

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase

Product code : 14453337

Frame	: W56C	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>	: 7.9 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0015 kgm <sup>2</sup>

Output [HP]	0.33	0.33	0.33
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	1.38-1.25/0.624	1.36/0.681	1.28/0.680
L. R. Amperes [A]	8.56-7.74/3.87	6.67/3.34	6.67/3.54
LRC [A]	6.2x(Code L)	4.9x(Code H)	5.2x(Code J)
No load current [A]	0.819-0.950/0.475	0.932/0.466	0.960/0.509
Rated speed [RPM]	1740	1410	1420
Slip [%]	3.33	6.00	5.33
Rated torque [kgfm]	0.138	0.170	0.169
Locked rotor torque [%]	260	190	210
Breakdown torque [%]	350	229	260
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	39s (cold) 22s (hot)	36s (cold) 20s (hot)	32s (cold) 18s (hot)
Noise level <sup>2</sup>	50.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%		
	50%	66.0	64.9
	75%	72.0	70.3
	100%	74.0	71.7
Power Factor	25%		
	50%	0.46	0.51
	75%	0.58	0.64
	100%	0.68	0.74

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6203 ZZ	6202 ZZ	Max. traction : 10 kgf
Sealing	: V'Ring	V'Ring	Max. compression : 18 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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# LOAD PERFORMANCE CURVE

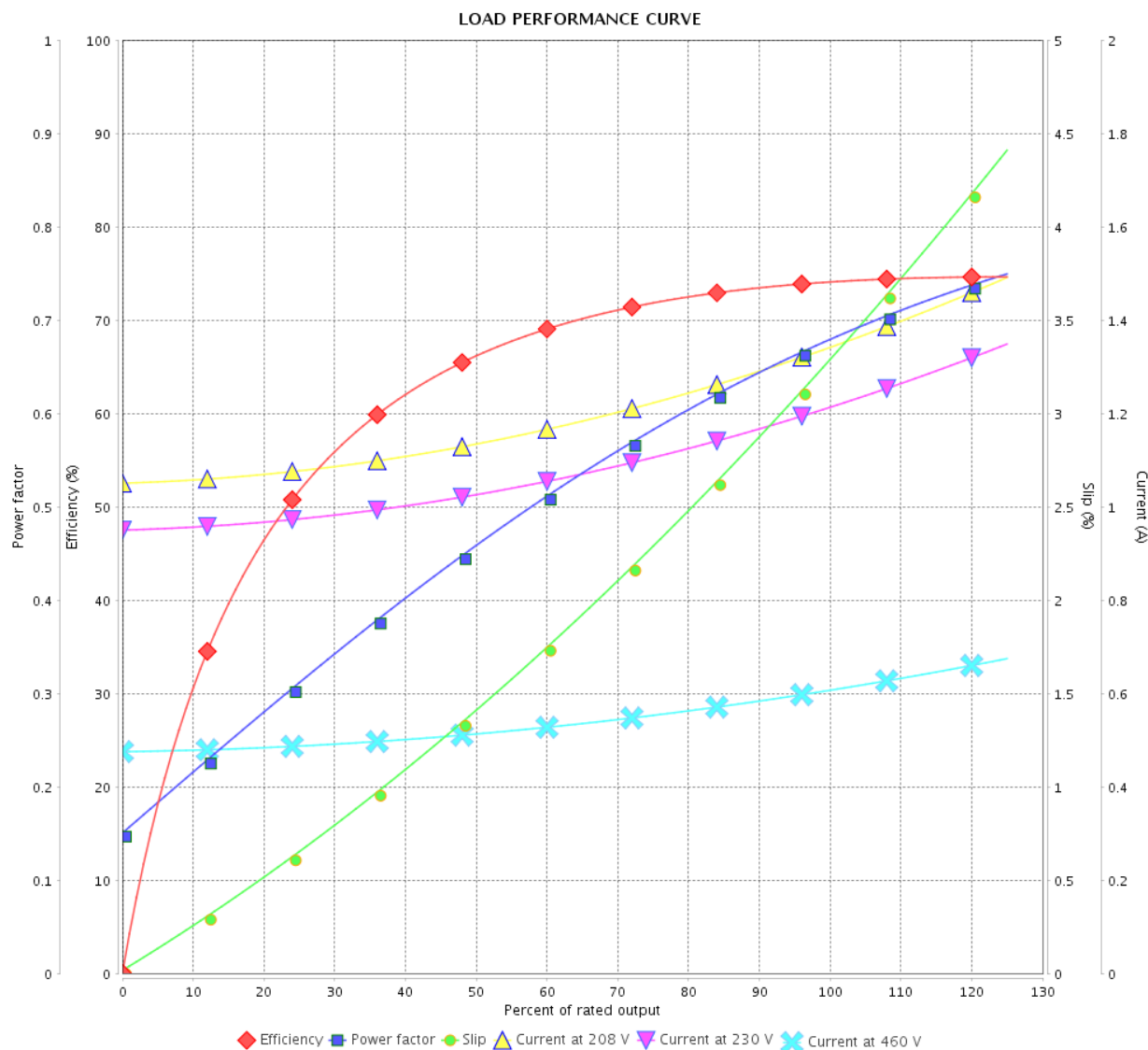
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase

Product code : 14453337



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

Rated current : 1.38-1.25/0.624 A  
 LRC : 6.2  
 Rated torque : 0.138 kgfm  
 Locked rotor torque : 260 %  
 Breakdown torque : 350 %  
 Rated speed : 1740 rpm

Moment of inertia (J) : 0.0015 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K

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# LOAD PERFORMANCE CURVE

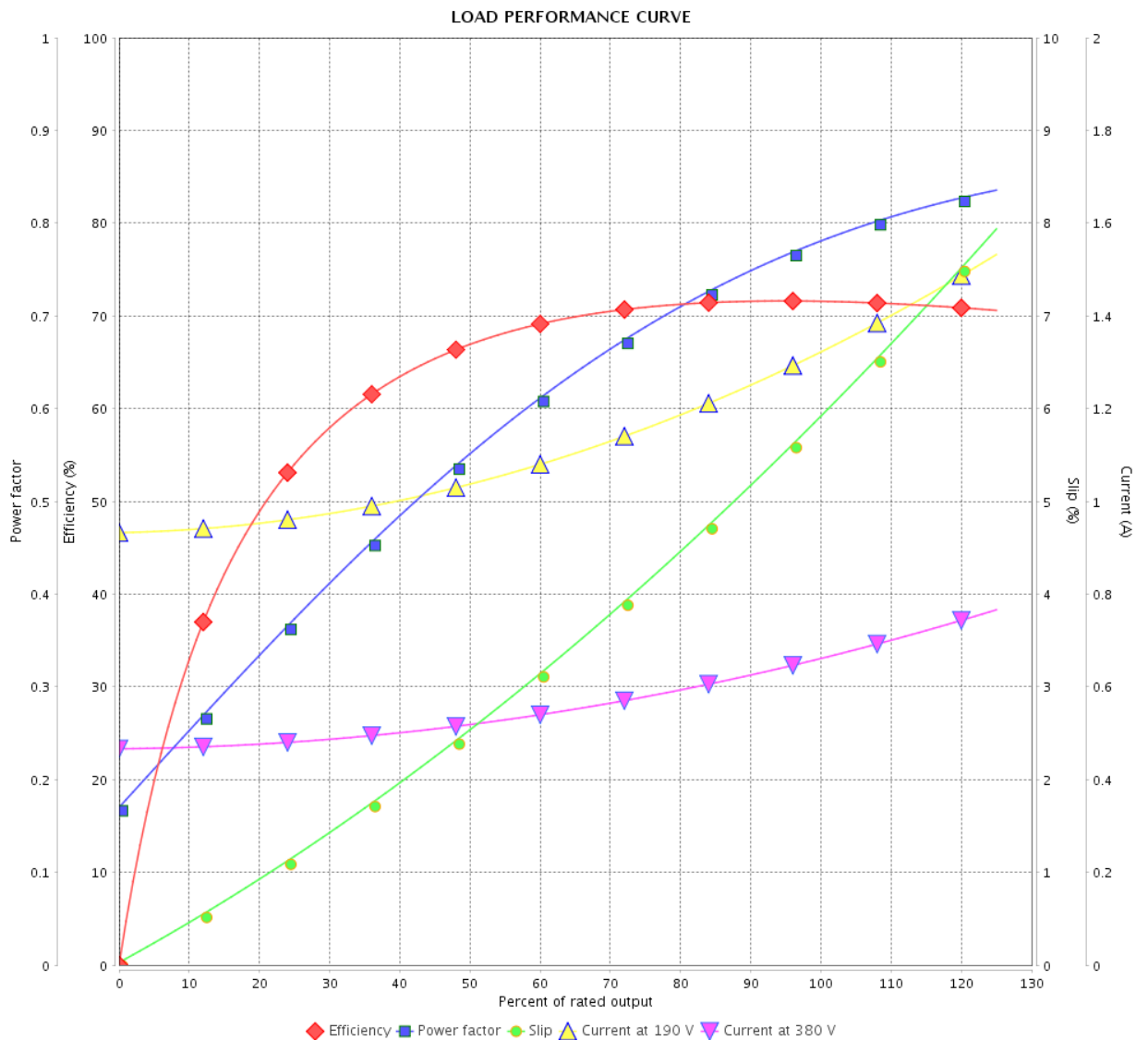
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase

Product code : 14453337



Performance : 190/380 V 50 Hz 4P

Rated current : 1.36/0.681 A  
 LRC : 4.9  
 Rated torque : 0.170 kgfm  
 Locked rotor torque : 190 %  
 Breakdown torque : 229 %  
 Rated speed : 1410 rpm

Moment of inertia (J) : 0.0015 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

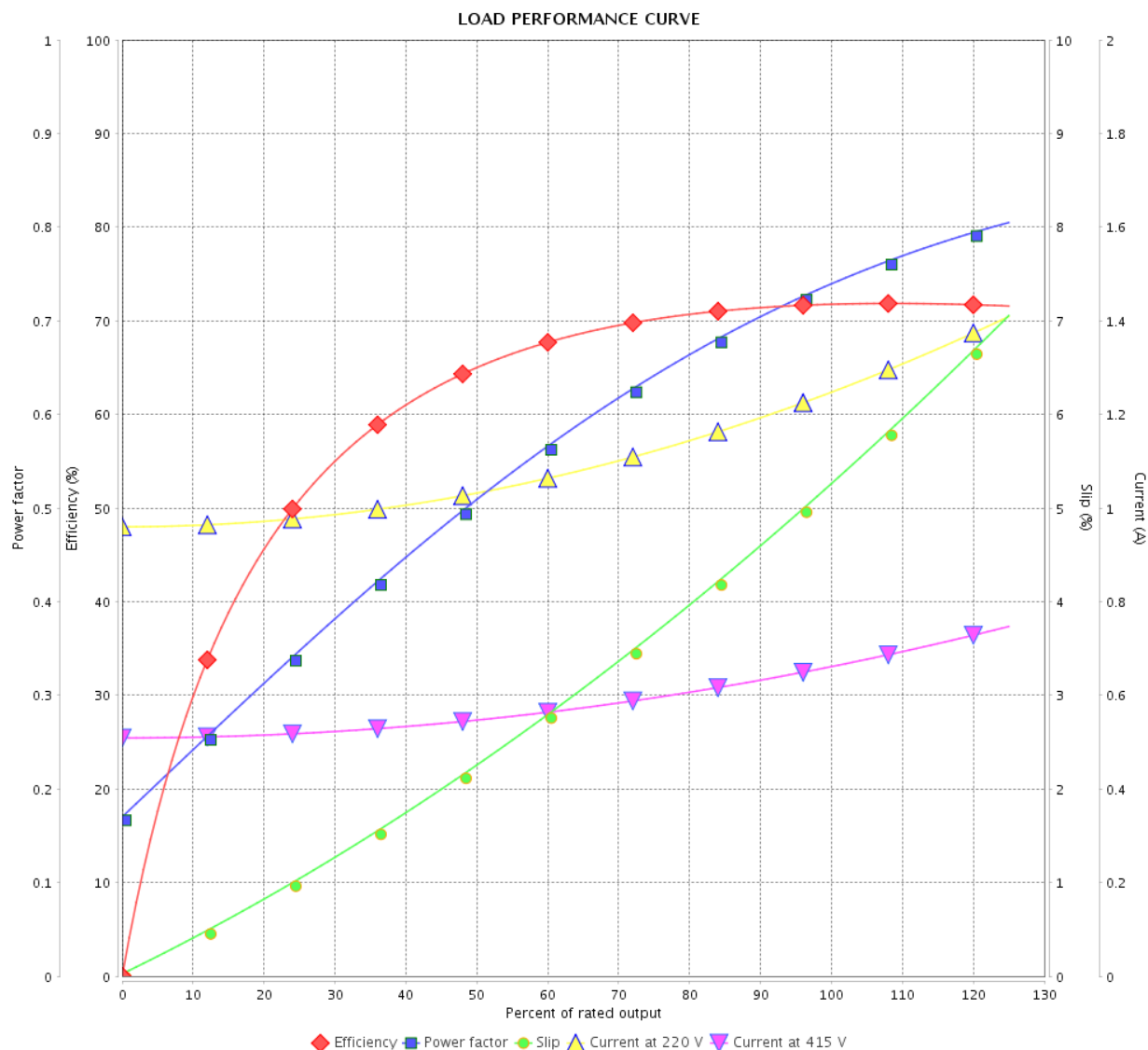
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase

Product code : 14453337



Performance : 220/415 V 50 Hz 4P

Rated current : 1.28/0.680 A  
 LRC : 5.2  
 Rated torque : 0.169 kgfm  
 Locked rotor torque : 210 %  
 Breakdown torque : 260 %  
 Rated speed : 1420 rpm

Moment of inertia (J) : 0.0015 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

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