

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12805245

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	: 12.4 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0033 kgm ²
Design	: A		

Output [HP]	1.5	1	1
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	3.98/1.99	3.28/1.64	3.04/1.61
L. R. Amperes [A]	28.7/14.3	26.2/13.1	26.1/13.8
LRC [A]	7.2x(Code J)	8.0x(Code K)	8.6x(Code L)
No load current [A]	1.63/0.815	1.57/0.786	1.67/0.884
Rated speed [RPM]	3460	2885	2900
Slip [%]	3.89	3.83	3.33
Rated torque [kgfm]	0.315	0.252	0.250
Locked rotor torque [%]	240	270	300
Breakdown torque [%]	270	320	350
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	21s (cold) 12s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%	70.4	73.1
	50%	72.0	74.2
	75%	75.5	78.0
	100%	77.0	78.8
Power Factor	25%	0.49	0.43
	50%	0.76	0.71
	75%	0.85	0.82
	100%	0.90	0.88

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	: 6204 ZZ	6202 ZZ	Max. traction	: 22 kgf
Sealing	: V'Ring	Without	Max. compression	: 34 kgf
		Bearing Seal		
Lubrication interval	: -	-		
Lubricant amount	: -	-		
Lubricant type	: Mobil Polyrex EM			

Notes

USABLE @208V 4.40A SF 1.00 SFA 4.40A

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				
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Date	13/05/2022			

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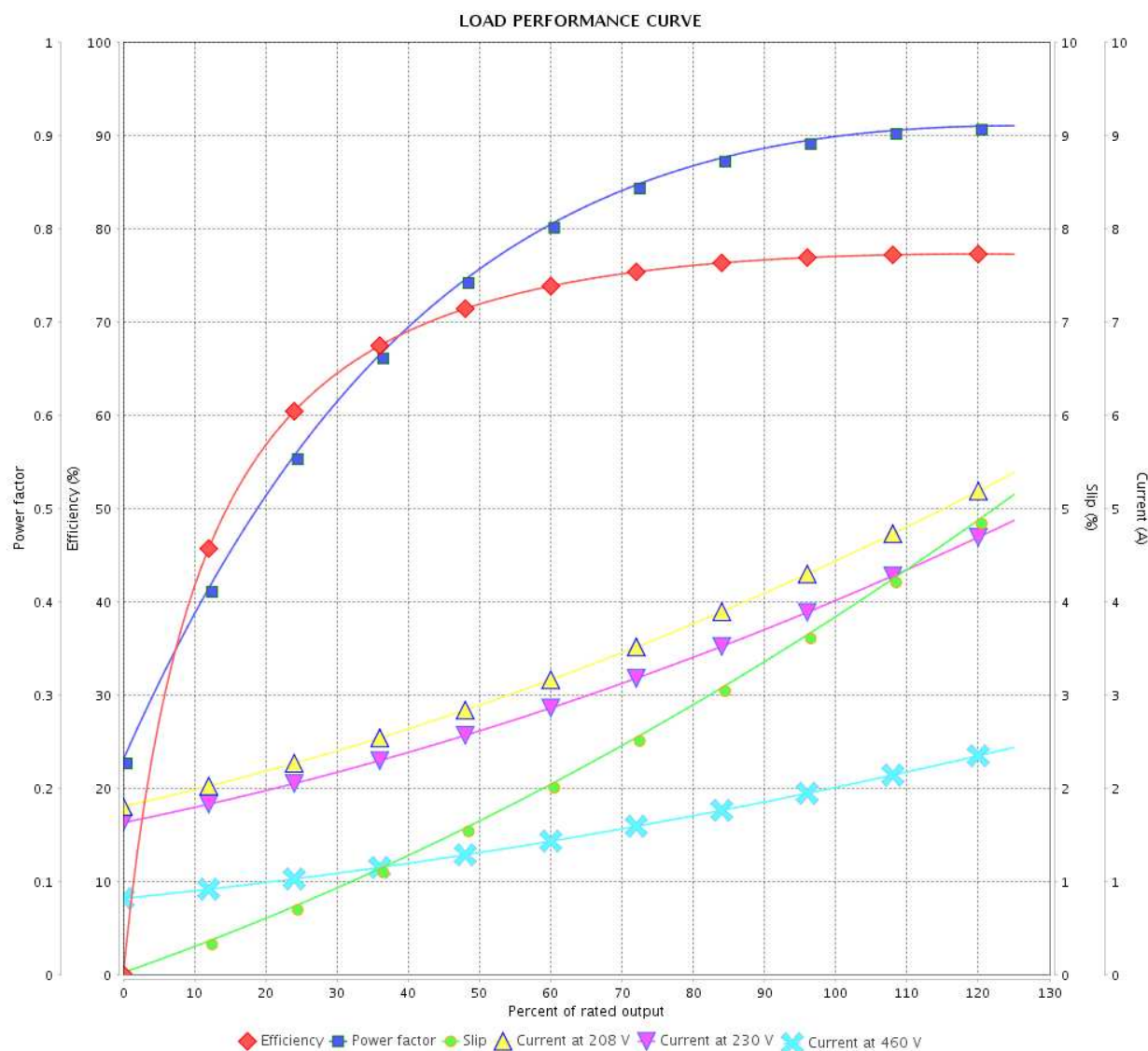
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12805245



Performance : 230/460 V 60 Hz 2P

Rated current : 3.98/1.99 A
 LRC : 7.2
 Rated torque : 0.315 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 270 %
 Rated speed : 3460 rpm

Moment of inertia (J) : 0.0033 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : A

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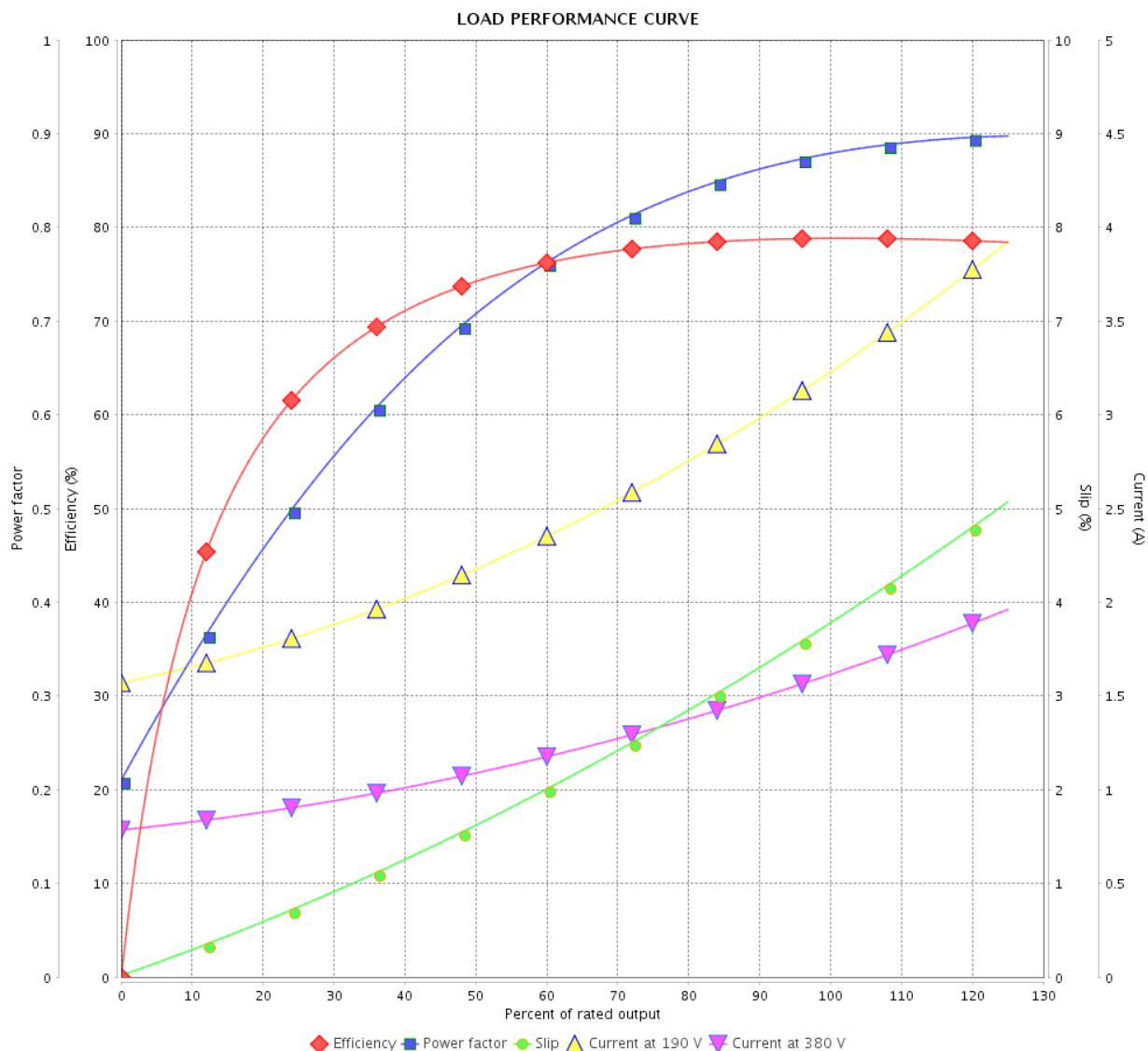
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12805245



Performance : 190/380 V 50 Hz 2P

Rated current : 3.28/1.64 A
 LRC : 8.0
 Rated torque : 0.252 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 320 %
 Rated speed : 2885 rpm

Moment of inertia (J) : 0.0033 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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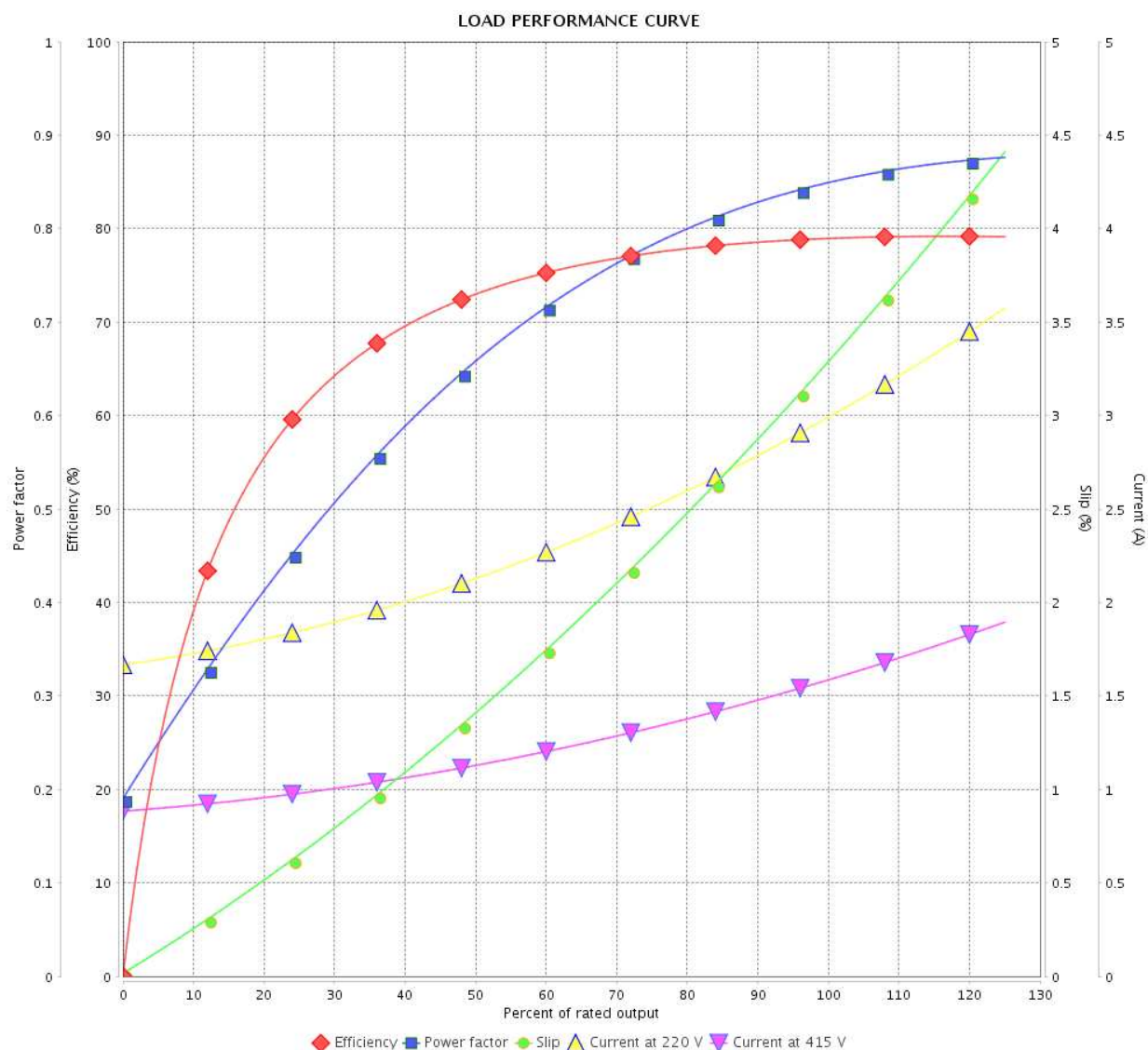
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12805245



Performance : 220/415 V 50 Hz 2P

Rated current : 3.04/1.61 A
 LRC : 8.6
 Rated torque : 0.250 kgfm
 Locked rotor torque : 300 %
 Breakdown torque : 350 %
 Rated speed : 2900 rpm

Moment of inertia (J) : 0.0033 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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