

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13572090

Frame	: 56	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>	: 12.2 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0033 kgm <sup>2</sup>
Design	: A		

Output [HP]	1.5	1	1
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	3.98/1.99	3.28/1.64	3.02/1.60
L. R. Amperes [A]	28.7/14.3	26.2/13.1	27.2/14.4
LRC [A]	7.2x(Code J)	8.0x(Code K)	9.0x(Code M)
No load current [A]	1.63/0.815	1.57/0.786	1.84/0.977
Rated speed [RPM]	3460	2885	2905
Slip [%]	3.89	3.83	3.17
Rated torque [kgfm]	0.315	0.252	0.250
Locked rotor torque [%]	240	270	330
Breakdown torque [%]	270	320	380
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	21s (cold) 12s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level <sup>2</sup>	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%		
	50%	72.0	71.6
	75%	75.5	76.8
	100%	77.0	78.7
Power Factor	25%		
	50%	0.76	0.62
	75%	0.85	0.74
	100%	0.90	0.83

	Drive end	Non drive end	Foundation loads
Bearing type	: 6204 ZZ	6202 ZZ	Max. traction : 24 kgf
Sealing	: V'Ring	V'Ring	Max. compression : 36 kgf
Lubrication interval	: -	-	
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

### Notes

USABLE @208V 4.40A SF 1.00 SFA 4.40A

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	Checked	Date
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Checked by				
Date	11/05/2022			

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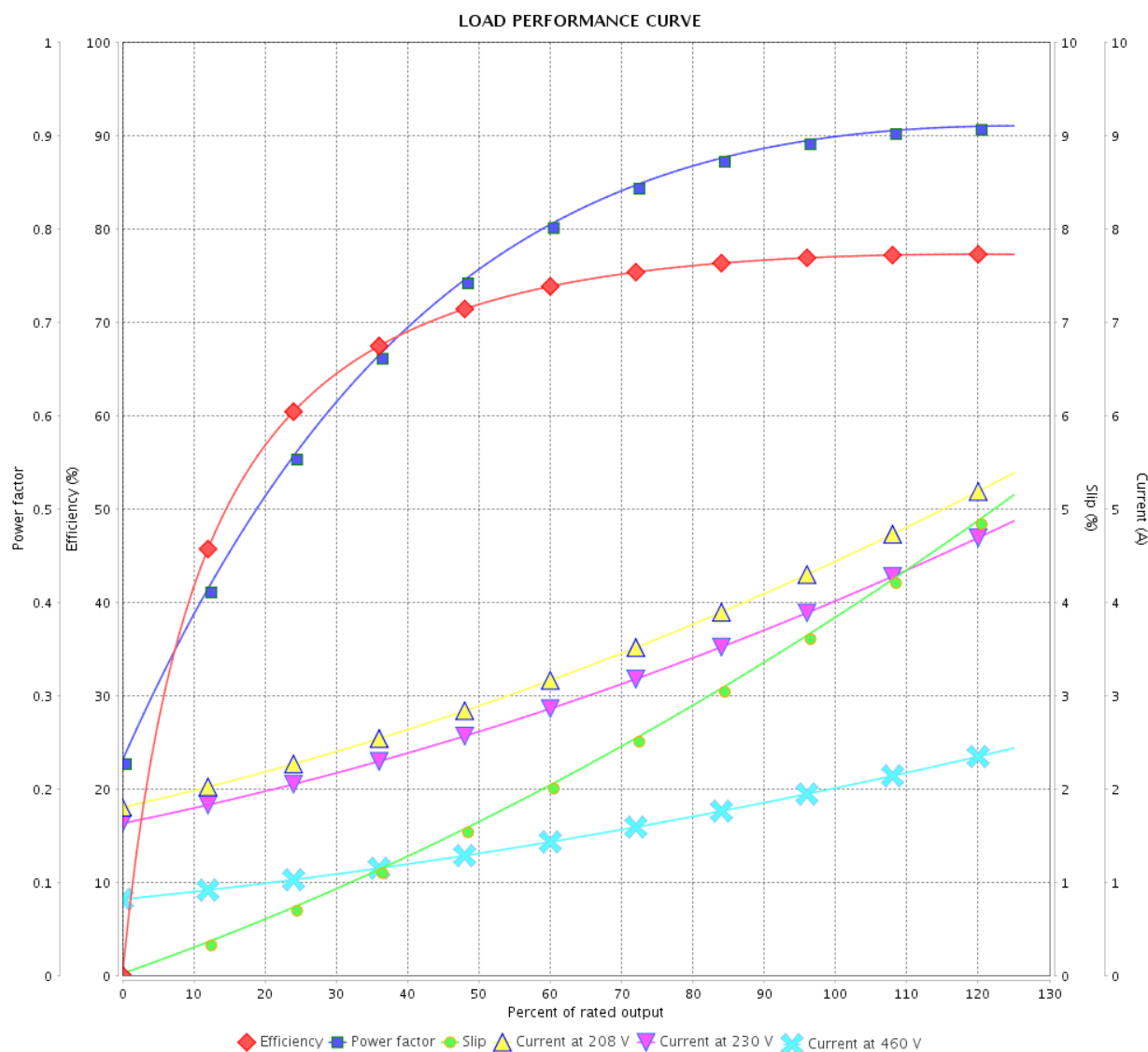
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13572090



Performance : 230/460 V 60 Hz 2P

Rated current : 3.98/1.99 A  
 LRC : 7.2  
 Rated torque : 0.315 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 270 %  
 Rated speed : 3460 rpm

Moment of inertia (J) : 0.0033 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : A

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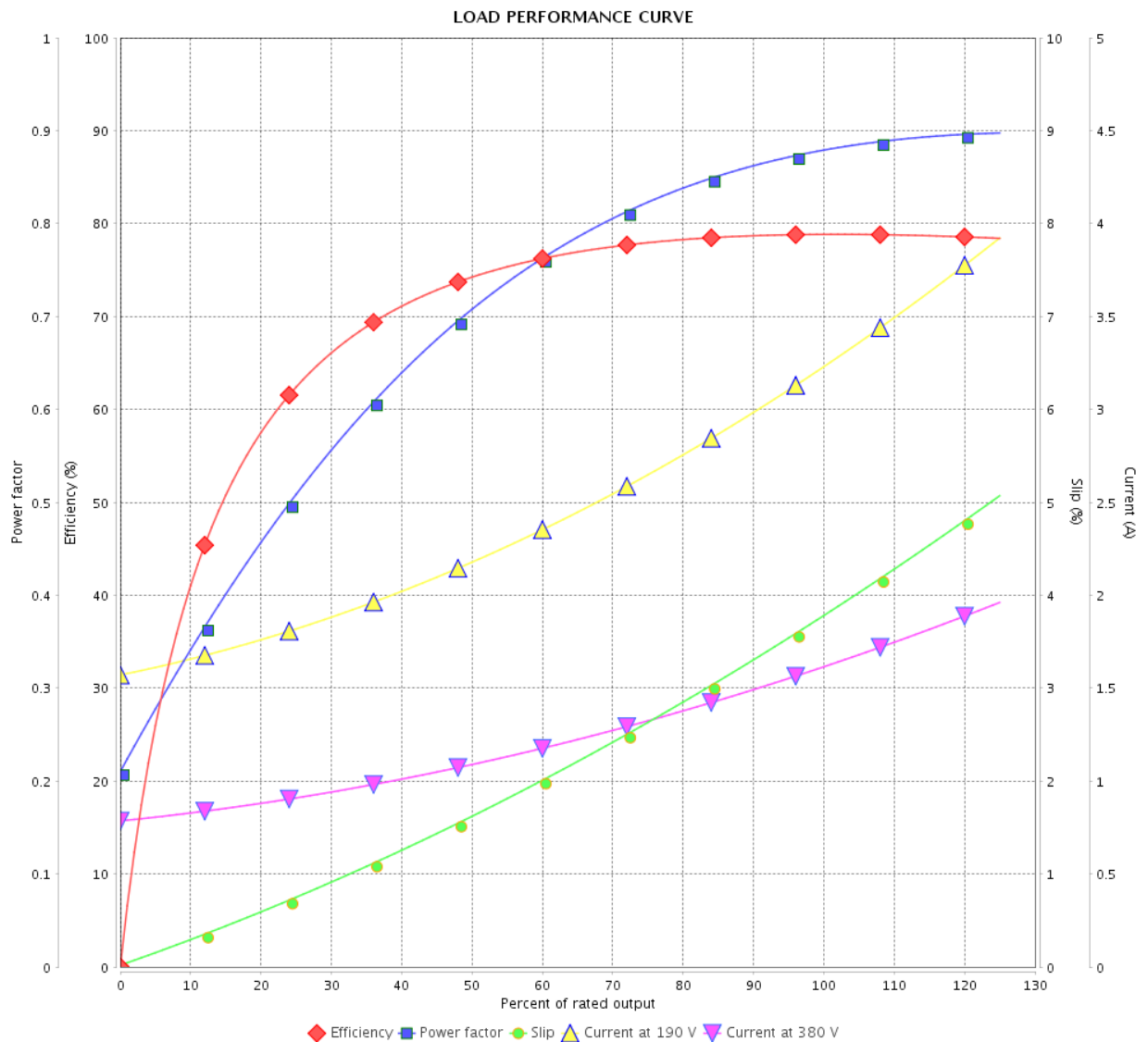
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13572090



Performance : 190/380 V 50 Hz 2P

Rated current : 3.28/1.64 A  
 LRC : 8.0  
 Rated torque : 0.252 kgfm  
 Locked rotor torque : 270 %  
 Breakdown torque : 320 %  
 Rated speed : 2885 rpm

Moment of inertia (J) : 0.0033 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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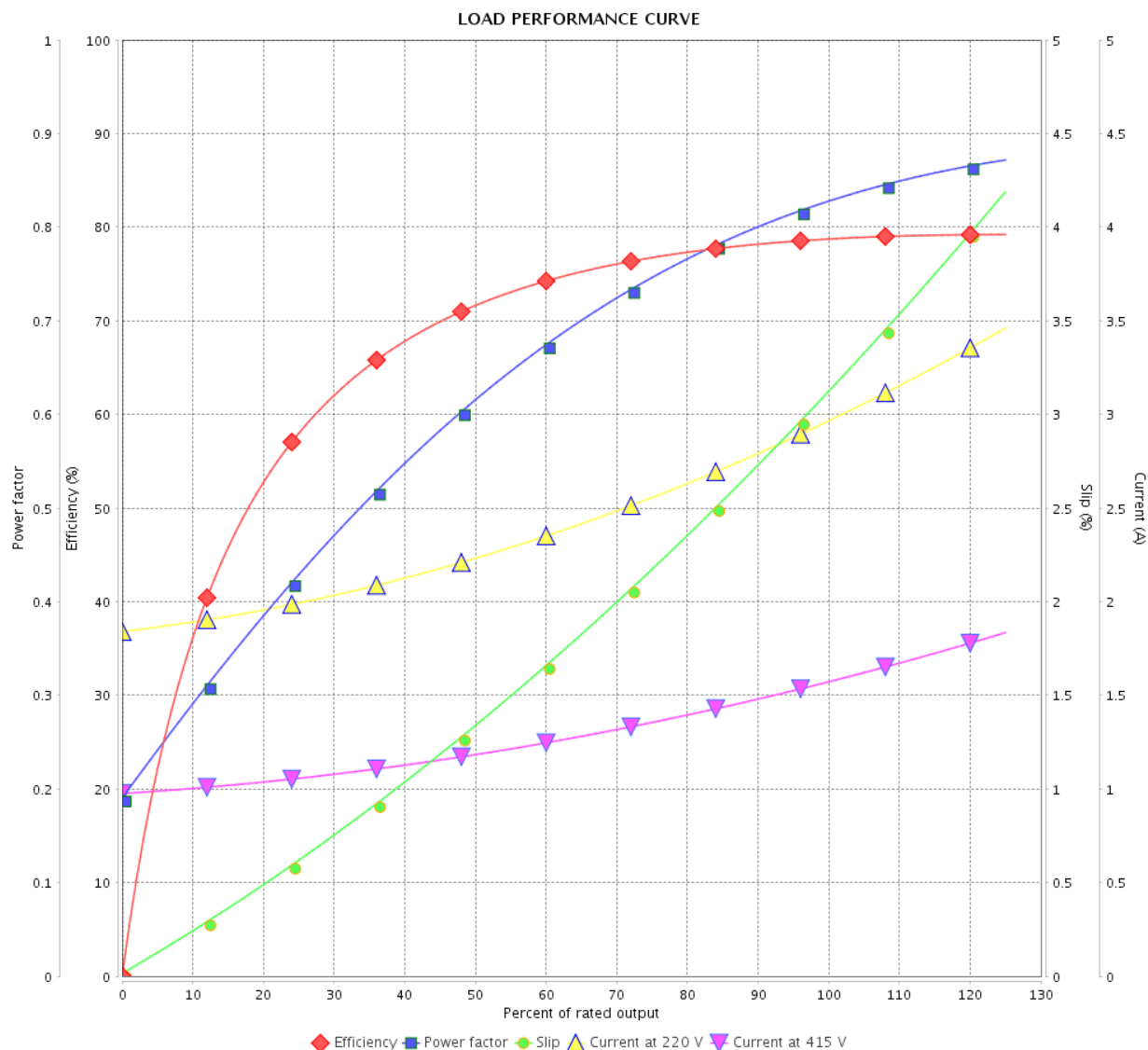
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13572090



Performance : 220/415 V 50 Hz 2P

Rated current : 3.02/1.60 A  
 LRC : 9.0  
 Rated torque : 0.250 kgfm  
 Locked rotor torque : 330 %  
 Breakdown torque : 380 %  
 Rated speed : 2905 rpm

Moment of inertia (J) : 0.0033 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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