

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :		
Product line	: NEMA Premium Efficiency Three-Phase	
Product code :	12674849	
Frame	: 213/5T	
Insulation class	: F	
Duty cycle	: Cont.(S1)	
Ambient temperature	: -20°C to +40°C	
Altitude	: 1000 m.a.s.l.	
Design	: B	
Cooling method	: IC01 - ODP	
Mounting	: F-1	
Rotation <sup>1</sup>	: Both (CW and CCW)	
Starting method	: Direct On Line	
Approx. weight <sup>3</sup>	: 53.1 kg	
Moment of inertia (J)	: 0.0433 kgm <sup>2</sup>	
Output [HP]	7.5	
Poles	4	
Frequency [Hz]	60	
Rated voltage [V]	230/460	
Rated current [A]	18.5/9.25	
L. R. Amperes [A]	133/66.6	
LRC [A]	7.2x(Code H)	
No load current [A]	8.79/4.39	
Rated speed [RPM]	1770	
Slip [%]	1.67	
Rated torque [kgfm]	3.08	
Locked rotor torque [%]	240	
Breakdown torque [%]	320	
Service factor	1.15	
Temperature rise	80 K	
Locked rotor time	23s (cold) 13s (hot)	
Noise level <sup>2</sup>	59.0 dB(A)	
Efficiency (%)	25%	88.6
	50%	89.5
	75%	90.2
	100%	91.0
Power Factor	25%	0.39
	50%	0.65
	75%	0.77
	100%	0.82
Bearing type	: Drive end 6208 ZZ Non drive end 6206 ZZ	
Sealing	: Without Bearing Seal Without Bearing Seal	
Lubrication interval	: -	
Lubricant amount	: -	
Lubricant type	: Mobil Polyrex EM	
Foundation loads	Max. traction : 146 kgf	
	Max. compression : 199 kgf	
Notes		
USABLE @208V 20.5A SF 1.00 SFA 20.5A		
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	
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Revision		

# LOAD PERFORMANCE CURVE

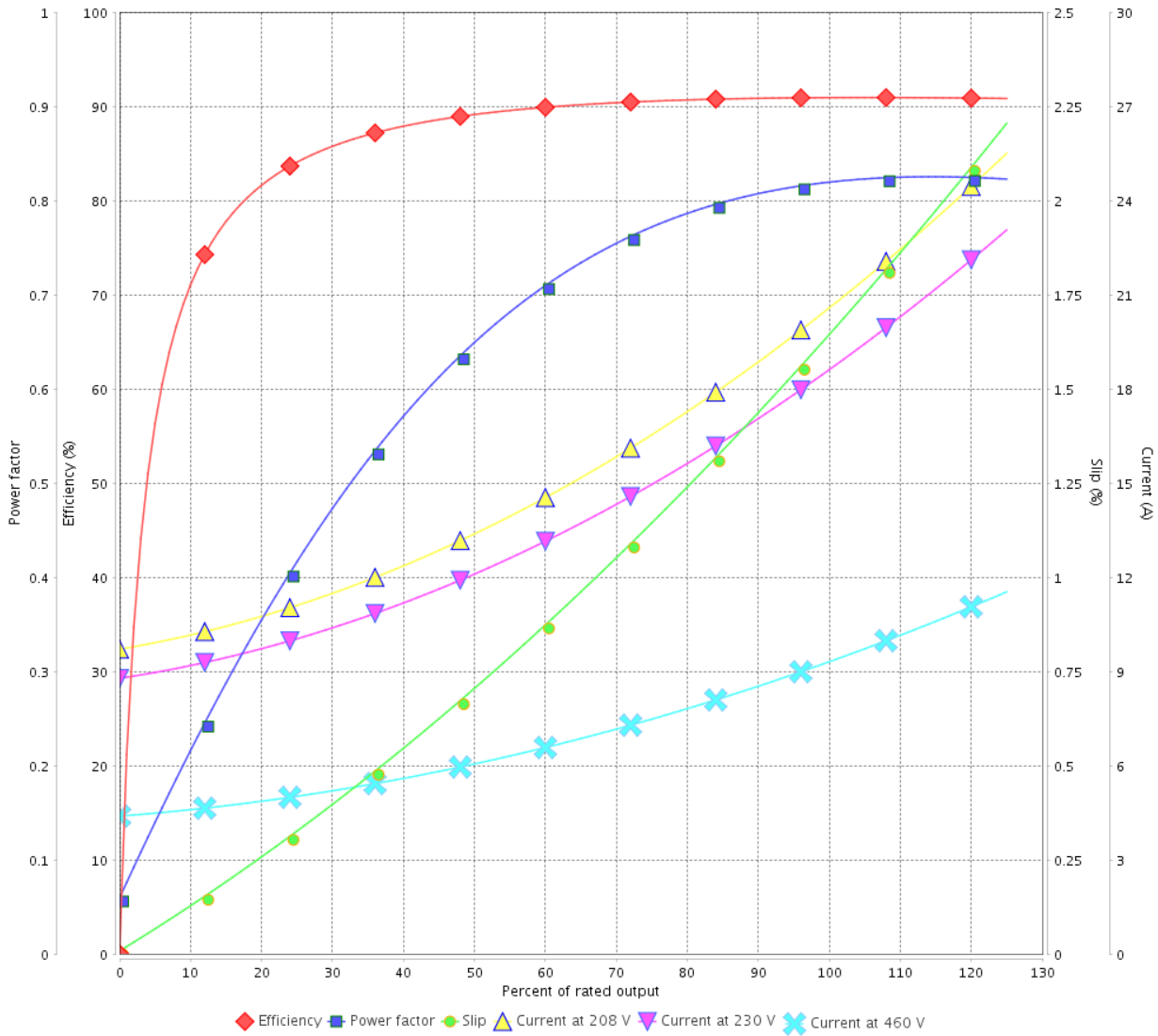
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase      Product code : 12674849

LOAD PERFORMANCE CURVE



Performance : 230/460 V 60 Hz 4P

Rated current : 18.5/9.25 A  
 LRC : 7.2  
 Rated torque : 3.08 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 320 %  
 Rated speed : 1770 rpm

Moment of inertia (J) : 0.0433 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
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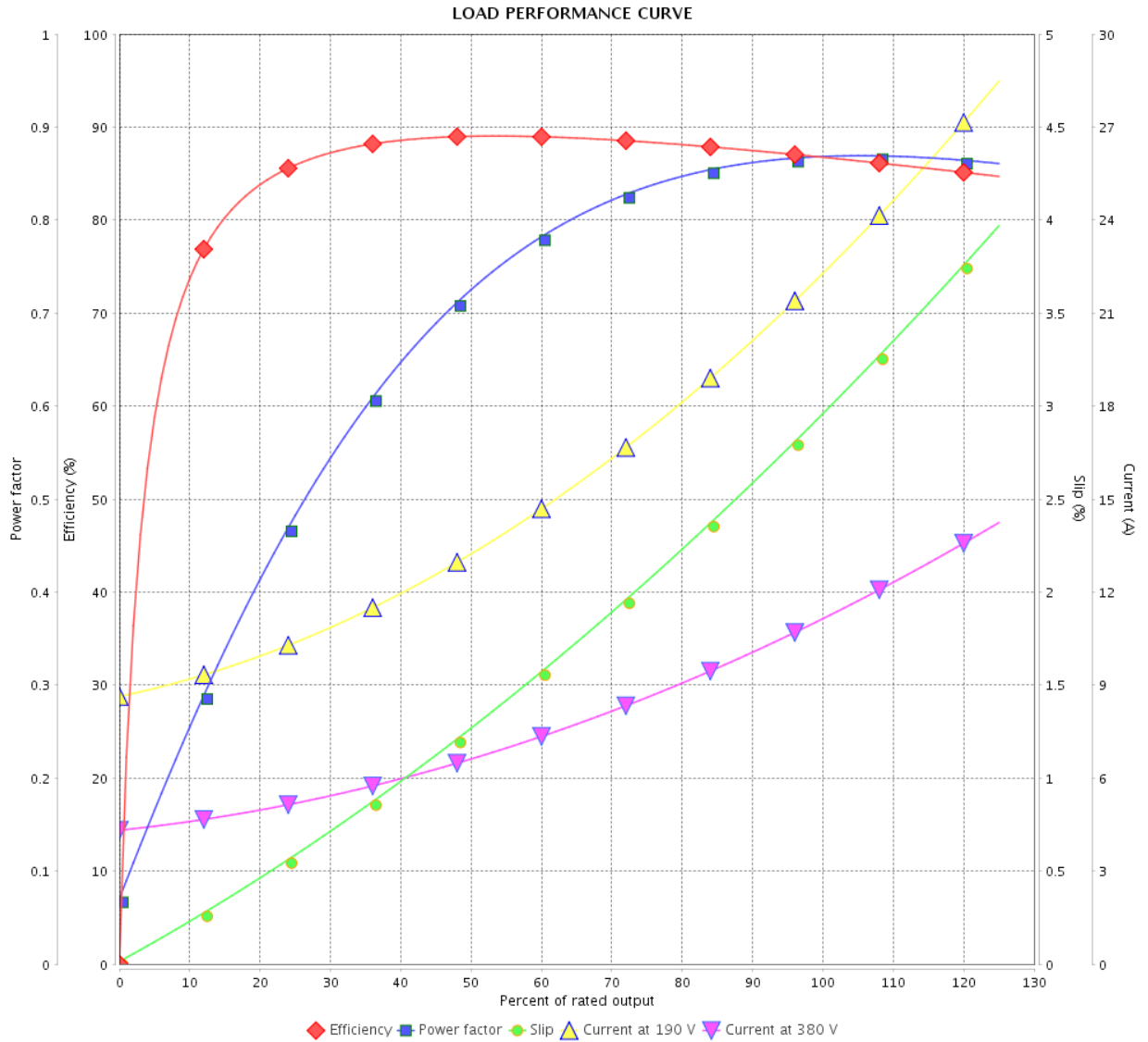
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



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

Product line : NEMA Premium Efficiency Three-Phase      Product code : 12674849



Performance : 190/380 V 50 Hz 4P

Rated current : 22.2/11.1 A  
 LRC : 5.8  
 Rated torque : 3.74 kgfm  
 Locked rotor torque : 170 %  
 Breakdown torque : 229 %  
 Rated speed : 1455 rpm

Moment of inertia (J) : 0.0433 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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# LOAD PERFORMANCE CURVE

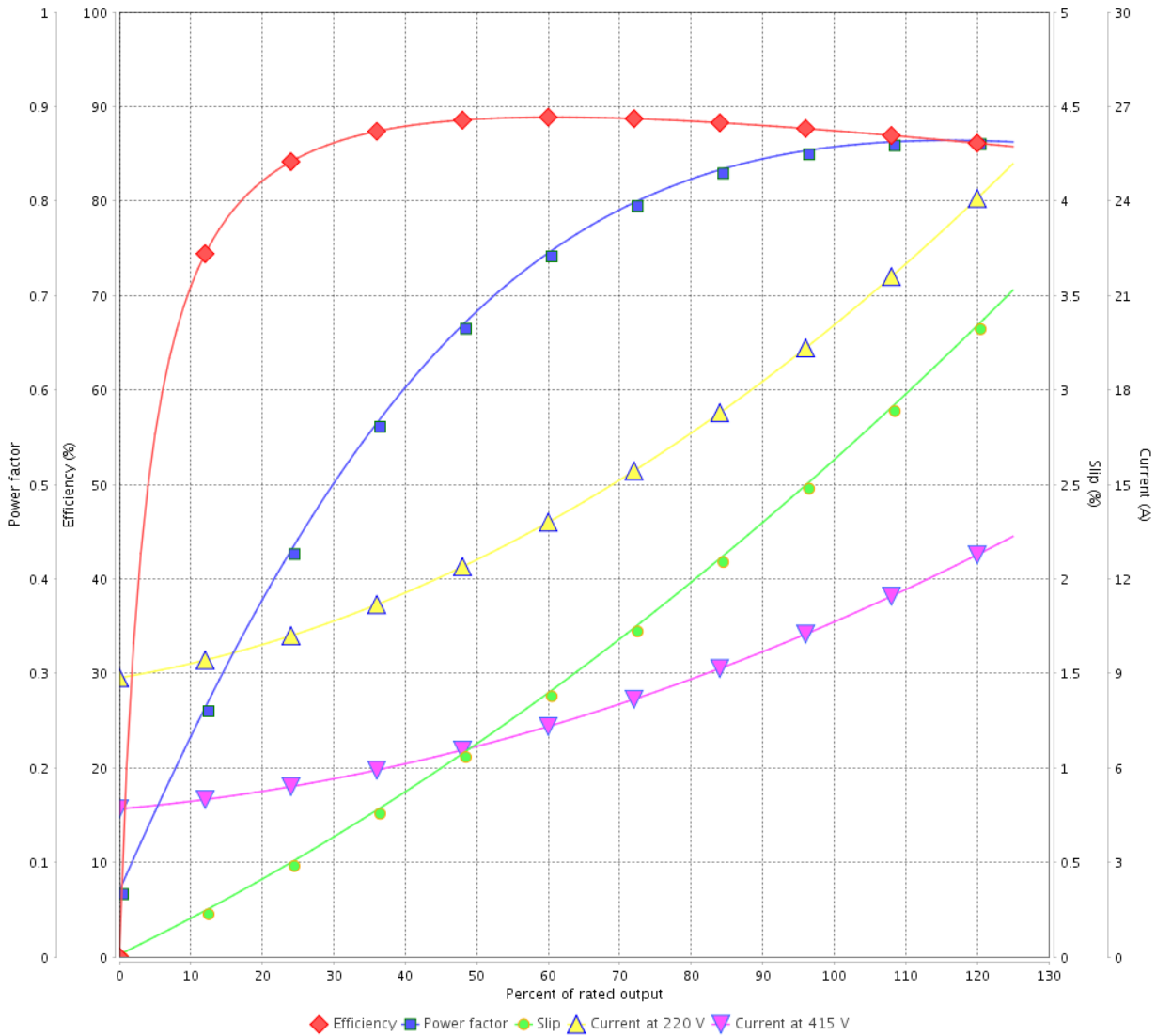
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase      Product code : 12674849

LOAD PERFORMANCE CURVE



Performance : 220/415 V 50 Hz 4P

Rated current : 20.0/10.6 A  
 LRC : 6.5  
 Rated torque : 3.73 kgfm  
 Locked rotor torque : 190 %  
 Breakdown torque : 250 %  
 Rated speed : 1460 rpm

Moment of inertia (J) : 0.0433 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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