

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13504943

Frame	: W56	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 8.8 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0009 kgm <sup>2</sup>

Output [HP]	1	0.75	0.75
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	3.02/1.51	2.72/1.36	2.64/1.40
L. R. Amperes [A]	23.3/11.6	19.9/9.93	20.6/10.9
LRC [A]	7.7x(Code L)	7.3x(Code K)	7.8x(Code M)
No load current [A]	1.61/0.804	1.56/0.780	1.94/1.03
Rated speed [RPM]	3405	2825	2855
Slip [%]	5.42	5.83	4.83
Rated torque [kgfm]	0.213	0.193	0.191
Locked rotor torque [%]	330	360	440
Breakdown torque [%]	320	330	380
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	19s (cold) 11s (hot)	28s (cold) 16s (hot)	23s (cold) 13s (hot)
Noise level <sup>2</sup>	65.0 dB(A)	64.0 dB(A)	64.0 dB(A)
Efficiency (%)	25%		
	50%	70.0	69.0
	75%	74.0	73.0
	100%	74.0	73.0
Power Factor	25%		
	50%	0.66	0.63
	75%	0.77	0.75
	100%	0.84	0.83

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6203 ZZ	6202 ZZ	Max. traction : 18 kgf
Sealing	: V'Ring	V'Ring	Max. compression : 27 kgf
Lubrication interval	: -	-	
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

### Notes

USABLE @208V 3.34A SF 1.00 SFA 3.34A

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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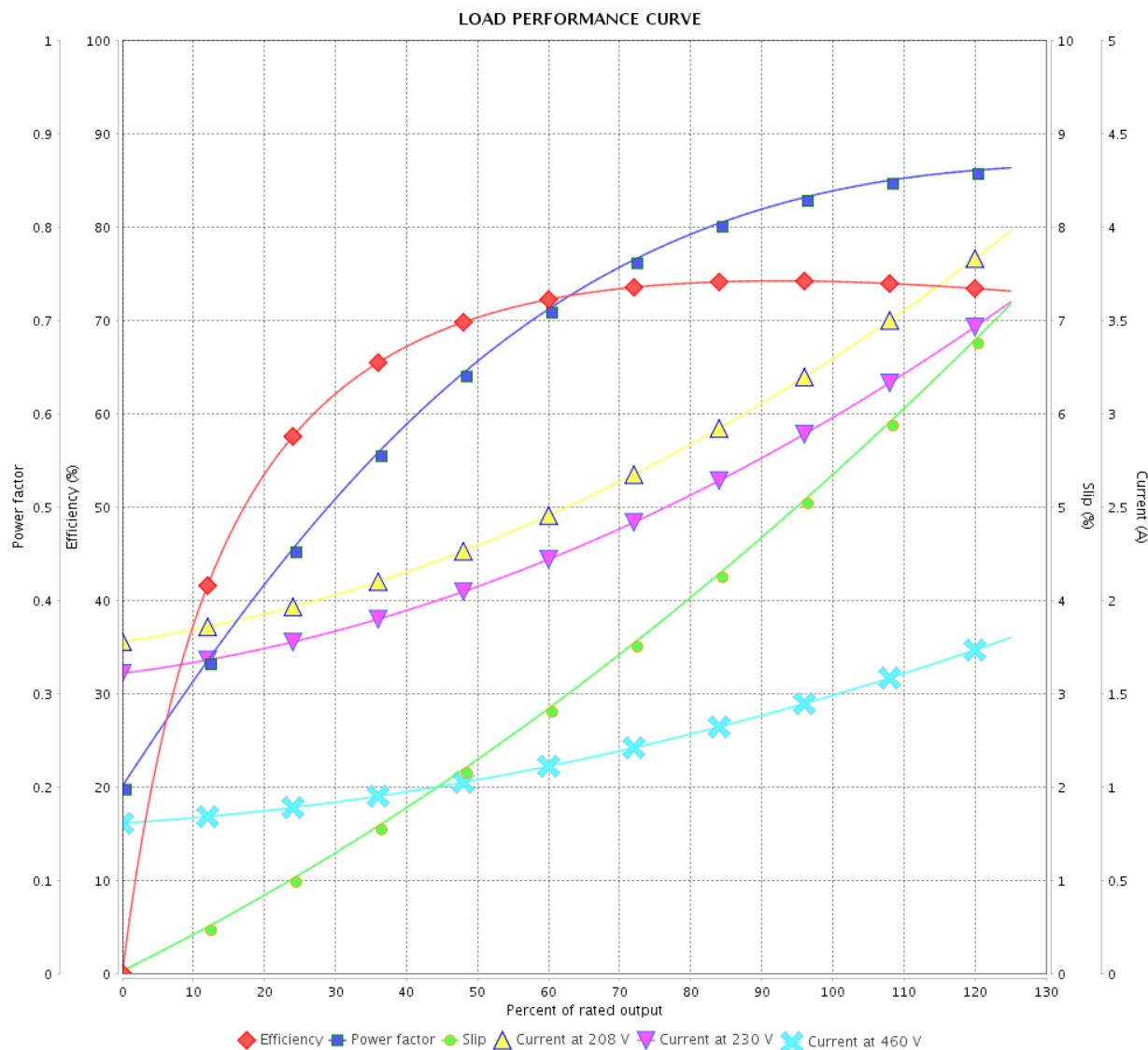
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13504943



Performance : 230/460 V 60 Hz 2P

Rated current : 3.02/1.51 A  
 LRC : 7.7  
 Rated torque : 0.213 kgfm  
 Locked rotor torque : 330 %  
 Breakdown torque : 320 %  
 Rated speed : 3405 rpm

Moment of inertia (J) : 0.0009 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K

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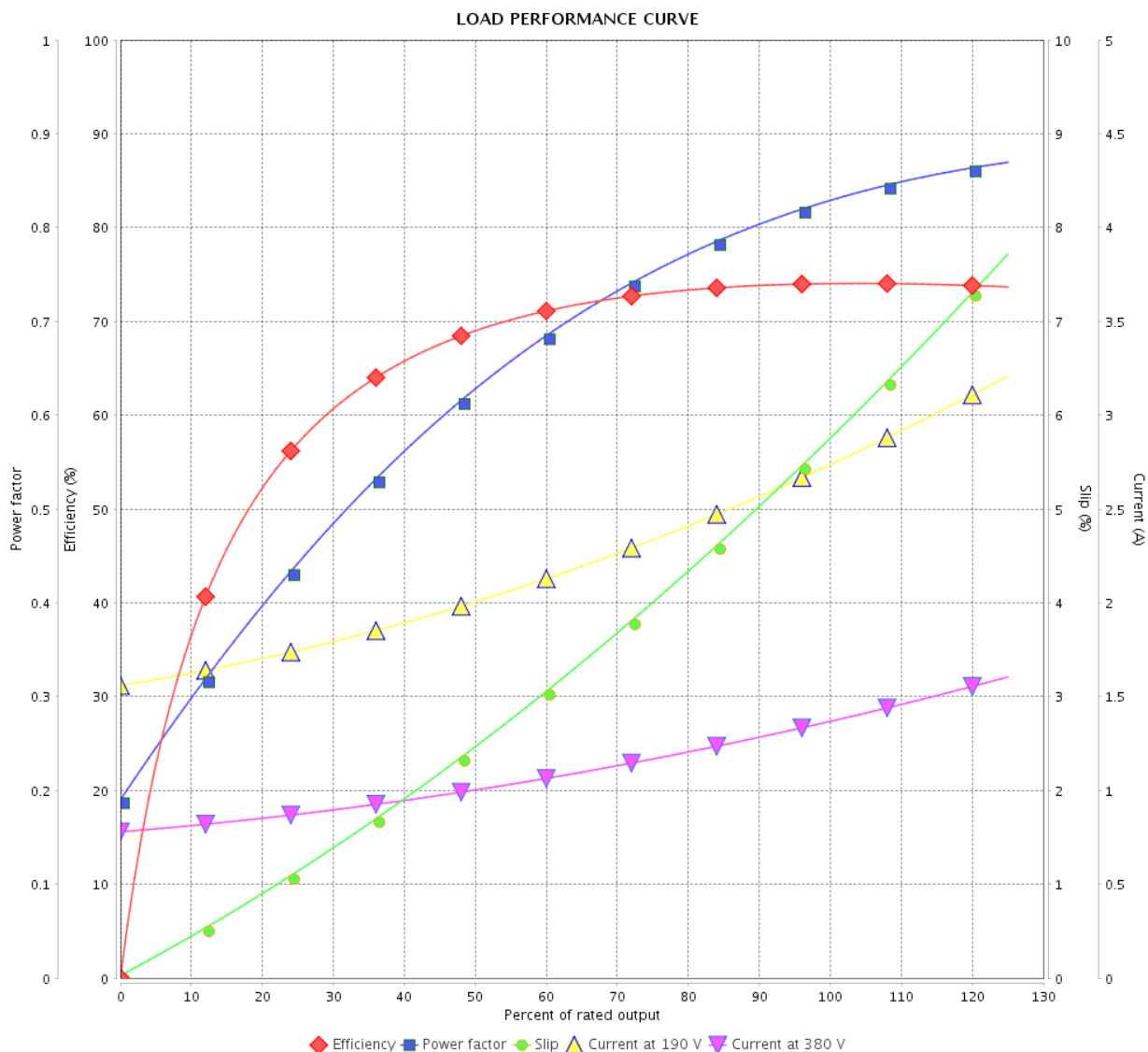
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13504943



Performance : 190/380 V 50 Hz 2P

Rated current : 2.72/1.36 A  
 LRC : 7.3  
 Rated torque : 0.193 kgfm  
 Locked rotor torque : 360 %  
 Breakdown torque : 330 %  
 Rated speed : 2825 rpm

Moment of inertia (J) : 0.0009 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

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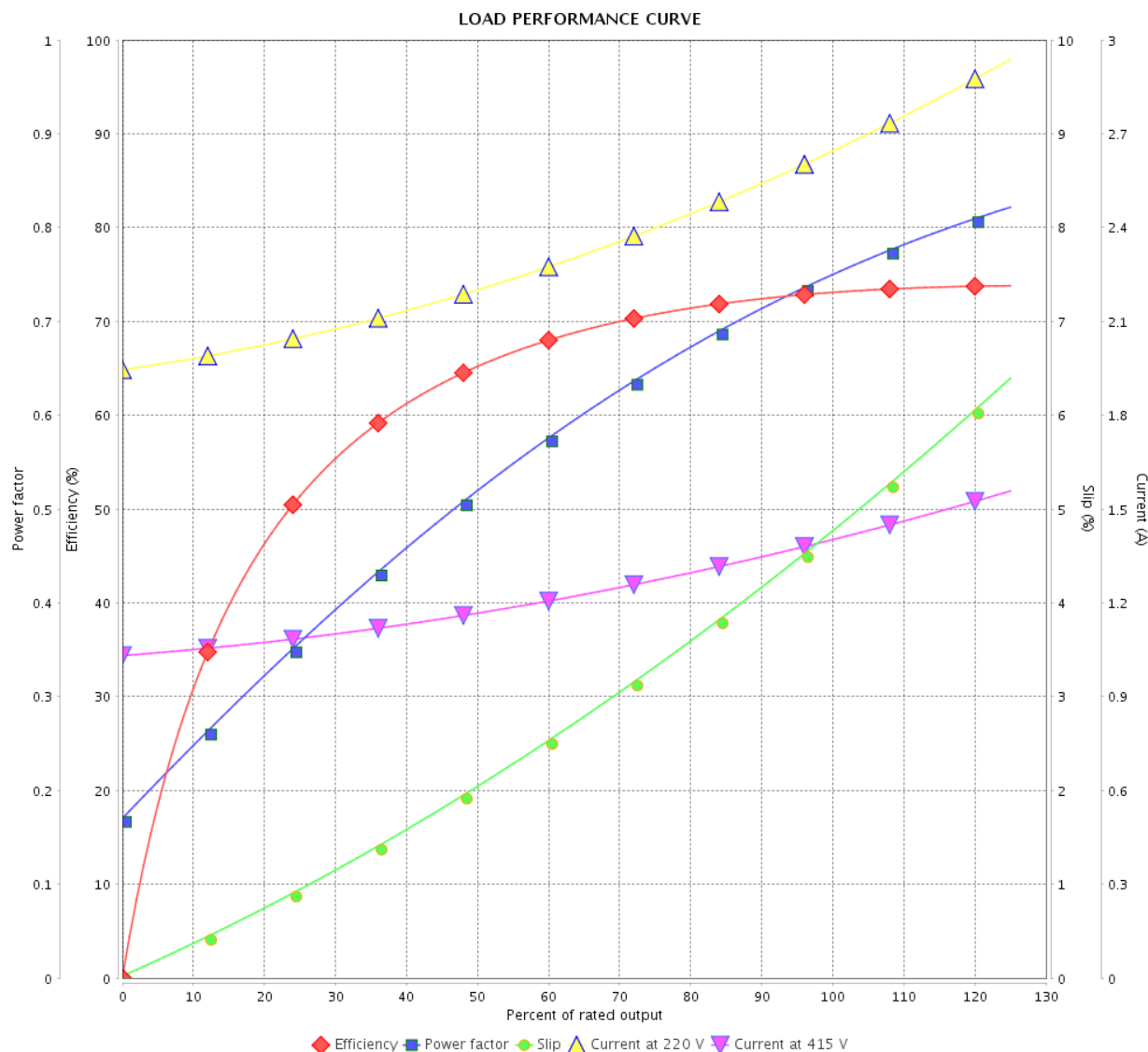
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13504943



Performance : 220/415 V 50 Hz 2P

Rated current : 2.64/1.40 A  
 LRC : 7.8  
 Rated torque : 0.191 kgfm  
 Locked rotor torque : 440 %  
 Breakdown torque : 380 %  
 Rated speed : 2855 rpm

Moment of inertia (J) : 0.0009 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

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