

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :		
Product line	: Standard Efficiency Three-Phase	
Product code	: 12894789	
Frame	: 56HC	
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>	: 15.1 kg	
Moment of inertia (J)	: 0.0044 kgm <sup>2</sup>	
Output [HP]	1.5	
Poles	4	
Frequency [Hz]	60	
Rated voltage [V]	230/460	
Rated current [A]	4.46/2.23	
L. R. Amperes [A]	33.5/16.7	
LRC [A]	7.5x(Code K)	
No load current [A]	3.00/1.50	
Rated speed [RPM]	1750	
Slip [%]	2.78	
Rated torque [kgfm]	0.622	
Locked rotor torque [%]	250	
Breakdown torque [%]	300	
Service factor	1.00	
Temperature rise	80 K	
Locked rotor time	16s (cold) 9s (hot)	
Noise level <sup>2</sup>	52.0 dB(A)	
Efficiency (%)	25%	75.4
	50%	77.0
	75%	80.0
	100%	81.5
Power Factor	25%	0.30
	50%	0.54
	75%	0.67
	100%	0.76
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 : 53 kgf	
	Max. compression : 68 kgf	
Notes		
USABLE @208V 4.93A SF 1.00 SFA 4.93A		
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	
Date	13/05/2022	
Page	1 / 4	
Revision		

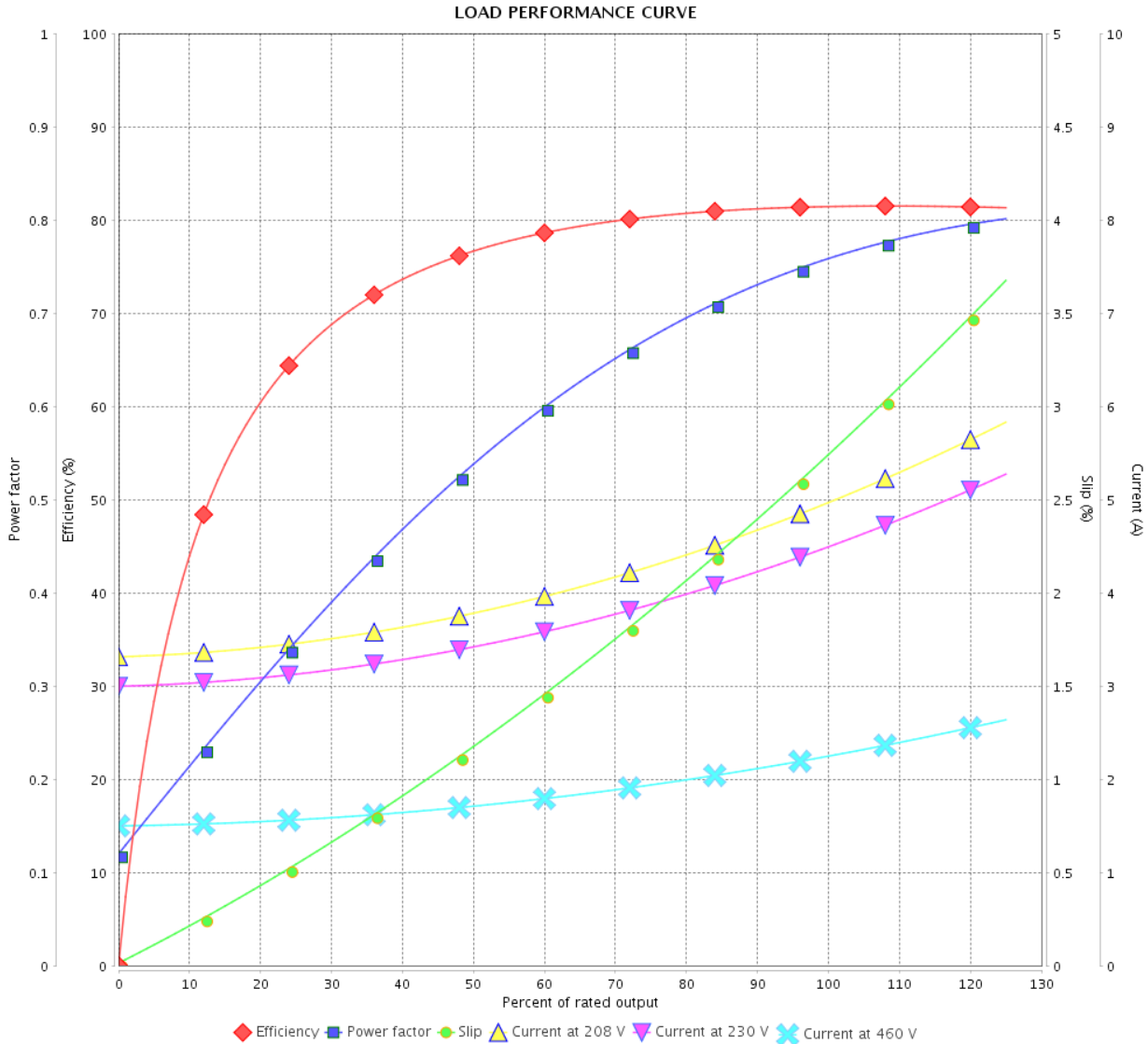
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12894789



Performance : 230/460 V 60 Hz 4P

Rated current : 4.46/2.23 A  
 LRC : 7.5  
 Rated torque : 0.622 kgfm  
 Locked rotor torque : 250 %  
 Breakdown torque : 300 %  
 Rated speed : 1750 rpm

Moment of inertia (J) : 0.0044 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
Performed by			Page	Revision
Checked by				
Date				

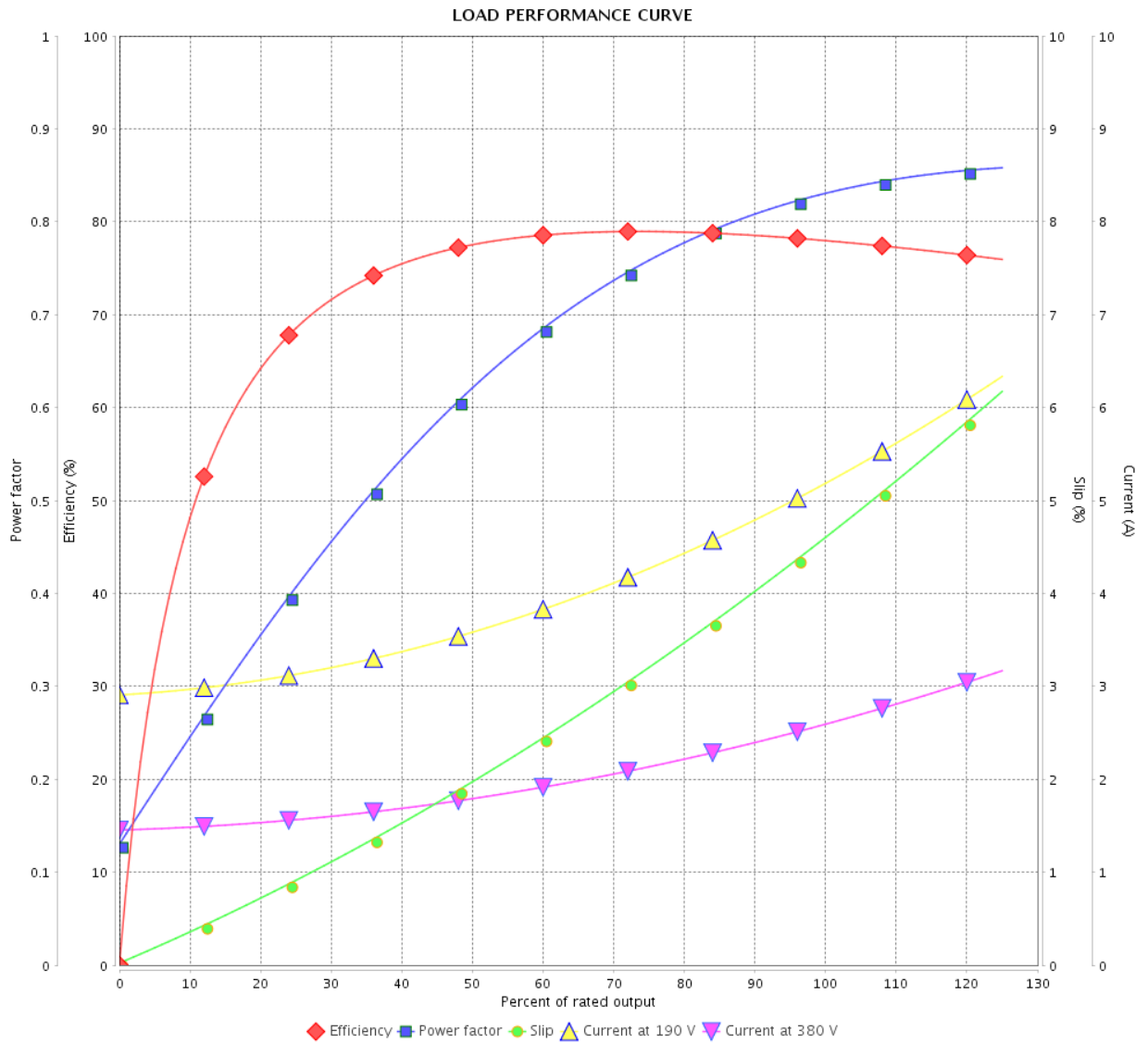
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



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

Product line : Standard Efficiency Three-Phase      Product code : 12894789



Performance : 190/380 V 50 Hz 4P

Rated current : 5.16/2.58 A  
 LRC : 6.0  
 Rated torque : 0.761 kgfm  
 Locked rotor torque : 190 %  
 Breakdown torque : 220 %  
 Rated speed : 1430 rpm

Moment of inertia (J) : 0.0044 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 105 K  
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 3 / 4	Revision
Checked by				
Date	13/05/2022			

# LOAD PERFORMANCE CURVE

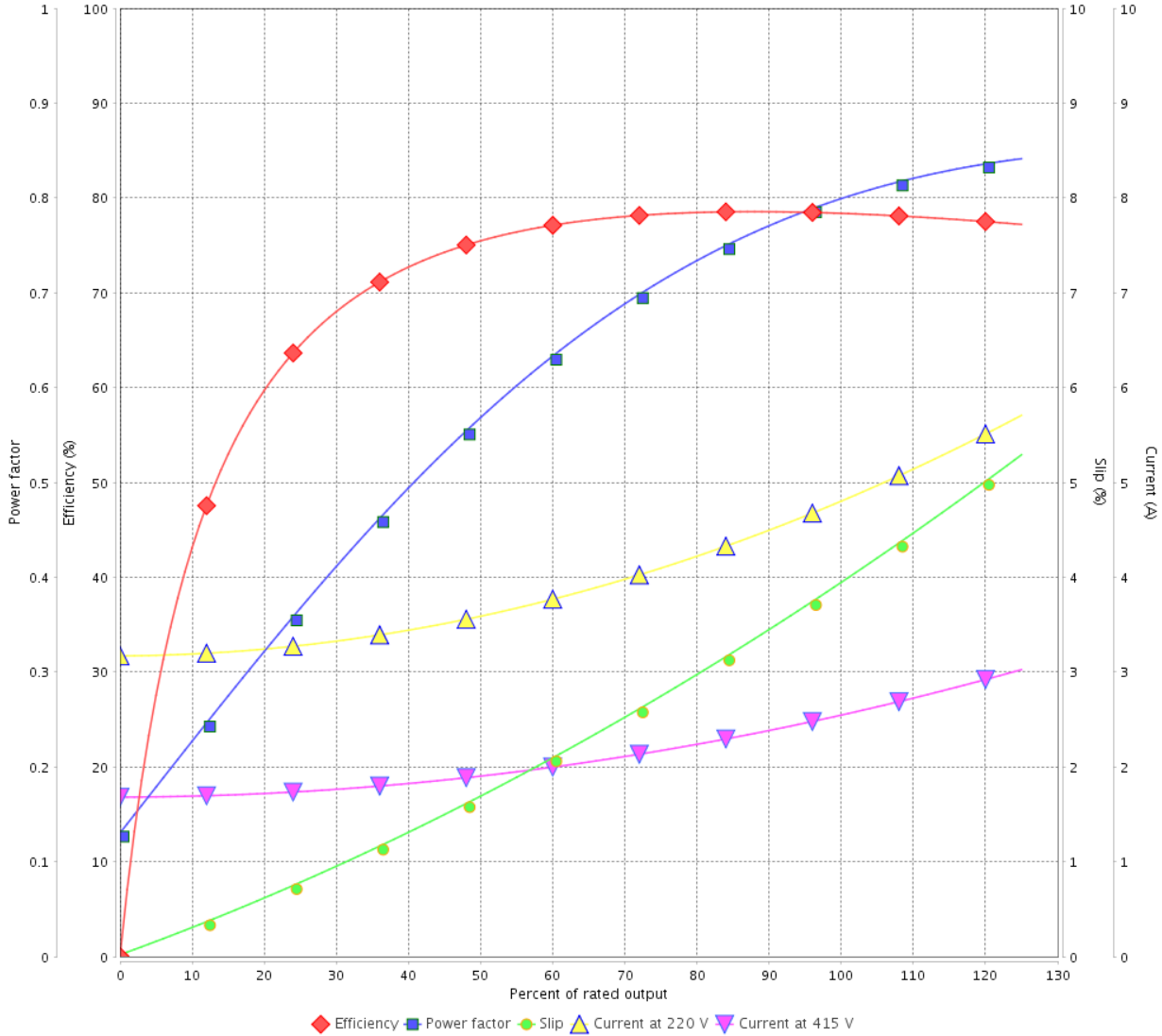
Three Phase Induction Motor - Squirrel Cage



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

Product line : Standard Efficiency Three-Phase      Product code : 12894789

LOAD PERFORMANCE CURVE



Performance : 220/415 V 50 Hz 4P

Rated current : 4.77/2.53 A  
 LRC : 6.4  
 Rated torque : 0.756 kgfm  
 Locked rotor torque : 210 %  
 Breakdown torque : 250 %  
 Rated speed : 1440 rpm

Moment of inertia (J) : 0.0044 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 105 K  
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 4 / 4	Revision
Checked by				
Date	13/05/2022			

