

# 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>2</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
Bearing type	: <u>Drive end</u> 6203 ZZ <u>Non drive end</u> 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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# LOAD PERFORMANCE CURVE

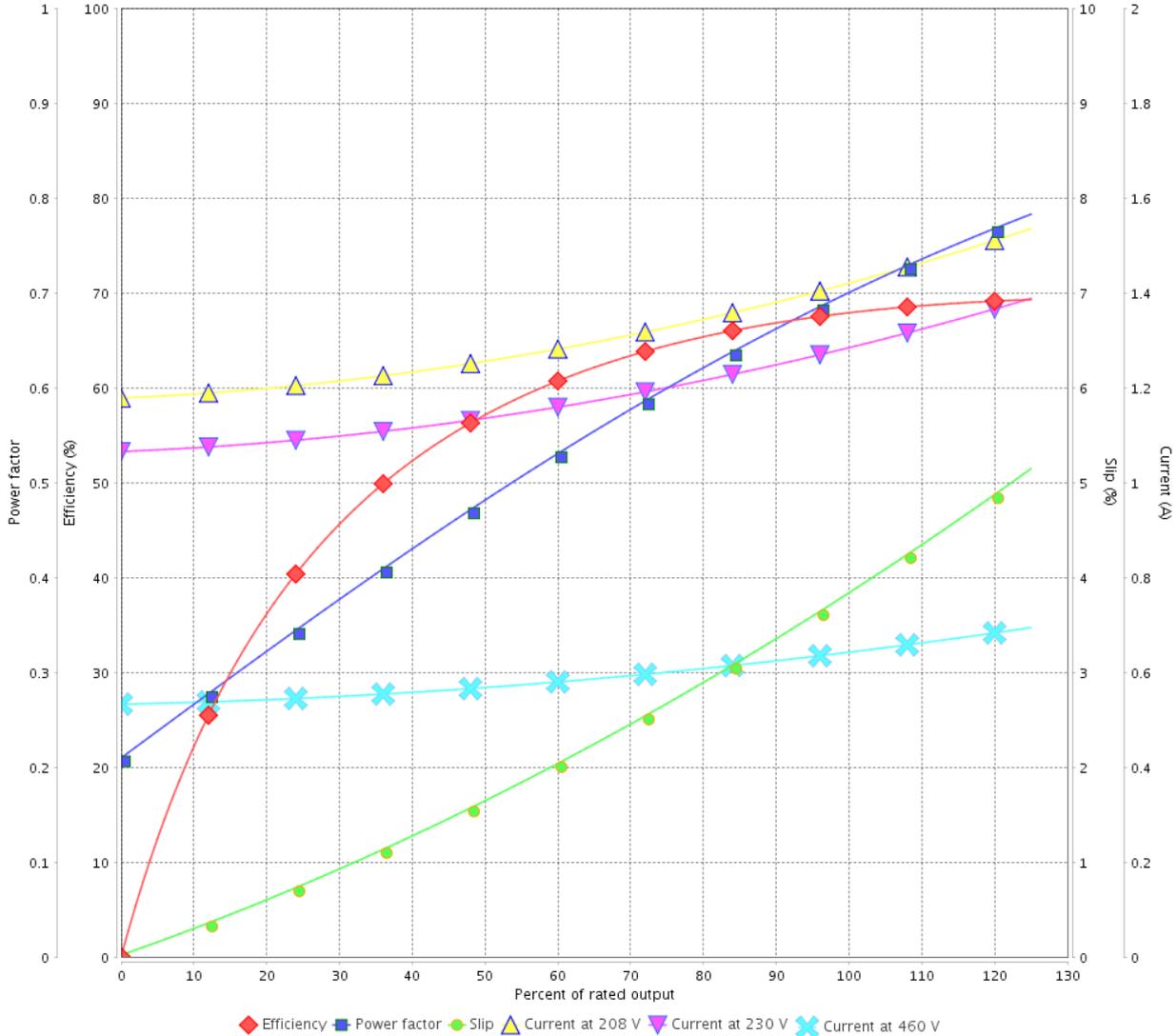
Three Phase Induction Motor - Squirrel Cage



Customer :

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

LOAD PERFORMANCE CURVE



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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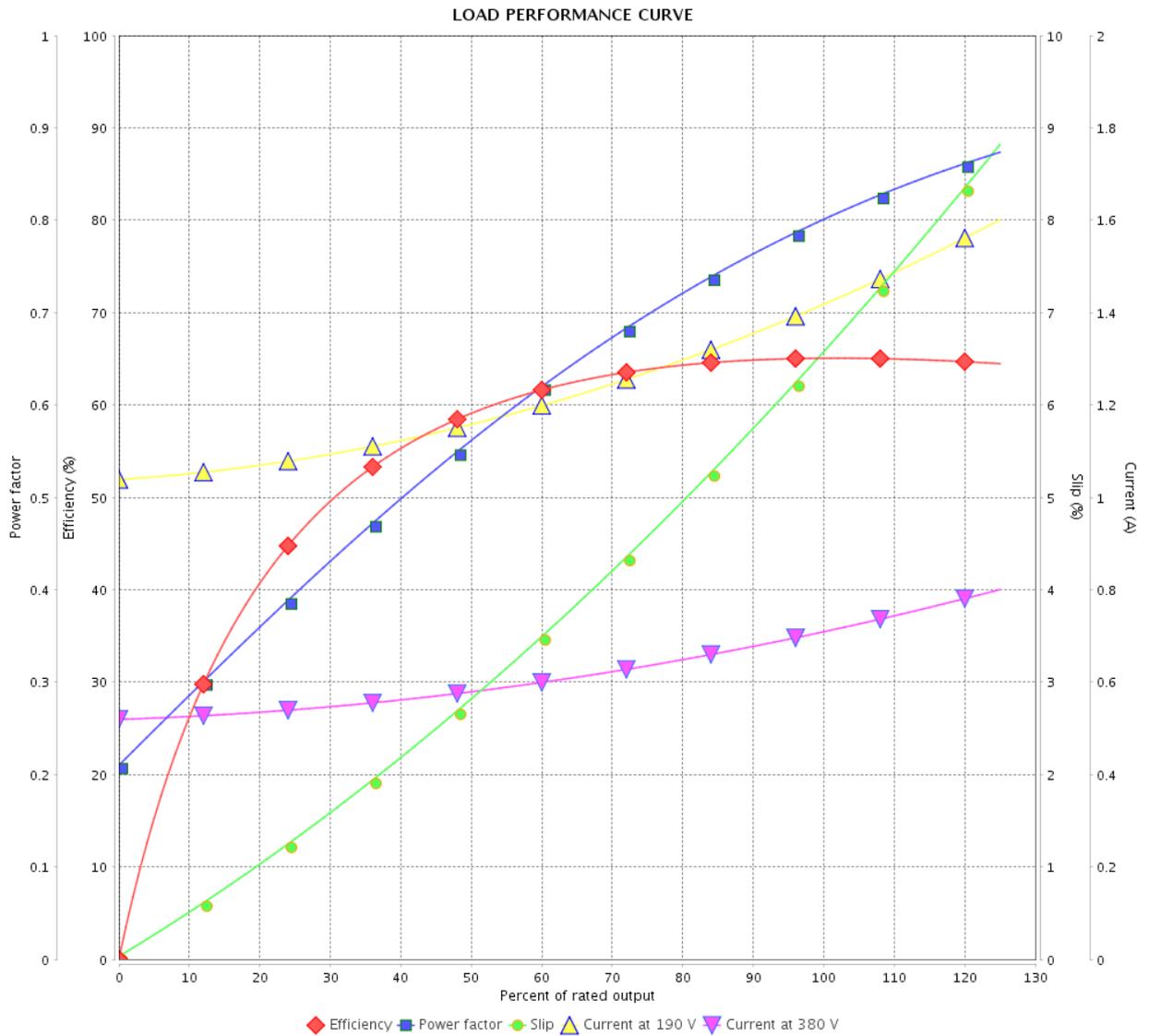
# LOAD PERFORMANCE CURVE

## 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

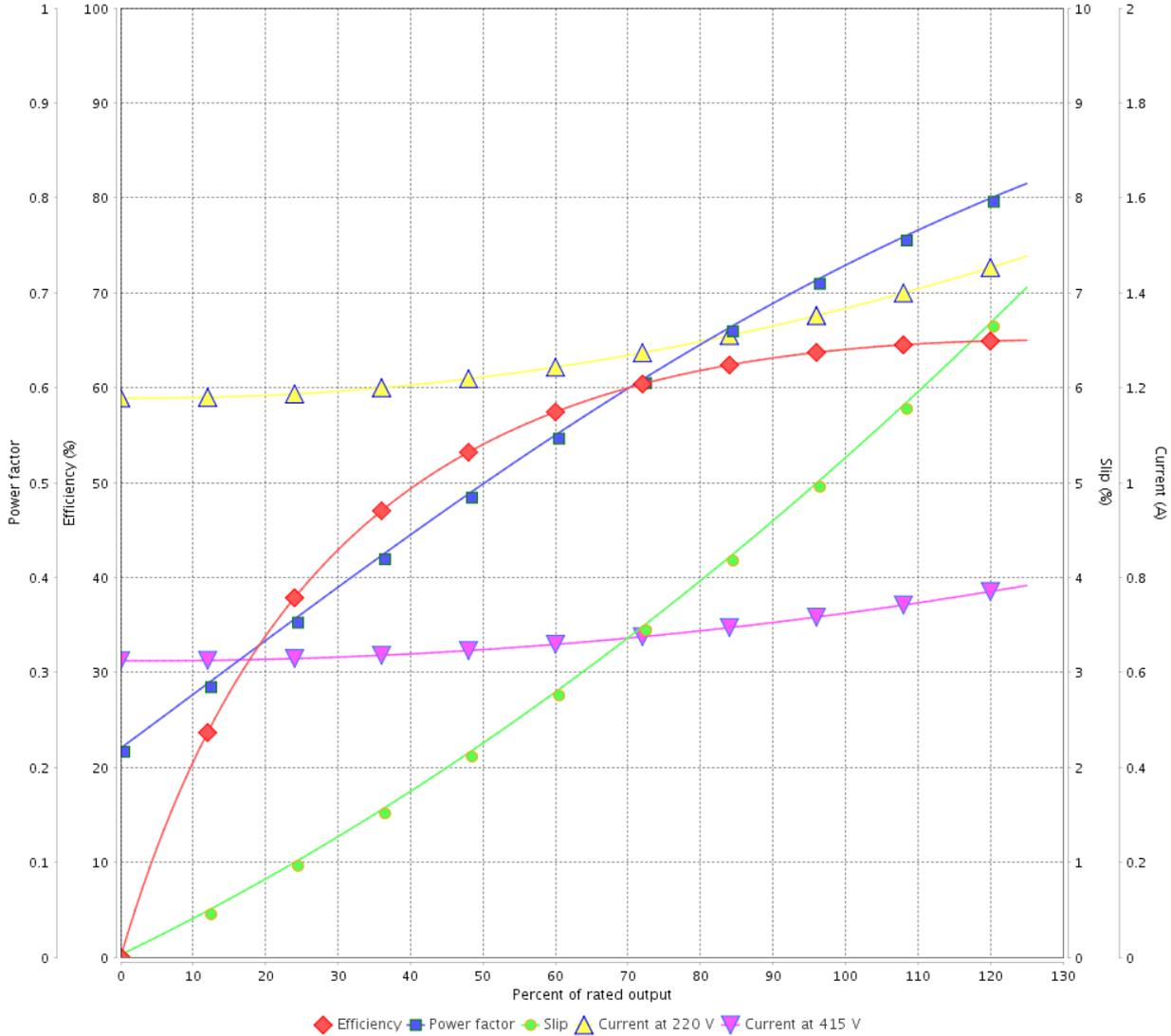
Three Phase Induction Motor - Squirrel Cage



Customer :

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

LOAD PERFORMANCE CURVE



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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