

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



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

Product line : Standard Efficiency Three-Phase Product code : 12894833

Frame	: 56C	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>	: 10.3 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0027 kgm <sup>2</sup>

Output [HP]	0.75	0.75	0.75
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	2.70-2.44/1.22	2.74/1.37	2.58/1.37
L. R. Amperes [A]	18.6-16.8/8.42	15.3/7.67	15.5/8.22
LRC [A]	6.9x(Code K)	5.6x(Code H)	6.0x(Code J)
No load current [A]	1.55-1.80/0.900	1.71/0.856	1.86/0.985
Rated speed [RPM]	1755	1440	1445
Slip [%]	2.50	4.00	3.67
Rated torque [kgfm]	0.310	0.378	0.377
Locked rotor torque [%]	240	170	200
Breakdown torque [%]	300	229	260
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	30s (cold) 17s (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%	70.4	72.6
	50%	72.0	73.1
	75%	77.0	76.5
	100%	78.5	76.5
Power Factor	25%	0.26	0.33
	50%	0.48	0.58
	75%	0.61	0.72
	100%	0.72	0.80

Bearing type	: 6203 ZZ	6202 ZZ	Foundation loads
	: V'Ring	Without Bearing Seal	
Lubrication interval	: -	-	Max. traction : 26 kgf
Lubricant amount	: -	-	Max. compression : 36 kgf
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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Date	13/05/2022			

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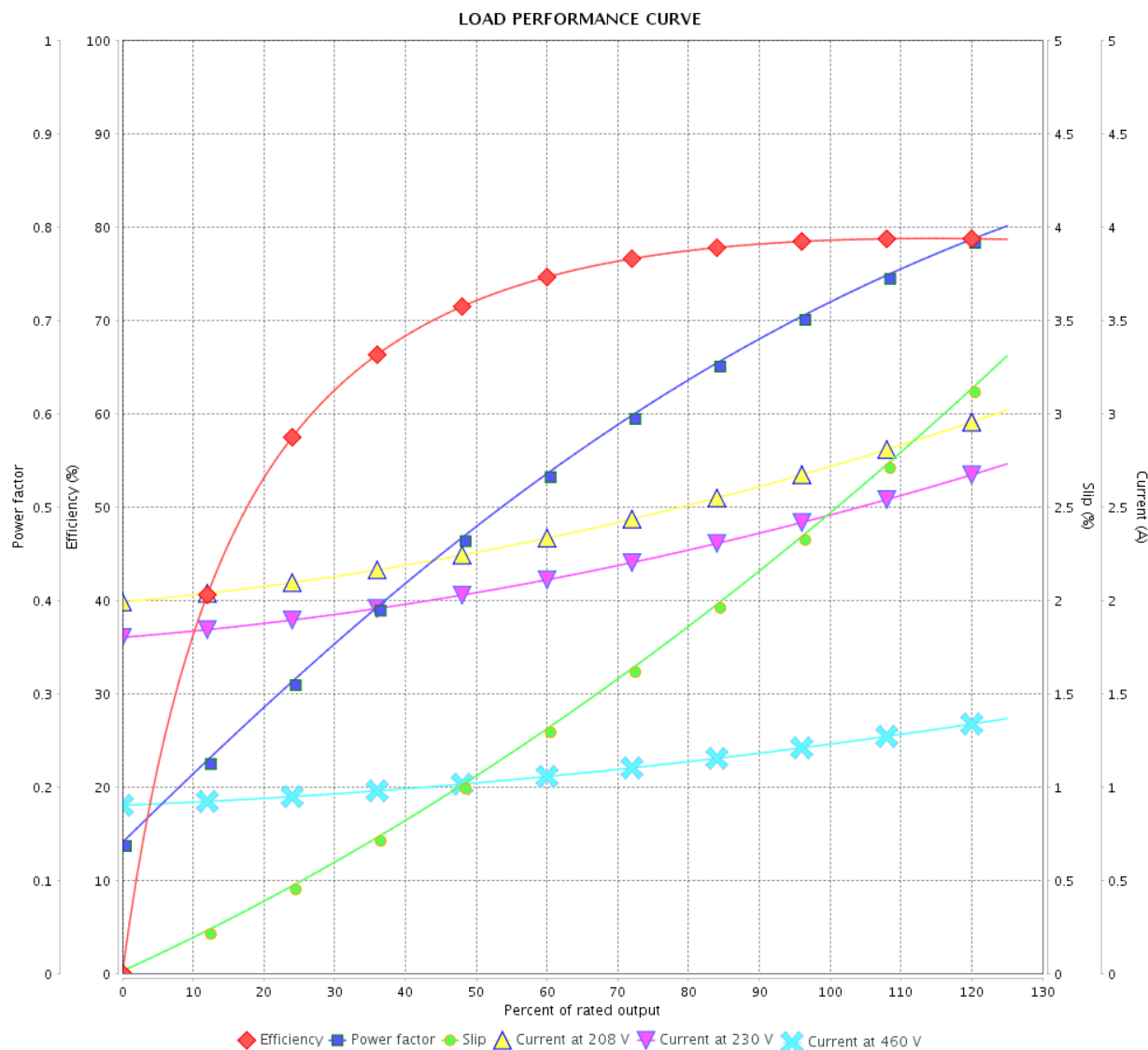
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12894833



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

Rated current : 2.70-2.44/1.22 A  
 LRC : 6.9  
 Rated torque : 0.310 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 300 %  
 Rated speed : 1755 rpm

Moment of inertia (J) : 0.0027 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K

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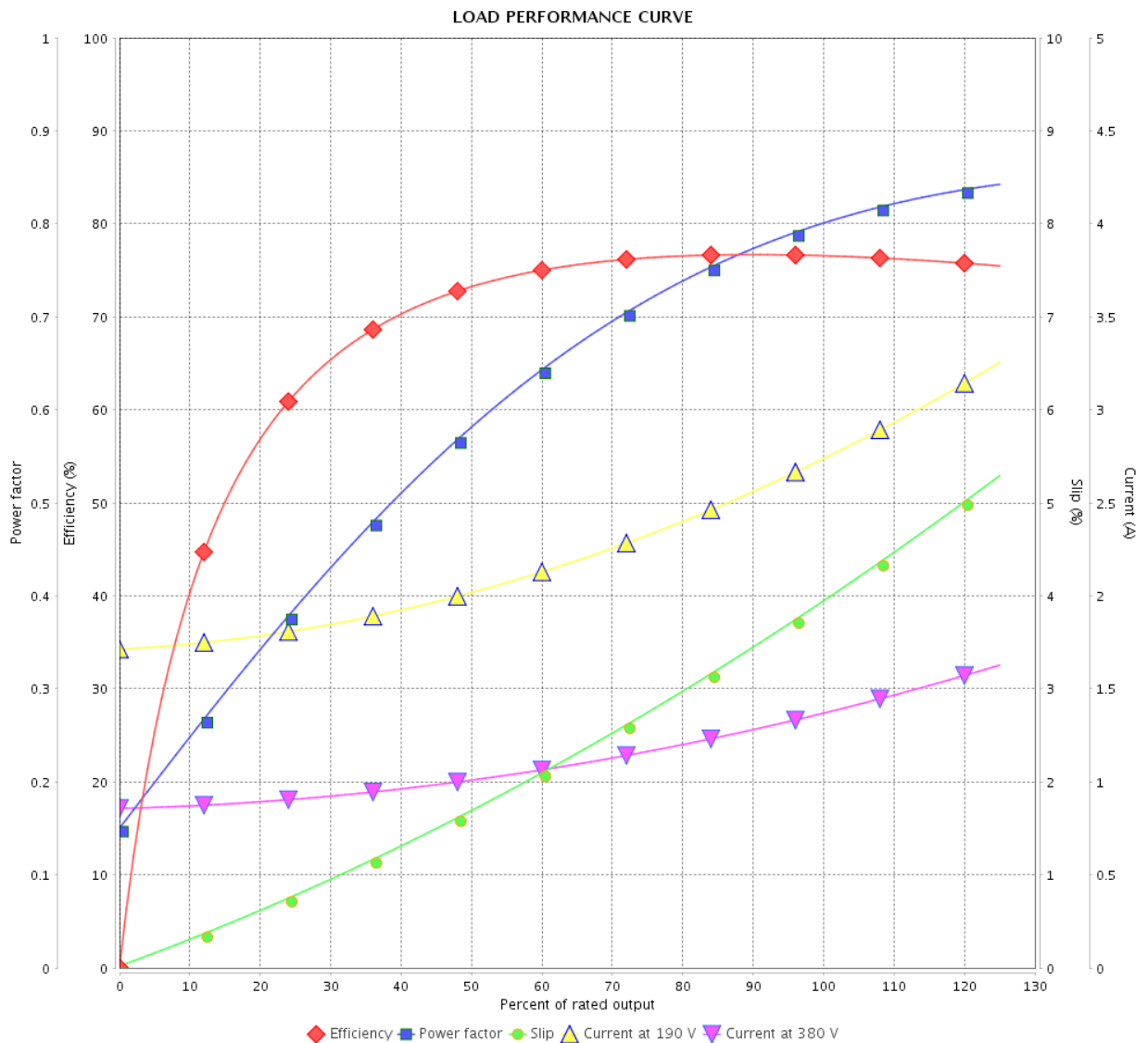
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12894833



Performance : 190/380 V 50 Hz 4P

Rated current : 2.74/1.37 A  
 LRC : 5.6  
 Rated torque : 0.378 kgfm  
 Locked rotor torque : 170 %  
 Breakdown torque : 229 %  
 Rated speed : 1440 rpm

Moment of inertia (J) : 0.0027 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

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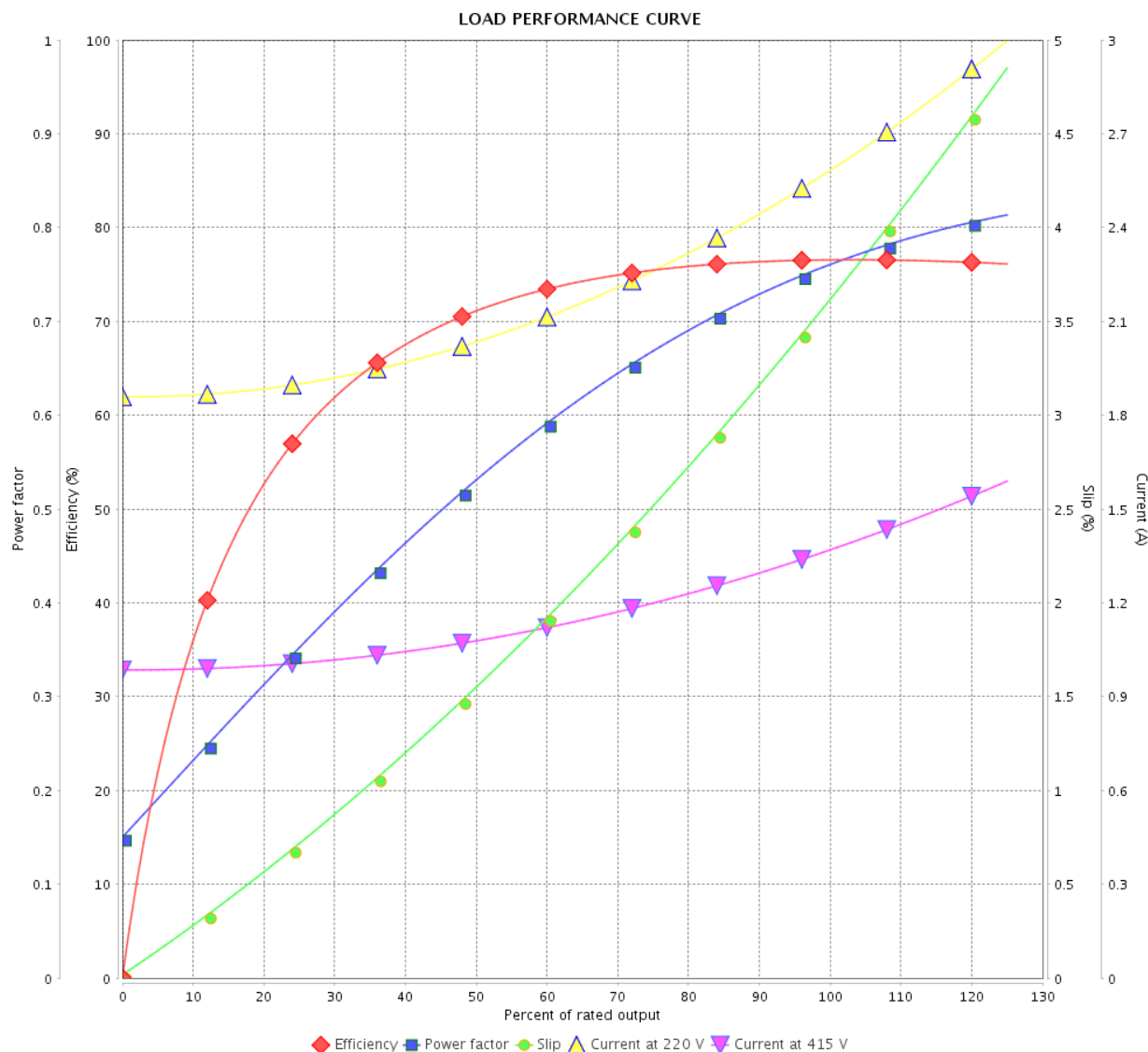
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12894833



Performance : 220/415 V 50 Hz 4P

Rated current : 2.58/1.37 A  
 LRC : 6.0  
 Rated torque : 0.377 kgfm  
 Locked rotor torque : 200 %  
 Breakdown torque : 260 %  
 Rated speed : 1445 rpm

Moment of inertia (J) : 0.0027 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

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