

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12894765

Frame	: 56C	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight ³	: 16.4 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0052 kgm ²
Design	: A		

Output [HP]	2	1.5	1.5
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	5.70/2.85	5.24/2.62	4.96/2.63
L. R. Amperes [A]	41.6/20.8	38.3/19.1	38.2/20.3
LRC [A]	7.3x(Code K)	7.3x(Code K)	7.7x(Code L)
No load current [A]	3.33/1.66	3.23/1.61	3.52/1.87
Rated speed [RPM]	1745	1445	1450
Slip [%]	3.06	3.67	3.33
Rated torque [kgfm]	0.832	0.753	0.751
Locked rotor torque [%]	240	250	280
Breakdown torque [%]	270	290	320
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	14s (cold) 8s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%	78.9	77.4
	50%	80.0	77.8
	75%	81.5	80.6
	100%	82.5	80.6
Power Factor	25%	0.33	0.32
	50%	0.58	0.57
	75%	0.72	0.71
	100%	0.80	0.79

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	: 6204 ZZ	6202 ZZ	Max. traction	: 69 kgf
Sealing	: V'Ring	Without	Max. compression	: 85 kgf
		Bearing Seal		
Lubrication interval	: -	-		
Lubricant amount	: -	-		
Lubricant type	: Mobil Polyrex EM			

Notes

USABLE @208V 6.30A SF 1.00 SFA 6.30A

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
Performed by				
Checked by				
Date	13/05/2022			

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Revision

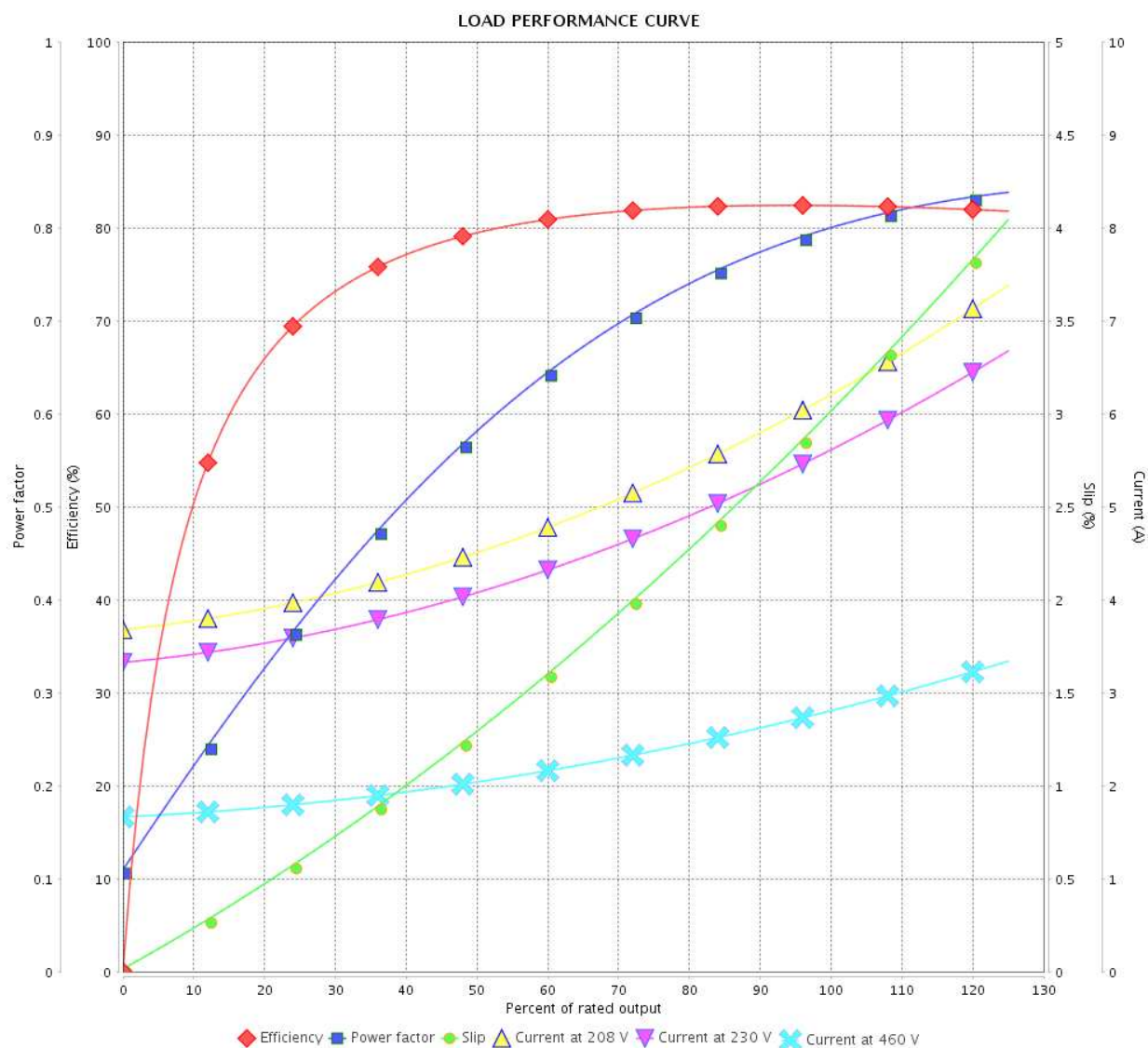
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12894765



Performance : 230/460 V 60 Hz 4P

Rated current : 5.70/2.85 A
 LRC : 7.3
 Rated torque : 0.832 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 270 %
 Rated speed : 1745 rpm

Moment of inertia (J) : 0.0052 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : A

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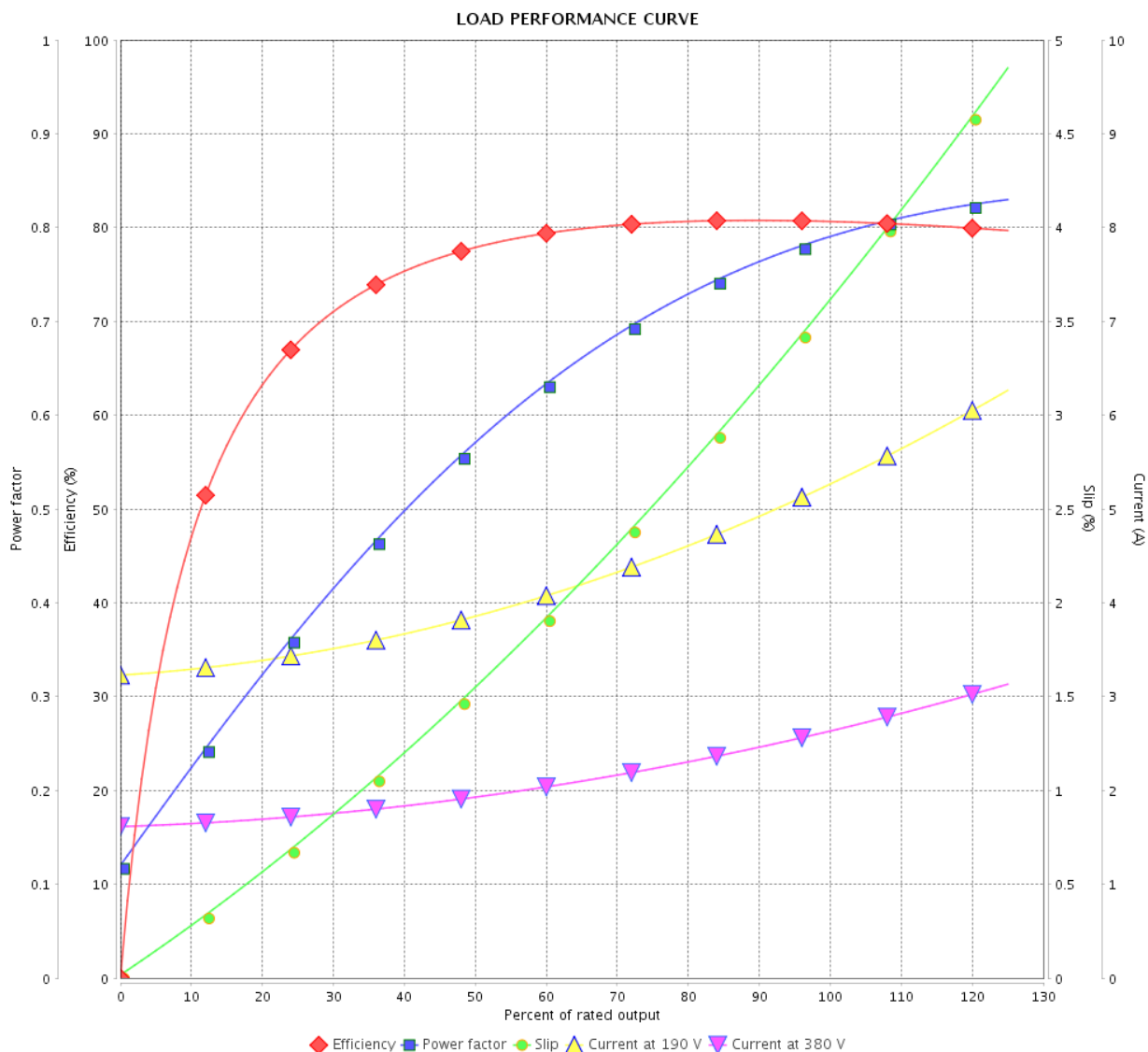
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12894765



Performance : 190/380 V 50 Hz 4P

Rated current : 5.24/2.62 A
 LRC : 7.3
 Rated torque : 0.753 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 290 %
 Rated speed : 1445 rpm

Moment of inertia (J) : 0.0052 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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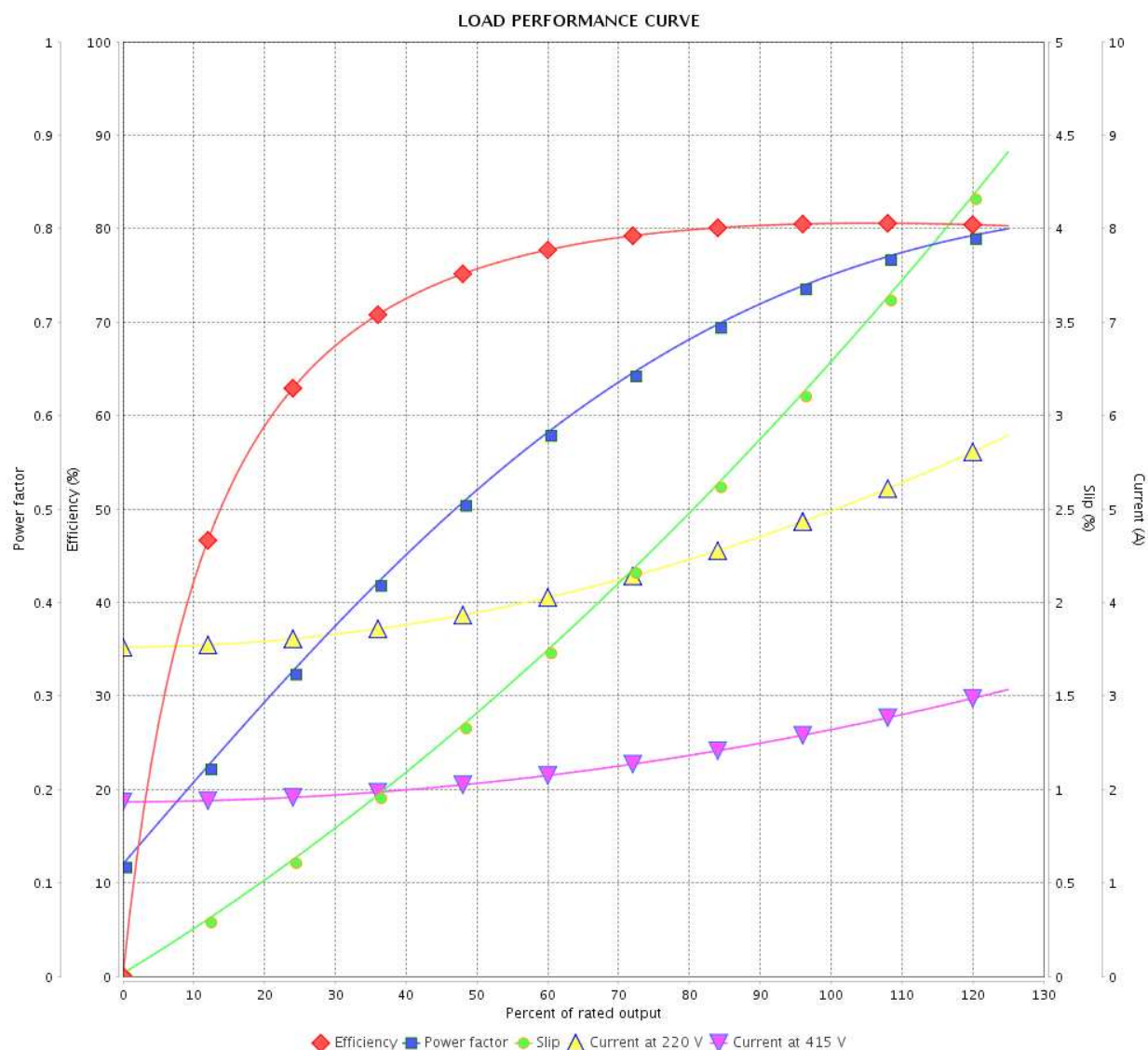
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12894765



Performance : 220/415 V 50 Hz 4P

Rated current : 4.96/2.63 A
 LRC : 7.7
 Rated torque : 0.751 kgfm
 Locked rotor torque : 280 %
 Breakdown torque : 320 %
 Rated speed : 1450 rpm

Moment of inertia (J) : 0.0052 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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