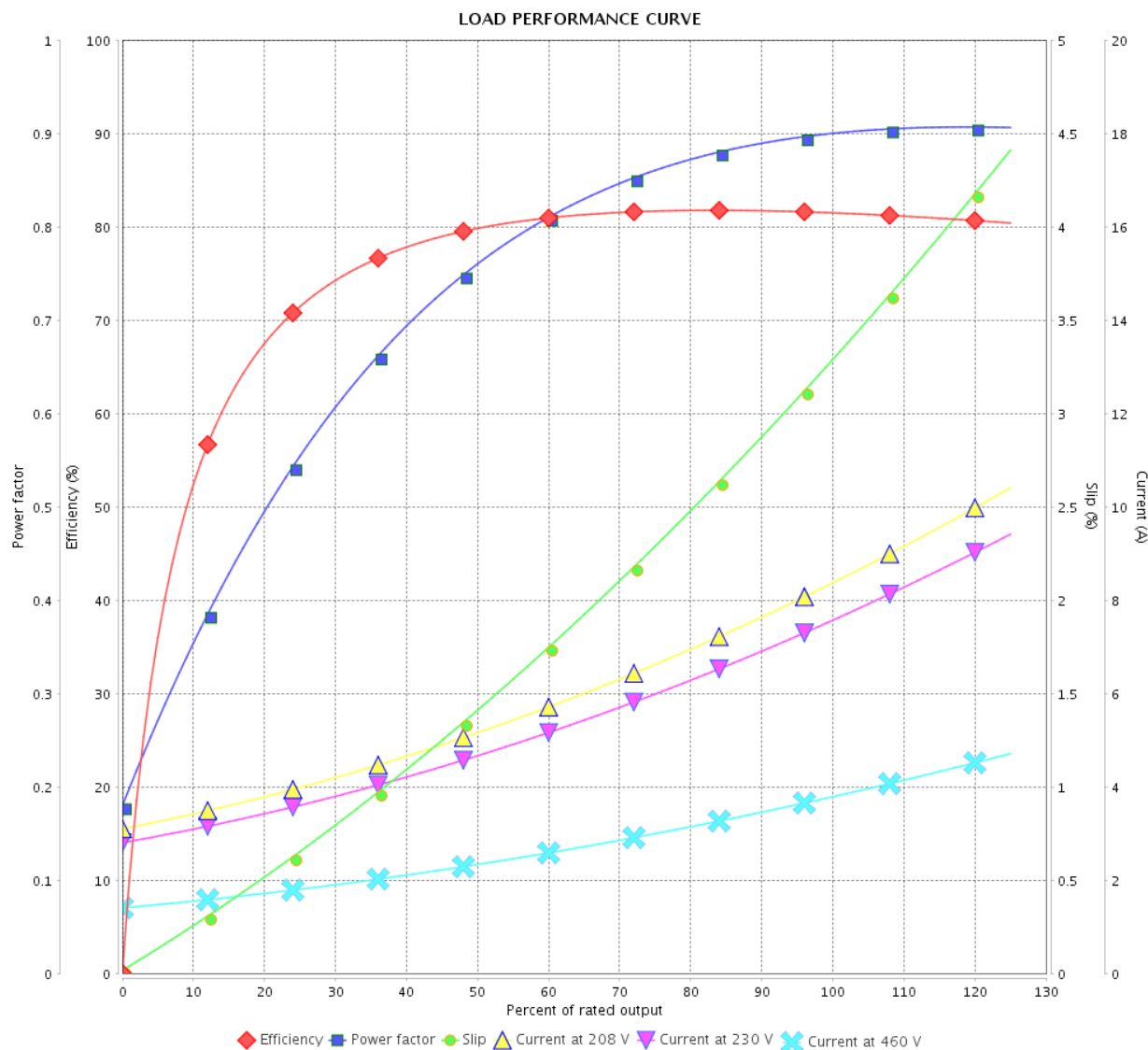
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13417432



Performance : 230/460 V 60 Hz 2P

Rated current : 7.52/3.76 A
 LRC : 8.5
 Rated torque : 0.626 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 280 %
 Rated speed : 3480 rpm

Moment of inertia (J) : 0.0054 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : A

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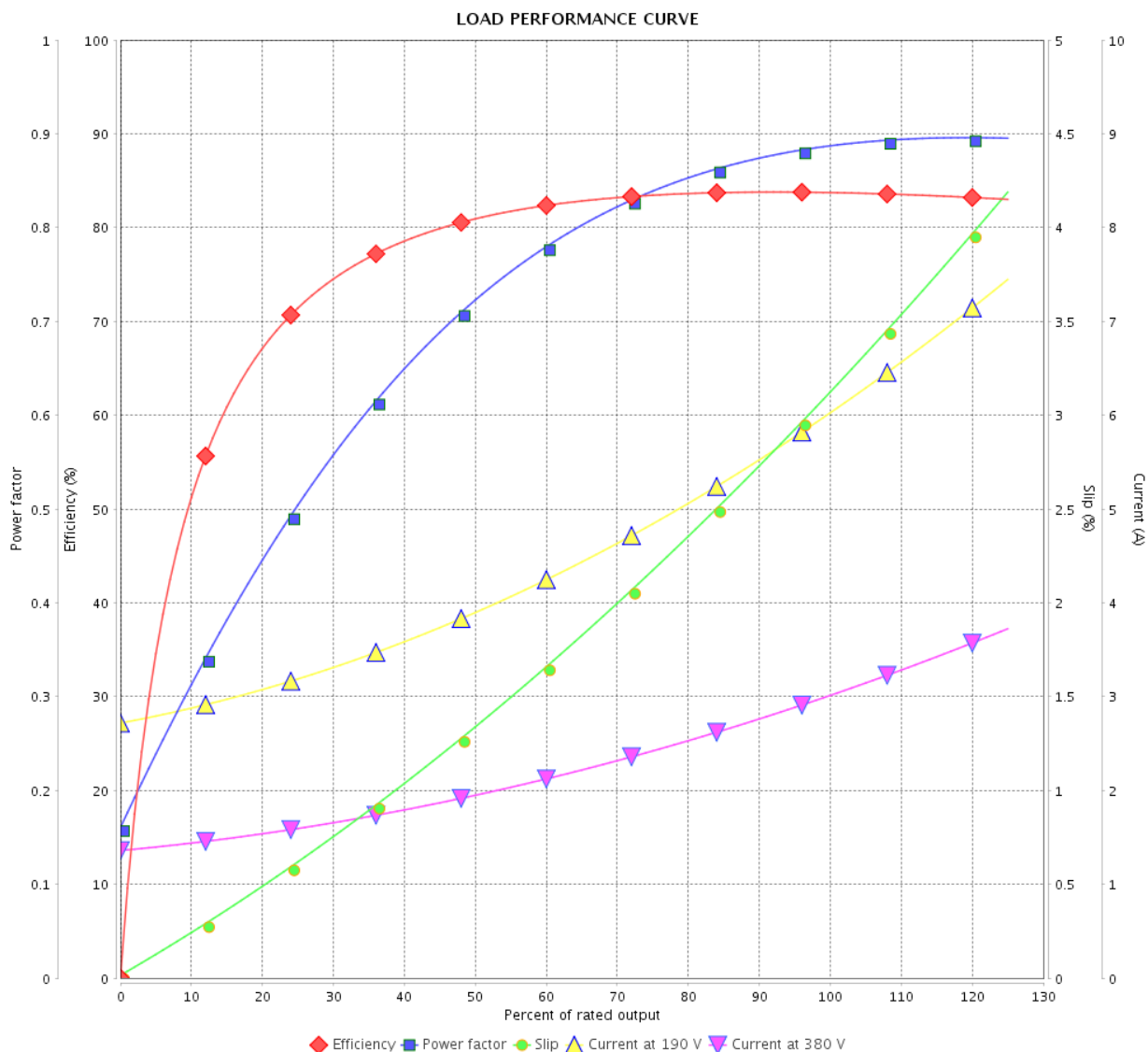
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Standard Efficiency Three-Phase Product code : 13417432



Performance : 190/380 V 50 Hz 2P

Rated current : 6.12/3.06 A
 LRC : 9.8
 Rated torque : 0.500 kgfm
 Locked rotor torque : 330 %
 Breakdown torque : 370 %
 Rated speed : 2905 rpm

Moment of inertia (J) : 0.0054 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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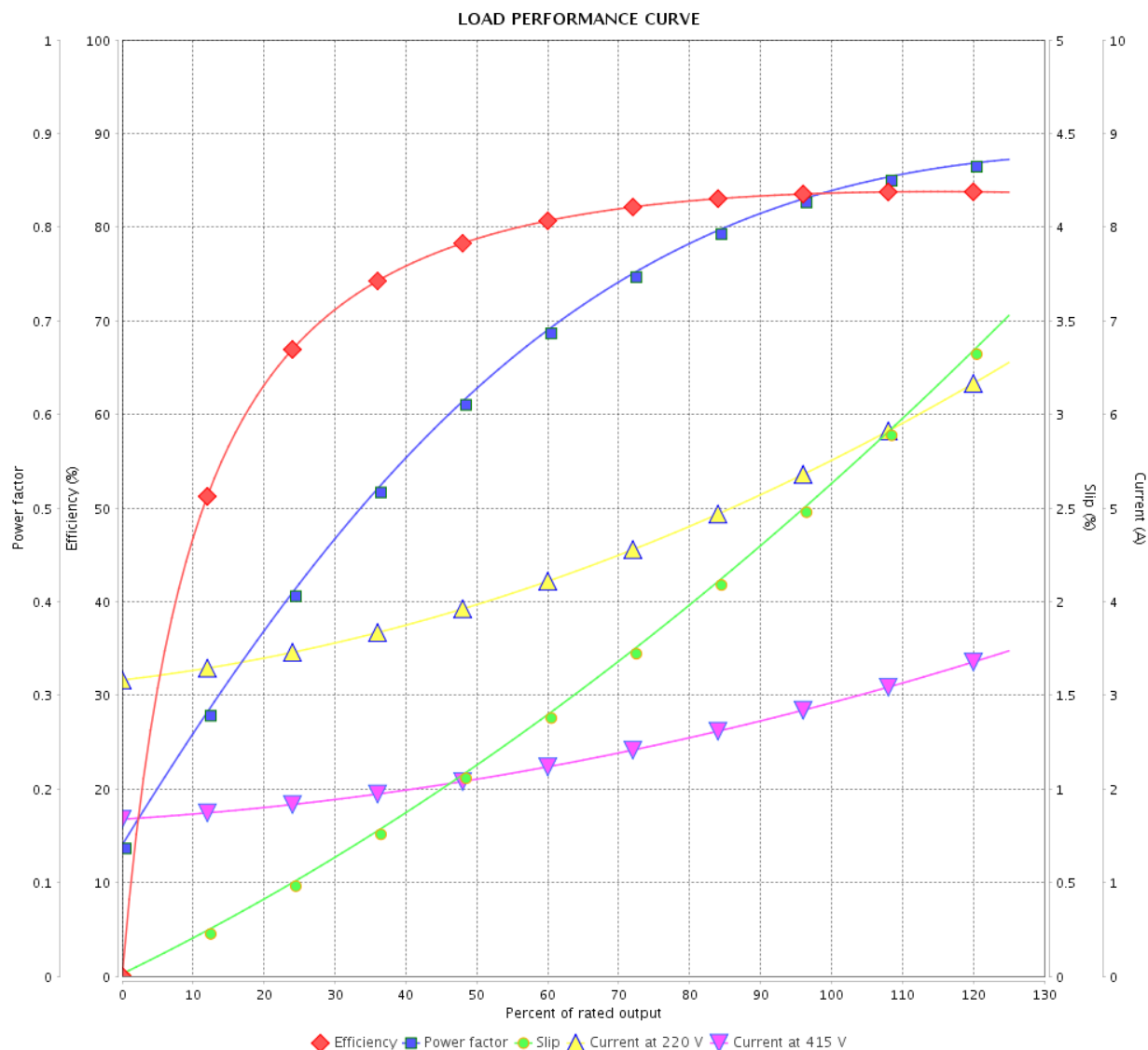
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13417432



Performance : 220/415 V 50 Hz 2P

Rated current : 5.60/2.97 A
 LRC : 11.1
 Rated torque : 0.497 kgfm
 Locked rotor torque : 400 %
 Breakdown torque : 450 %
 Rated speed : 2920 rpm

Moment of inertia (J) : 0.0054 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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