

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 15065846

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>	: 7.2 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0006 kgm <sup>2</sup>

Output [HP]	0.33	0.33	0.33
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190-220/380	415
Rated current [A]	1.30-1.15/0.573	1.29-1.12/0.646	0.624
L. R. Amperes [A]	9.27-8.14/4.07	7.24-6.25/3.62	3.93
LRC [A]	7.1x(Code L)	5.6x(Code J)	6.3x(Code K)
No load current [A]	0.610-0.708/0.354	0.692-0.598/0.346	0.398
Rated speed [RPM]	3450	2800	2830
Slip [%]	4.17	6.67	5.67
Rated torque [kgfm]	0.069	0.086	0.085
Locked rotor torque [%]	320	240	290
Breakdown torque [%]	370	260	310
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	50s (cold) 28s (hot)	50s (cold) 28s (hot)	43s (cold) 24s (hot)
Noise level <sup>2</sup>	65.0 dB(A)	64.0 dB(A)	64.0 dB(A)
Efficiency (%)	25%		
	50%	59.5	65.8
	75%	66.0	70.6
	100%	72.0	71.7
Power Factor	25%		
	50%	0.61	0.66
	75%	0.71	0.77
	100%	0.76	0.82

Bearing type	: Drive end	Non drive end	Foundation loads
	: 6203 ZZ	6202 ZZ	
Sealing	: V'Ring	Without	Max. traction : 4 kgf
		Bearing Seal	
Lubrication interval	: -	-	Max. compression : 12 kgf
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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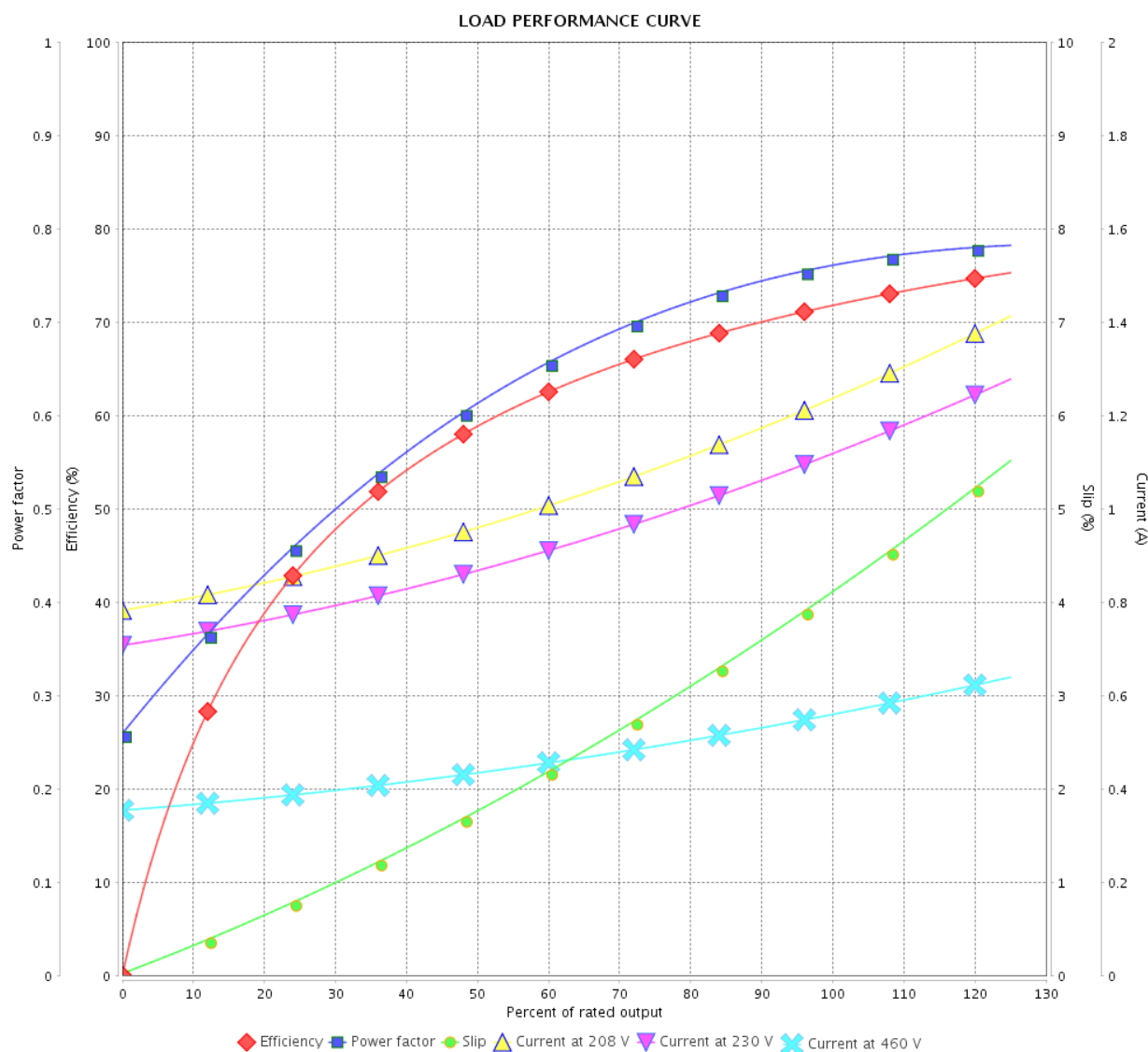
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 15065846



Performance : 208-230/460 V 60 Hz 2P

Rated current : 1.30-1.15/0.573 A  
 LRC : 7.1  
 Rated torque : 0.069 kgfm  
 Locked rotor torque : 320 %  
 Breakdown torque : 370 %  
 Rated speed : 3450 rpm

Moment of inertia (J) : 0.0006 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K

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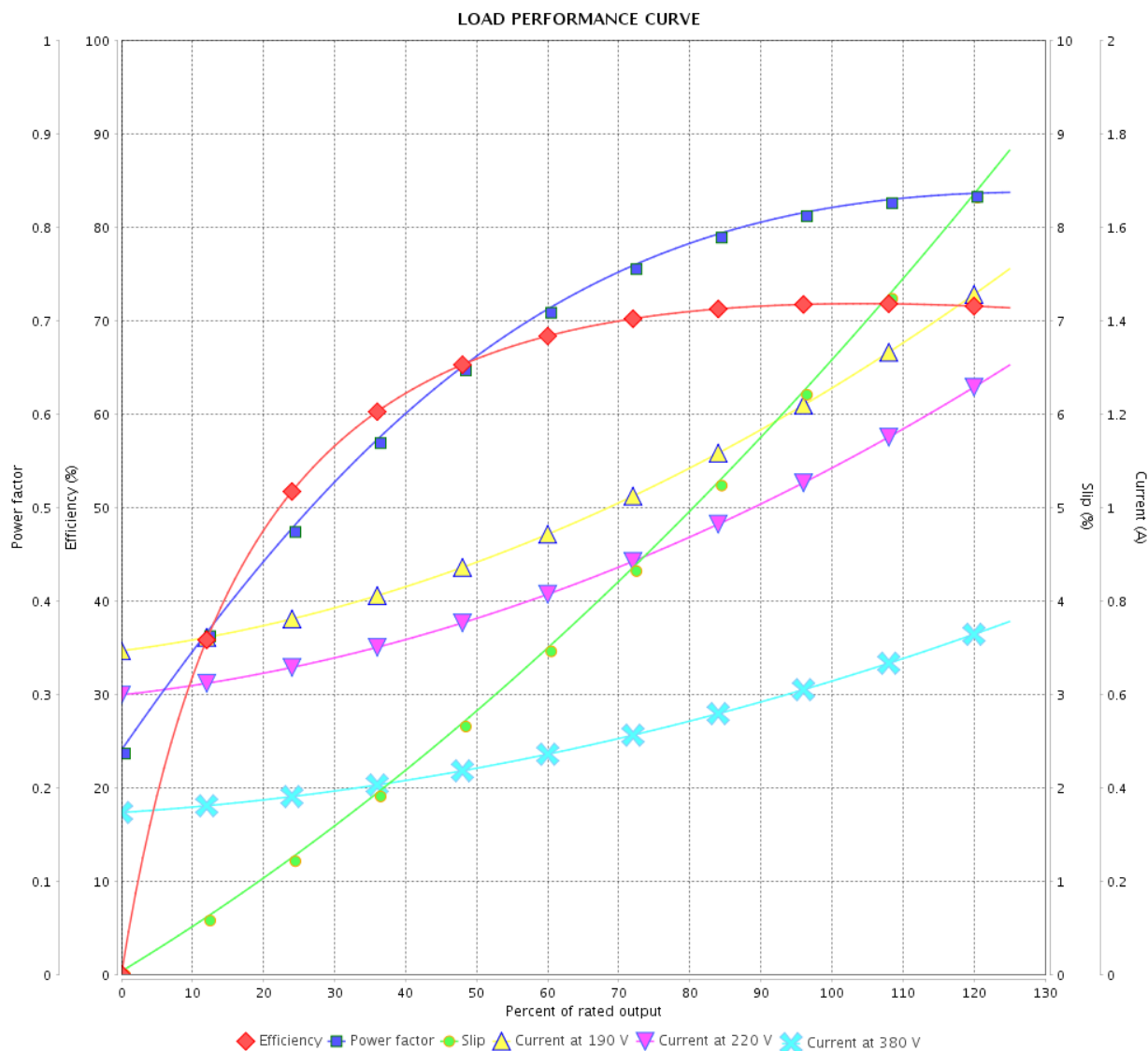
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 15065846



Performance : 190-220/380 V 50 Hz 2P

Rated current : 1.29-1.12/0.646 A  
 LRC : 5.6  
 Rated torque : 0.086 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 260 %  
 Rated speed : 2800 rpm

Moment of inertia (J) : 0.0006 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

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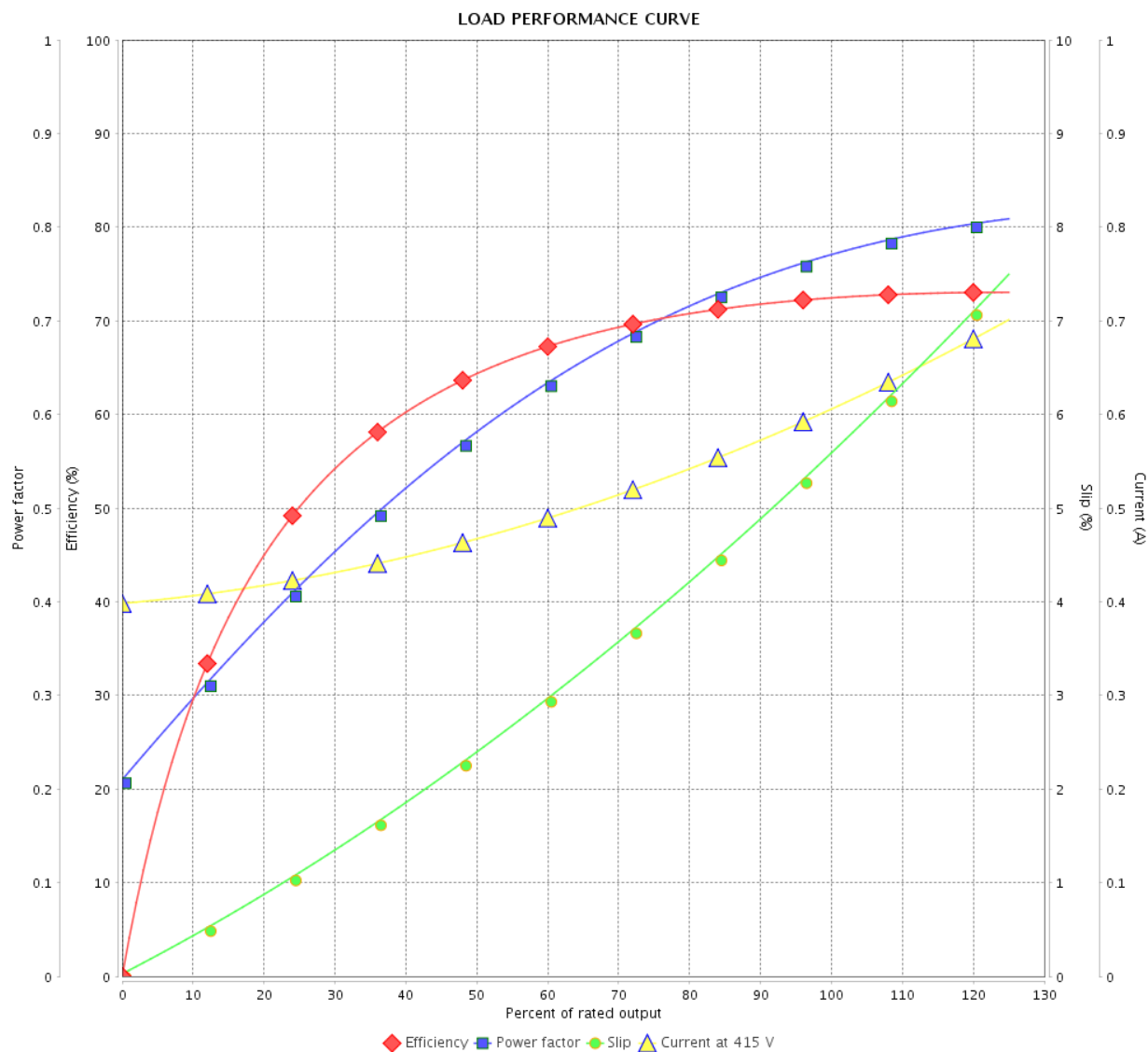
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 15065846



Performance : 415 V 50 Hz 2P

Rated current : 0.624 A  
 LRC : 6.3  
 Rated torque : 0.085 kgfm  
 Locked rotor torque : 290 %  
 Breakdown torque : 310 %  
 Rated speed : 2830 rpm

Moment of inertia (J) : 0.0006 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

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