

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :		
Product line	: Standard Efficiency Three-Phase	
Product code	: 12894800	
Frame	: 56C	
Insulation class	: F	
Duty cycle	: Cont.(S1)	
Ambient temperature	: -20°C to +40°C	
Altitude	: 1000 m.a.s.l.	
Protection degree	: IP55	
Design	: A	
Cooling method	: IC411 - TEFC	
Mounting	: F-1	
Rotation <sup>1</sup>	: Both (CW and CCW)	
Starting method	: Direct On Line	
Approx. weight <sup>2</sup>	: 12.3 kg	
Moment of inertia (J)	: 0.0036 kgm <sup>2</sup>	
Output [HP]	1	
Poles	4	
Frequency [Hz]	60	
Rated voltage [V]	230/460	
Rated current [A]	3.32/1.66	
L. R. Amperes [A]	25.6/12.8	
LRC [A]	7.7x(Code M)	
No load current [A]	2.40/1.20	
Rated speed [RPM]	1760	
Slip [%]	2.22	
Rated torque [kgfm]	0.412	
Locked rotor torque [%]	270	
Breakdown torque [%]	300	
Service factor	1.15	
Temperature rise	80 K	
Locked rotor time	21s (cold) 12s (hot)	
Noise level <sup>2</sup>	52.0 dB(A)	
Efficiency (%)	25%	72.4
	50%	74.0
	75%	78.5
	100%	80.0
Power Factor	25%	0.26
	50%	0.48
	75%	0.62
	100%	0.71
Bearing type	: Drive end 6204 ZZ Non drive end 6202 ZZ	
Sealing	: V'Ring Without Bearing Seal	
Lubrication interval	: -	
Lubricant amount	: -	
Lubricant type	: Mobil Polyrex EM	
Foundation loads	Max. traction : 40 kgf	
	Max. compression : 53 kgf	
Notes		
USABLE @208V 3.67A SF 1.00 SFA 3.67A		
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 by	Performed	
Checked by	Checked	
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Revision		

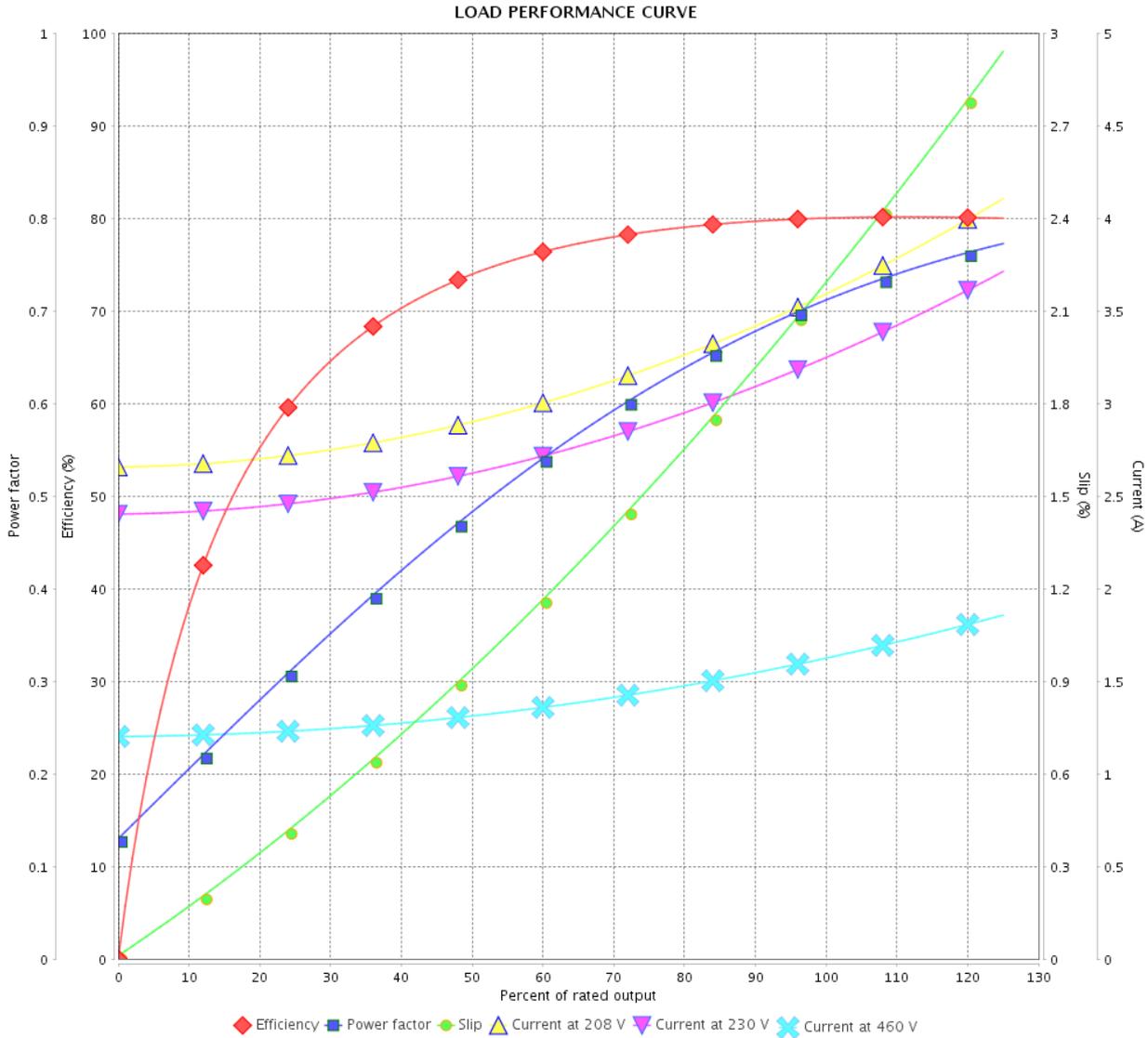
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12894800



Performance : 230/460 V 60 Hz 4P

Rated current : 3.32/1.66 A  
 LRC : 7.7  
 Rated torque : 0.412 kgfm  
 Locked rotor torque : 270 %  
 Breakdown torque : 300 %  
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.0036 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
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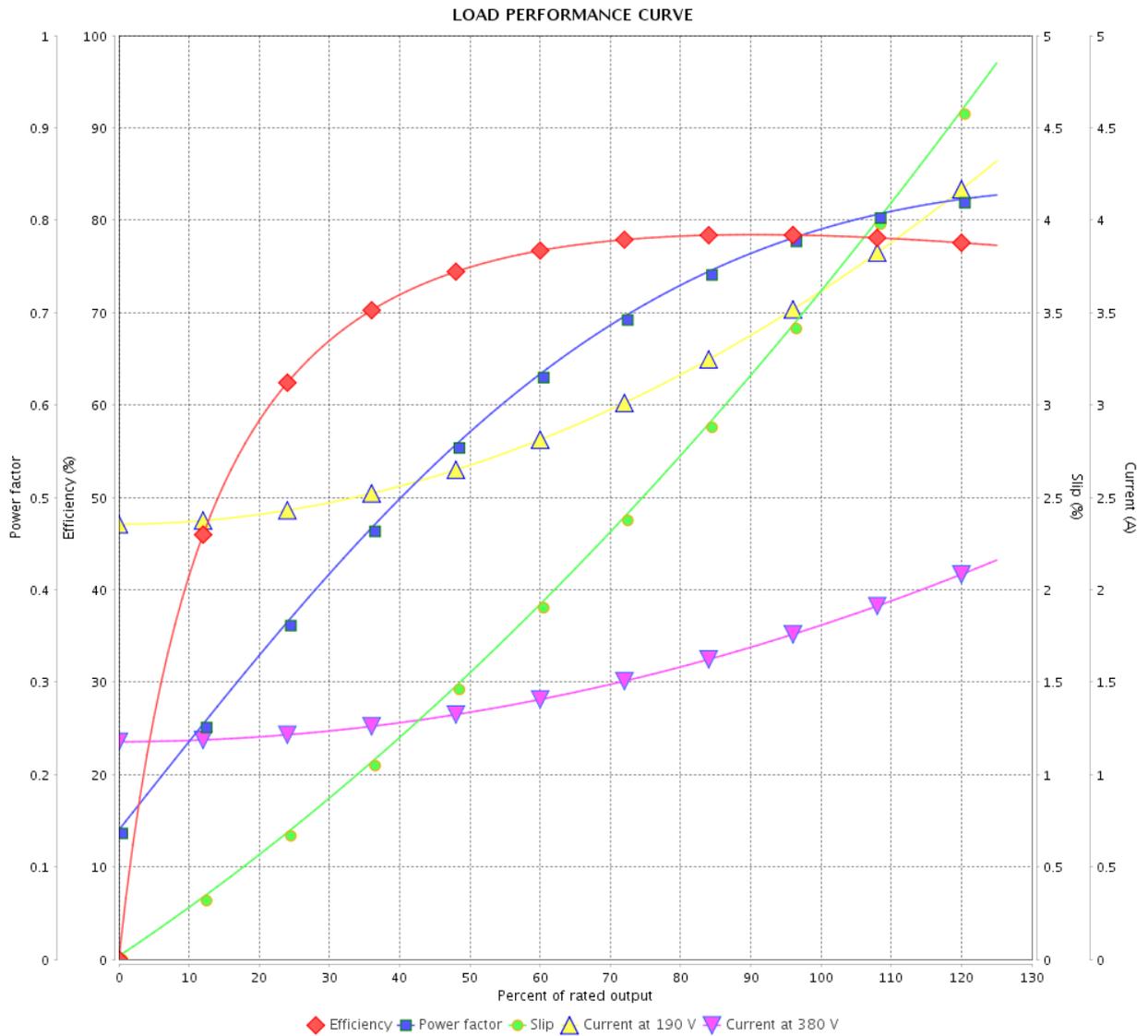
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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

Product line : Standard Efficiency Three-Phase      Product code : 12894800



Performance : 190/380 V 50 Hz 4P

Rated current : 3.68/1.84 A  
 LRC : 6.3  
 Rated torque : 0.502 kgfm  
 Locked rotor torque : 200 %  
 Breakdown torque : 260 %  
 Rated speed : 1445 rpm

Moment of inertia (J) : 0.0036 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
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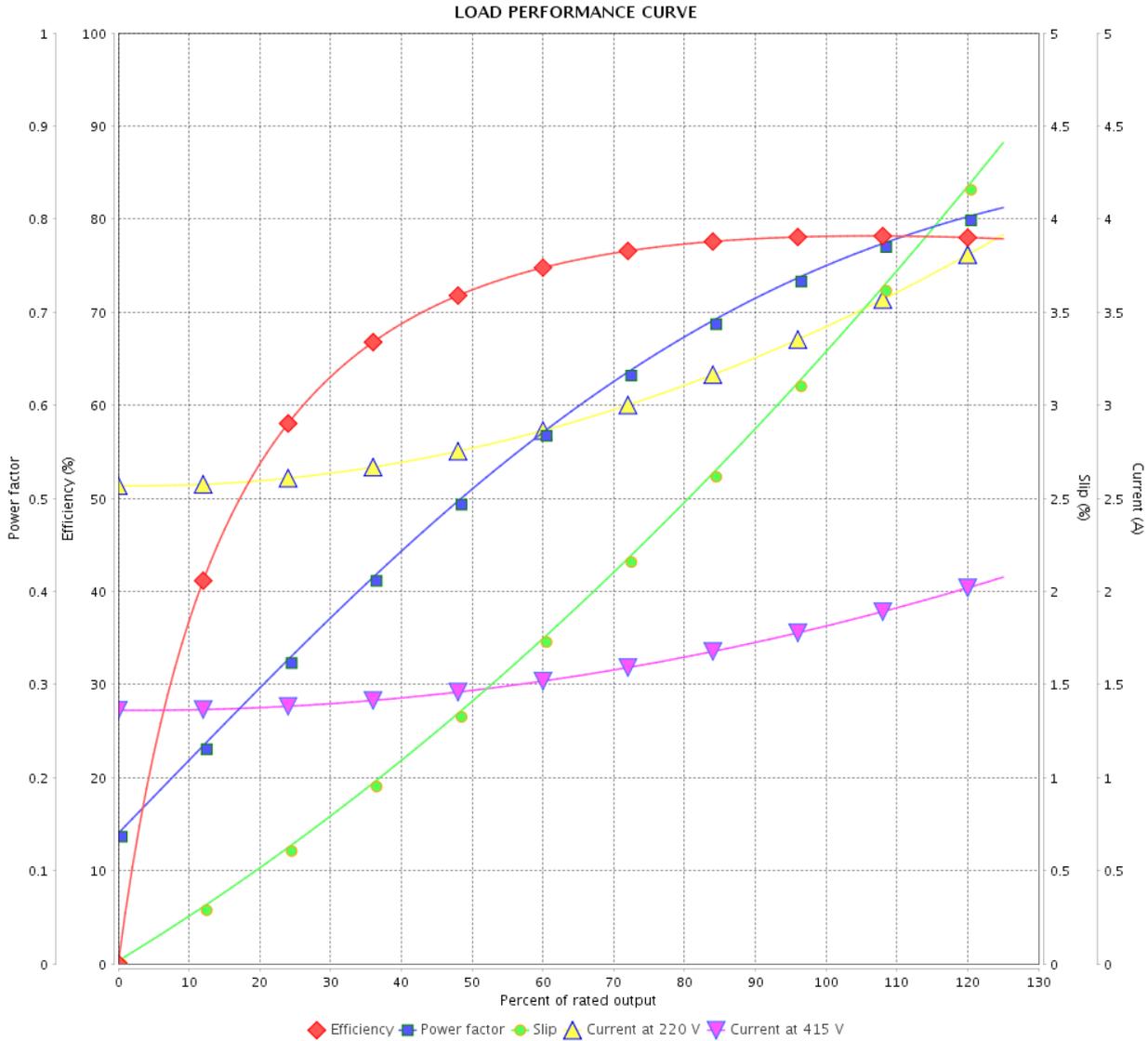
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12894800



Performance : 220/415 V 50 Hz 4P

Rated current : 3.49/1.85 A  
 LRC : 6.6  
 Rated torque : 0.501 kgfm  
 Locked rotor torque : 229 %  
 Breakdown torque : 290 %  
 Rated speed : 1450 rpm

Moment of inertia (J) : 0.0036 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
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Checked by				
Date	13/05/2022			