

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :		
Product line	: NEMA Premium Efficiency Three-Phase	
Product code :	12675355	
Frame	: 213/5TC	
Insulation class	: F	
Duty cycle	: Cont.(S1)	
Ambient temperature	: -20°C to +40°C	
Altitude	: 1000 m.a.s.l.	
Protection degree	: IP55	
Design	: B	
Cooling method	: IC411 - TEFC	
Mounting	: F-1	
Rotation <sup>1</sup>	: Both (CW and CCW)	
Starting method	: Direct On Line	
Approx. weight <sup>3</sup>	: 64.6 kg	
Moment of inertia (J)	: 0.0232 kgm <sup>2</sup>	
Output [HP]	7.5	
Poles	2	
Frequency [Hz]	60	
Rated voltage [V]	230/460	
Rated current [A]	17.3/8.67	
L. R. Amperes [A]	132/65.9	
LRC [A]	7.6x(Code H)	
No load current [A]	6.63/3.32	
Rated speed [RPM]	3530	
Slip [%]	1.94	
Rated torque [kgfm]	1.54	
Locked rotor torque [%]	260	
Breakdown torque [%]	300	
Service factor	1.15	
Temperature rise	80 K	
Locked rotor time	27s (cold) 15s (hot)	
Noise level <sup>2</sup>	70.0 dB(A)	
Efficiency (%)	25%	86.4
	50%	87.5
	75%	88.5
	100%	89.5
Power Factor	25%	0.49
	50%	0.76
	75%	0.85
	100%	0.89
Bearing type	: <u>Drive end</u> 6208 ZZ <u>Non drive end</u> 6206 ZZ	
Sealing	: V'Ring Without Bearing Seal	
Lubrication interval	: -	
Lubricant amount	: -	
Lubricant type	: Mobil Polyrex EM	
Foundation loads	Max. traction : 61 kgf	
	Max. compression : 125 kgf	
Notes USABLE @208V 19.2A SF 1.00 SFA 19.2A		
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.		
Rev.	Changes Summary	
Performed by	Performed	
Checked by	Checked	
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Revision		

# LOAD PERFORMANCE CURVE

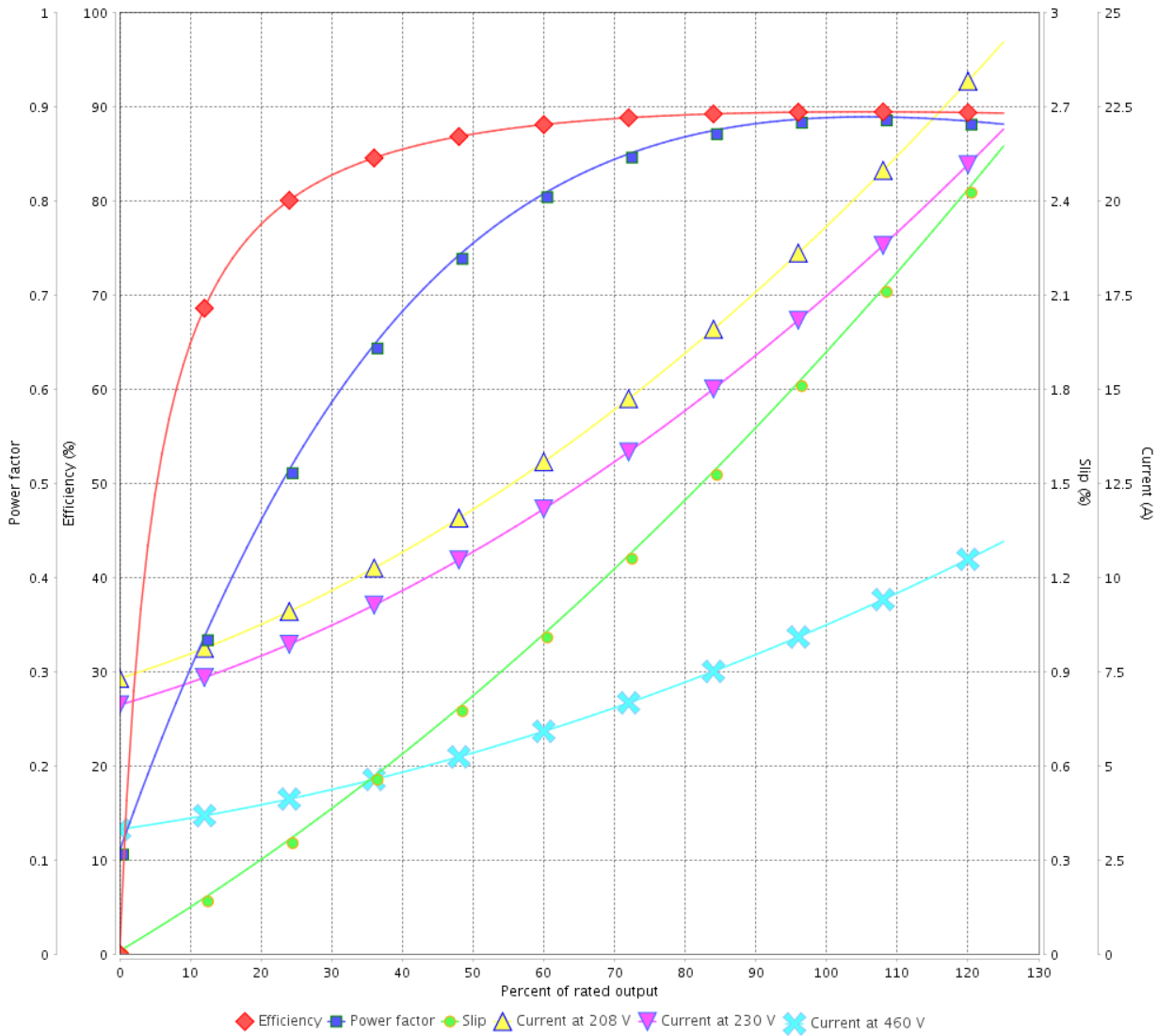
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase      Product code : 12675355

LOAD PERFORMANCE CURVE



Performance : 230/460 V 60 Hz 2P

Rated current : 17.3/8.67 A  
 LRC : 7.6  
 Rated torque : 1.54 kgfm  
 Locked rotor torque : 260 %  
 Breakdown torque : 300 %  
 Rated speed : 3530 rpm

Moment of inertia (J) : 0.0232 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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Date				

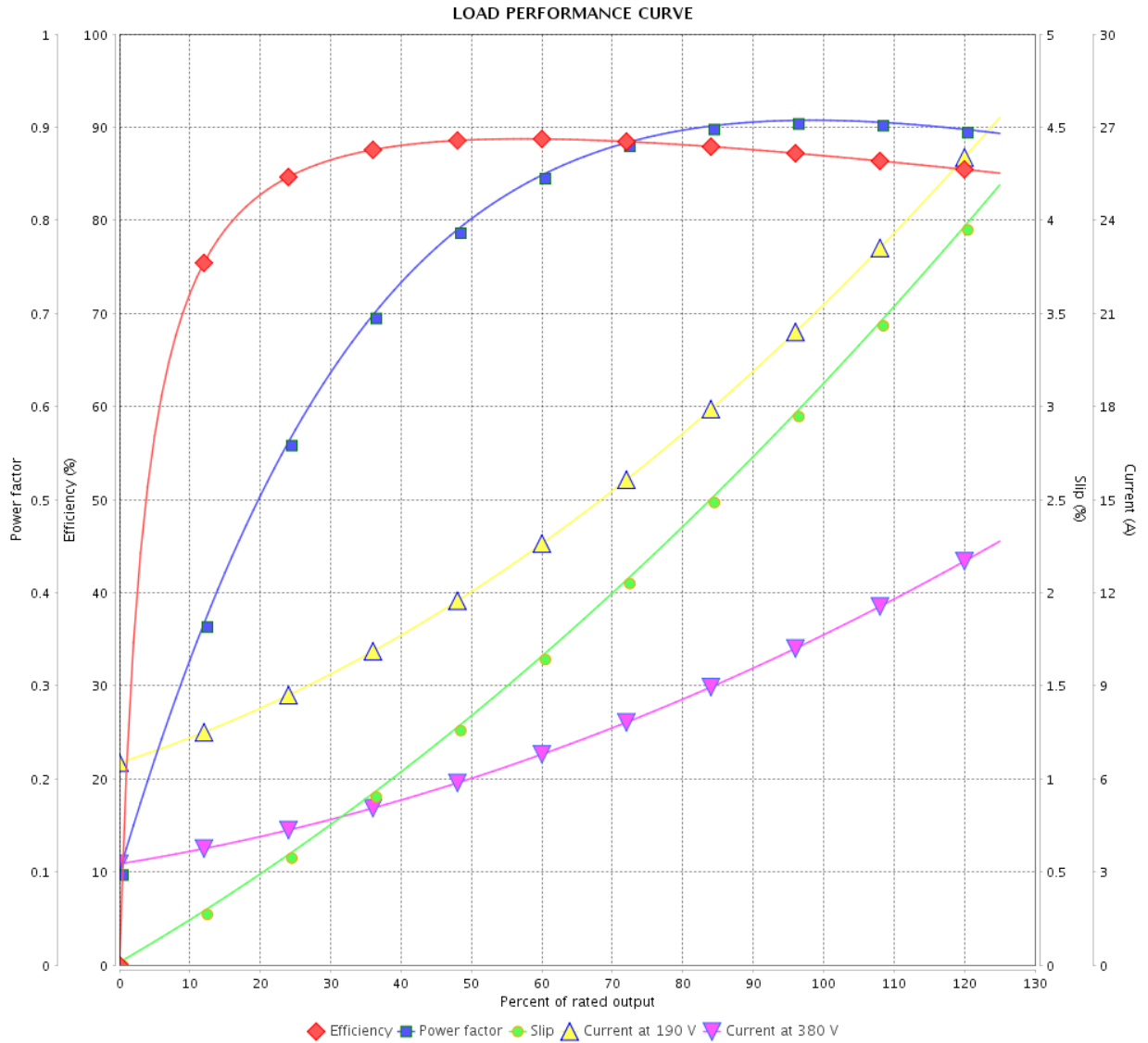
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : NEMA Premium Efficiency Three-Phase      Product code : 12675355



Performance : 190/380 V 50 Hz 2P

Rated current : 21.2/10.6 A  
 LRC : 6.3  
 Rated torque : 1.87 kgfm  
 Locked rotor torque : 190 %  
 Breakdown torque : 240 %  
 Rated speed : 2905 rpm

Moment of inertia (J) : 0.0232 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 105 K  
 Design : B

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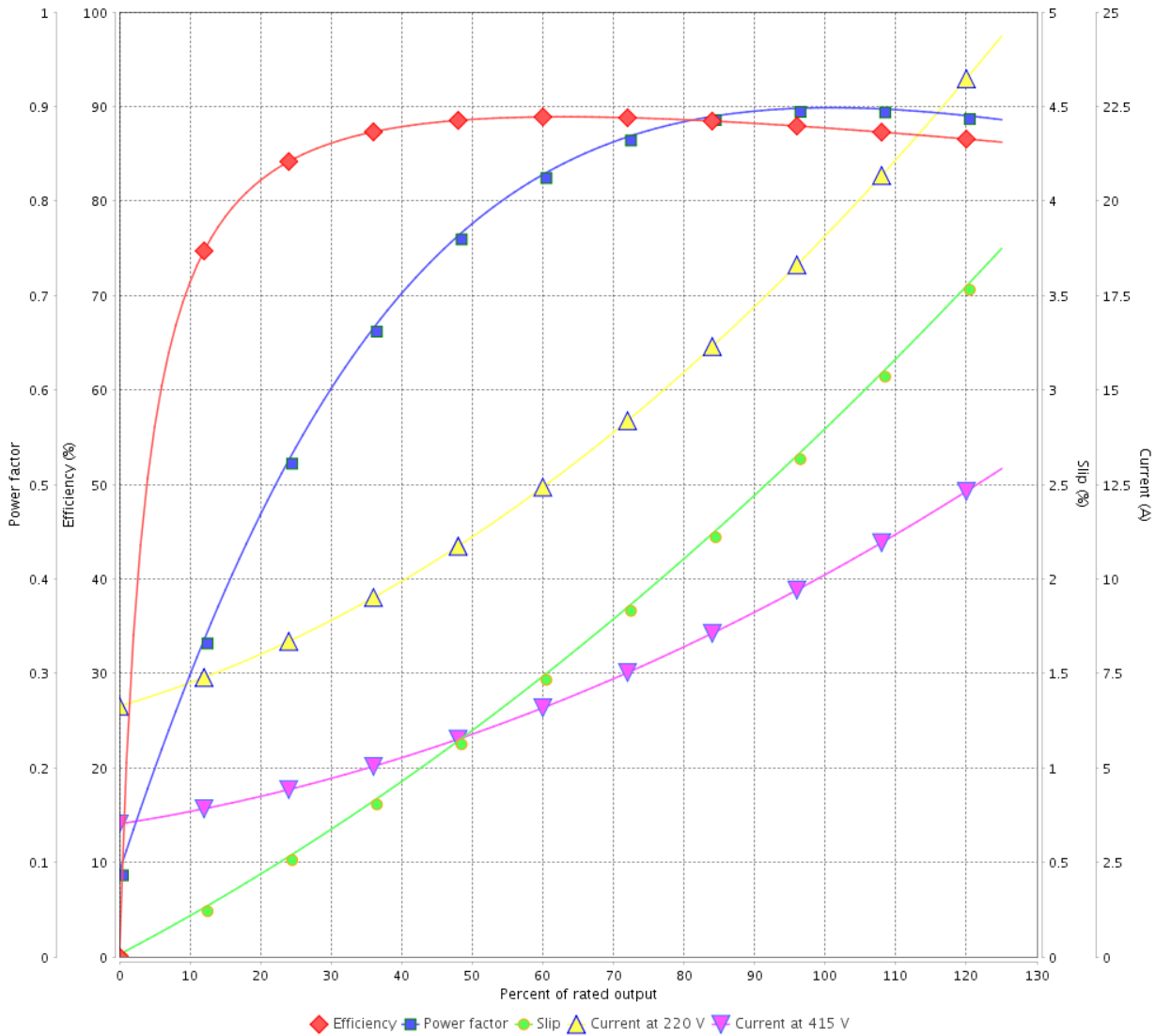
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase      Product code : 12675355

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Performance : 220/415 V 50 Hz 2P

Rated current	: 19.1/10.1 A	Moment of inertia (J)	: 0.0232 kgm <sup>2</sup>
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 1.87 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 2915 rpm	Design	: B

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