

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13880821

Frame	: W56	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>	: 7.2 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0013 kgm <sup>2</sup>

Output [HP]	0.33	0.33	0.33
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	1.46-1.32/0.659	1.46/0.730	1.40/0.744
L. R. Amperes [A]	7.88-7.12/3.56	5.99/2.99	6.18/3.27
LRC [A]	5.4x(Code K)	4.1x(Code G)	4.4x(Code J)
No load current [A]	0.919-1.07/0.533	1.04/0.519	1.18/0.625
Rated speed [RPM]	1730	1400	1420
Slip [%]	3.89	6.67	5.33
Rated torque [kgfm]	0.138	0.171	0.169
Locked rotor torque [%]	229	170	190
Breakdown torque [%]	270	200	240
Service factor		1.00	1.00
Temperature rise	80 K	80 K	80 K
Locked rotor time	37s (cold) 21s (hot)	45s (cold) 25s (hot)	37s (cold) 21s (hot)
Noise level <sup>2</sup>	50.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%		
	50%	57.5	59.0
	75%	64.0	64.0
	100%	68.0	65.0
Power Factor	25%		
	50%	0.48	0.56
	75%	0.60	0.70
	100%	0.70	0.80

	<u>Drive end</u>	<u>Non drive end</u>	
Bearing type	: 6203 ZZ	6202 ZZ	Foundation loads
Sealing	: V'Ring	V'Ring	Max. traction : 9 kgf
Lubrication interval	: -	-	Max. compression : 16 kgf
Lubricant amount	: -	-	
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	11/05/2022			

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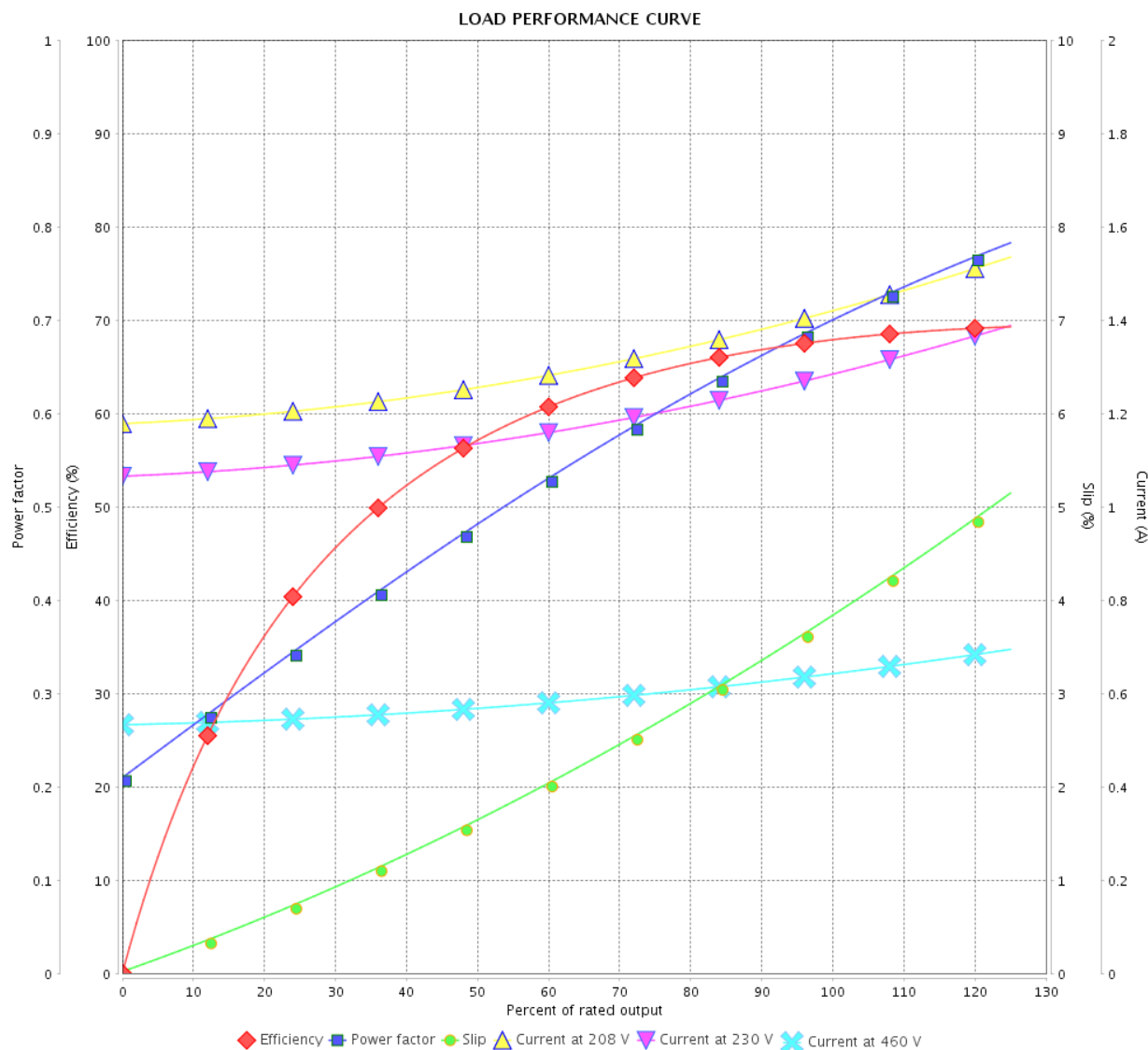
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13880821



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

Rated current : 1.46-1.32/0.659 A  
 LRC : 5.4  
 Rated torque : 0.138 kgfm  
 Locked rotor torque : 229 %  
 Breakdown torque : 270 %  
 Rated speed : 1730 rpm

Moment of inertia (J) : 0.0013 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K

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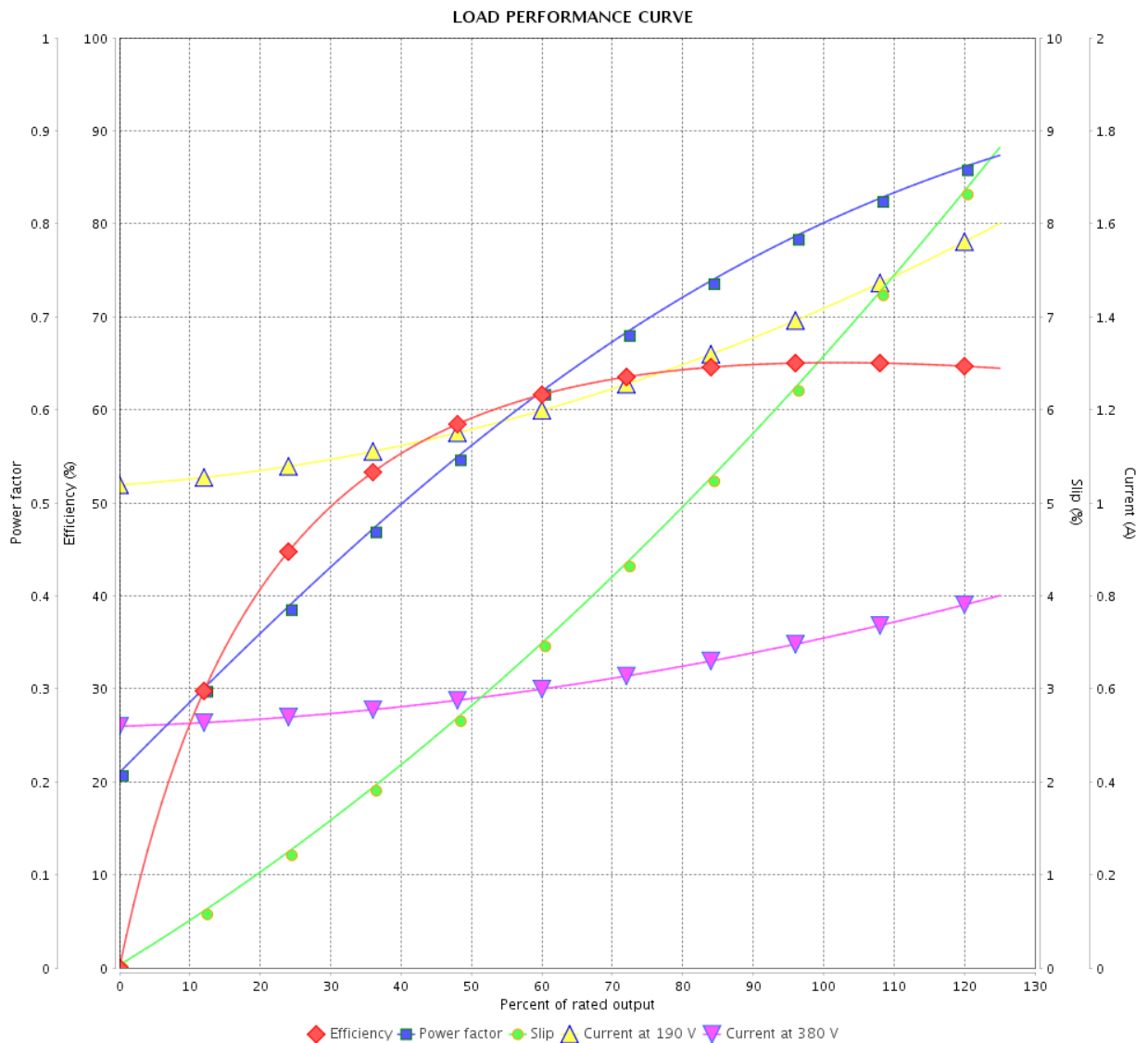
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13880821



Performance : 190/380 V 50 Hz 4P

Rated current : 1.46/0.730 A  
 LRC : 4.1  
 Rated torque : 0.171 kgfm  
 Locked rotor torque : 170 %  
 Breakdown torque : 200 %  
 Rated speed : 1400 rpm

Moment of inertia (J) : 0.0013 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K

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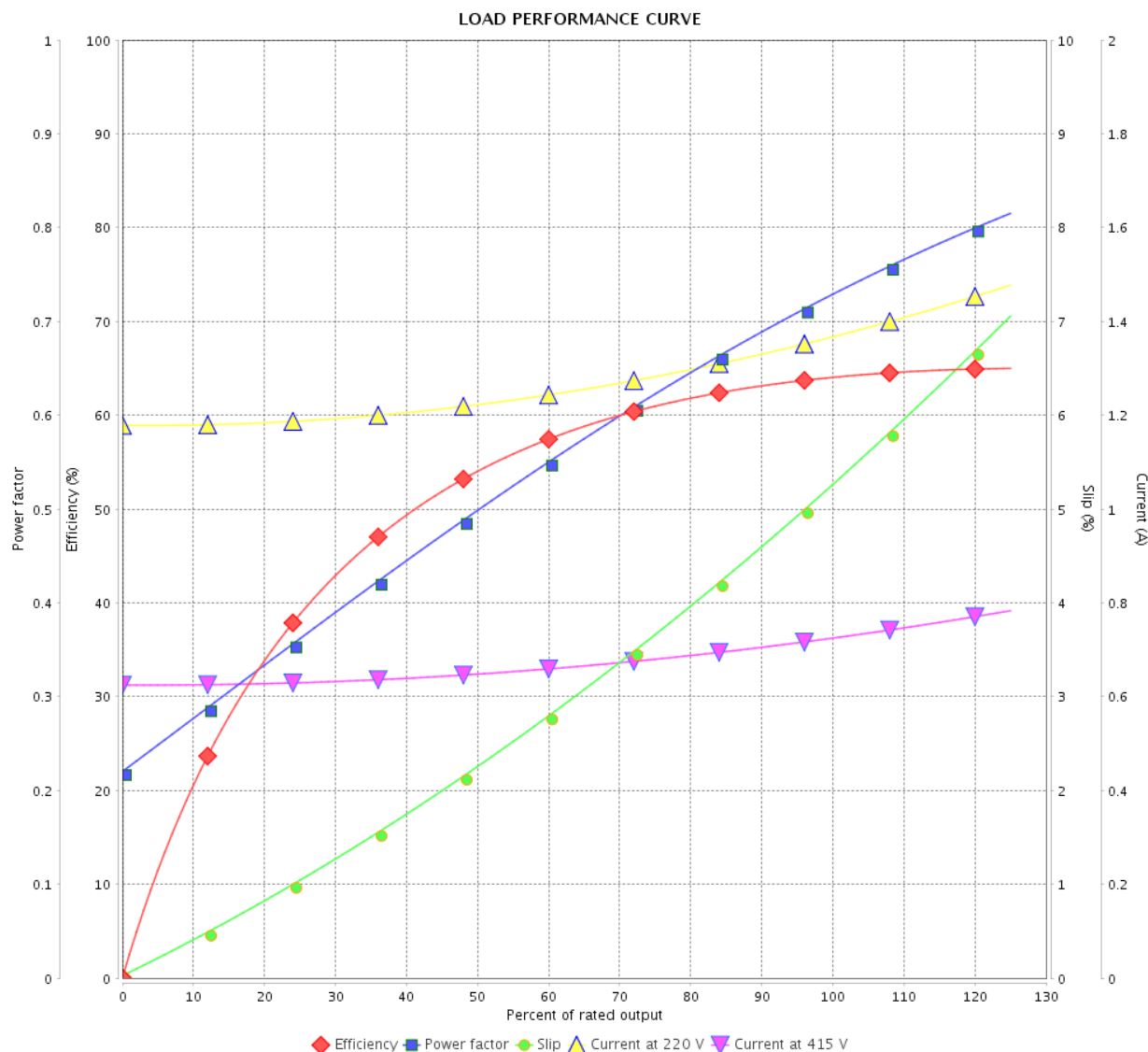
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13880821



Performance : 220/415 V 50 Hz 4P

Rated current : 1.40/0.744 A  
 LRC : 4.4  
 Rated torque : 0.169 kgfm  
 Locked rotor torque : 190 %  
 Breakdown torque : 240 %  
 Rated speed : 1420 rpm

Moment of inertia (J) : 0.0013 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K

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