

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer	:			
Product line	: Standard Efficiency Three-Phase	Product code :	12894764	
Frame	: 56HC	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>2</sup>	: 17.0 kg	
Protection degree	: IP55	Moment of inertia (J)	: 0.0052 kgm <sup>2</sup>	
Design	: A			
Output [HP]	2	1.5	1.5	
Poles	4	4	4	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	5.70/2.85	5.24/2.62	4.96/2.63	
L. R. Amperes [A]	41.6/20.8	38.3/19.1	38.2/20.3	
LRC [A]	7.3x(Code K)	7.3x(Code K)	7.7x(Code L)	
No load current [A]	3.33/1.66	3.23/1.61	3.52/1.87	
Rated speed [RPM]	1745	1445	1450	
Slip [%]	3.06	3.67	3.33	
Rated torque [kgfm]	0.832	0.753	0.751	
Locked rotor torque [%]	240	250	280	
Breakdown torque [%]	270	290	320	
Service factor		1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	14s (cold) 8s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level <sup>2</sup>	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)	
Efficiency (%)	25%	78.9	77.4	74.4
	50%	80.0	77.8	75.6
	75%	81.5	80.6	79.6
	100%	82.5	80.6	80.5
Power Factor	25%	0.33	0.32	0.29
	50%	0.58	0.57	0.52
	75%	0.72	0.71	0.66
	100%	0.80	0.79	0.75
Bearing type	: Drive end : 6204 ZZ	Non drive end : 6202 ZZ	Foundation loads	
Sealing	: V'Ring	Without Bearing Seal	Max. traction : 69 kgf	
Lubrication interval	: -	-	Max. compression : 86 kgf	
Lubricant amount	: -	-		
Lubricant type	: Mobil Polyrex EM			
Notes				
USABLE @208V 6.30A SF 1.00 SFA 6.30A				
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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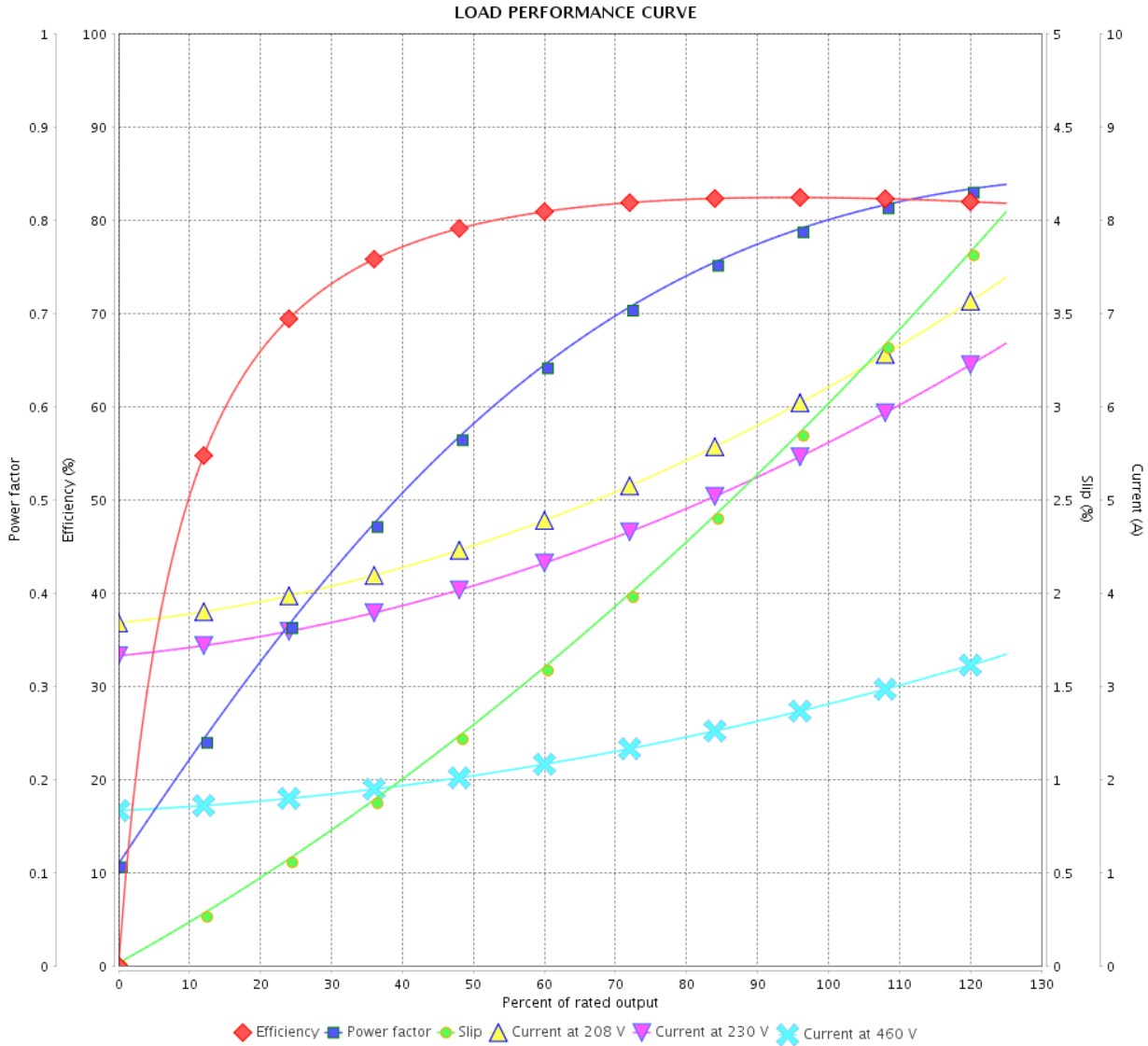
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12894764



Performance : 230/460 V 60 Hz 4P

Rated current : 5.70/2.85 A  
 LRC : 7.3  
 Rated torque : 0.832 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 270 %  
 Rated speed : 1745 rpm

Moment of inertia (J) : 0.0052 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : A

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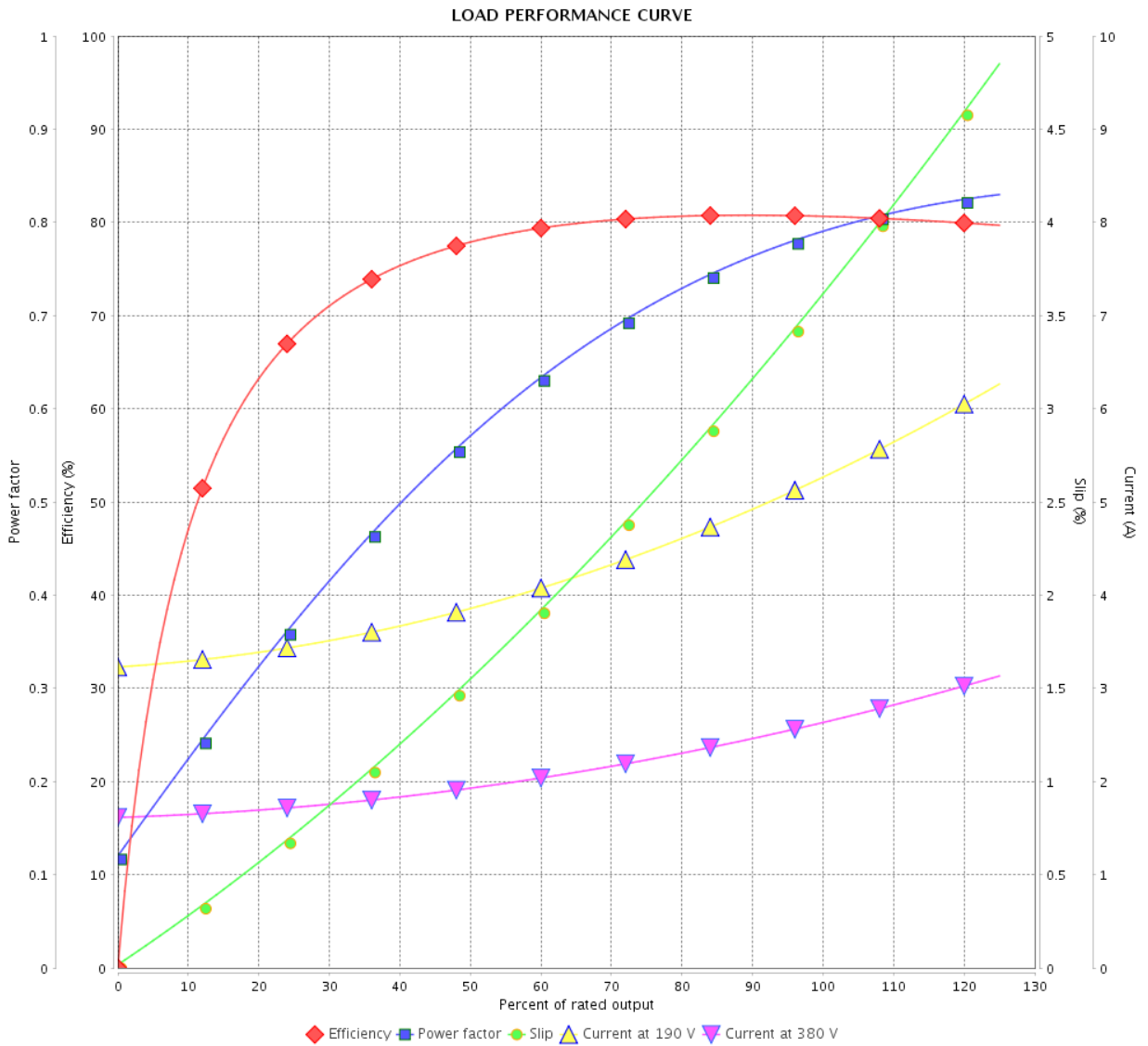
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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

Product line : Standard Efficiency Three-Phase      Product code : 12894764



Performance : 190/380 V 50 Hz 4P

Rated current : 5.24/2.62 A  
 LRC : 7.3  
 Rated torque : 0.753 kgfm  
 Locked rotor torque : 250 %  
 Breakdown torque : 290 %  
 Rated speed : 1445 rpm

Moment of inertia (J) : 0.0052 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : A

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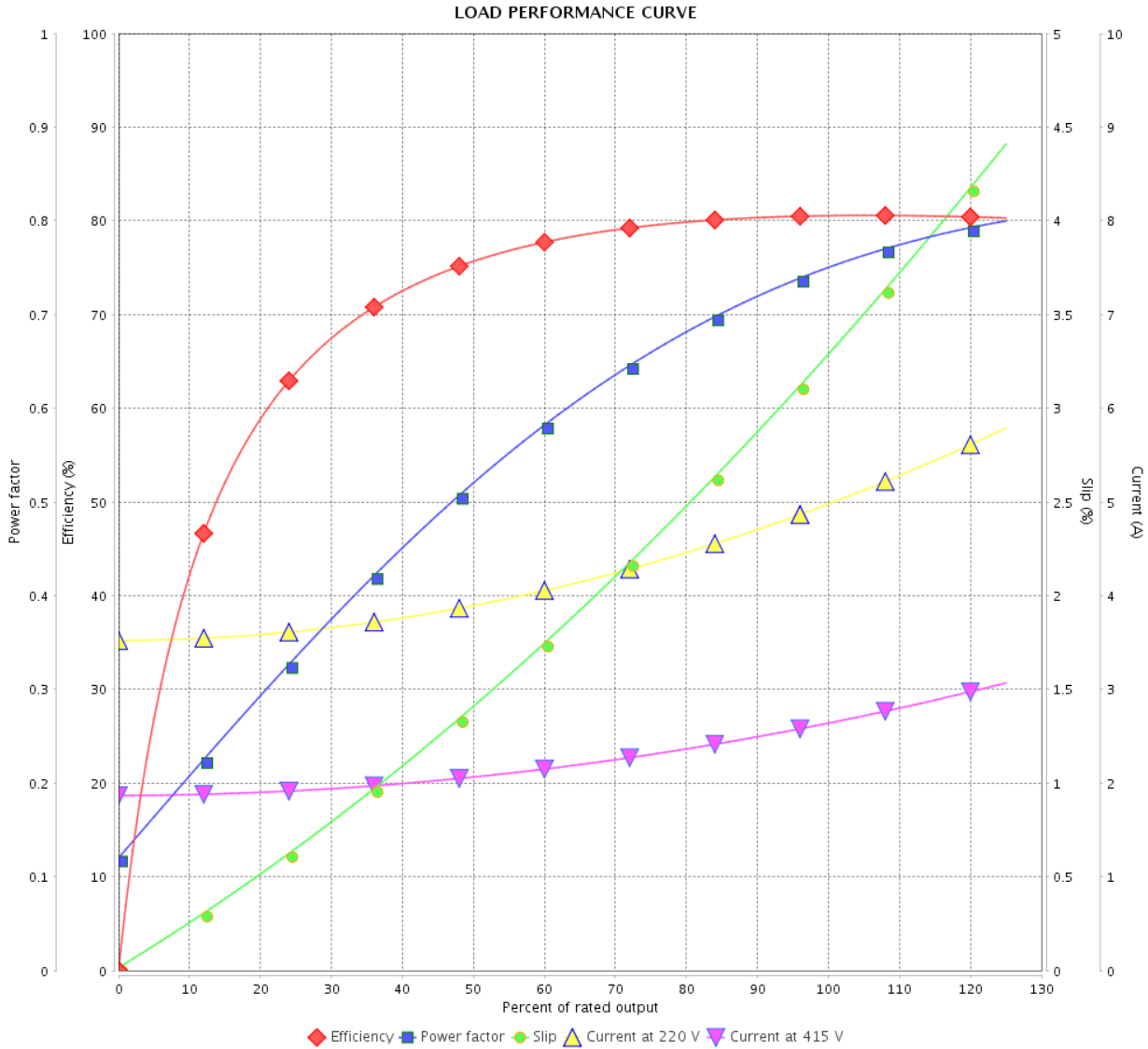
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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

Product line : Standard Efficiency Three-Phase      Product code : 12894764



Performance : 220/415 V 50 Hz 4P

Rated current : 4.96/2.63 A  
 LRC : 7.7  
 Rated torque : 0.751 kgfm  
 Locked rotor torque : 280 %  
 Breakdown torque : 320 %  
 Rated speed : 1450 rpm

Moment of inertia (J) : 0.0052 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : A

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