

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12674796

Frame	: 182/4T	Cooling method	: IC01 - ODP
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 ²	: 31.3 kg
Design	: B	Moment of inertia (J)	: 0.0130 kgm ²

Output [HP]	3	3	3
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	7.72/3.86	9.08/4.54	8.41/4.46
L. R. Amperes [A]	64.8/32.4	58.1/29.1	59.7/31.7
LRC [A]	8.4x(Code K)	6.4x(Code H)	7.1x(Code J)
No load current [A]	4.14/2.07	4.08/2.04	4.20/2.22
Rated speed [RPM]	1765	1460	1465
Slip [%]	1.94	2.67	2.33
Rated torque [kgfm]	1.23	1.49	1.49
Locked rotor torque [%]	220	150	170
Breakdown torque [%]	330	240	280
Service factor	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	27s (cold) 15s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	55.0 dB(A)	53.0 dB(A)	53.0 dB(A)
Efficiency (%)	25%	86.4	85.6
	50%	87.5	86.0
	75%	88.5	86.5
	100%	89.5	86.7
Power Factor	25%	0.35	0.42
	50%	0.60	0.68
	75%	0.73	0.79
	100%	0.80	0.85

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6206 ZZ	6205 ZZ	Max. traction : 71 kgf
Sealing	: Without	Without	Max. compression : 103 kgf
	Bearing Seal	Bearing Seal	
Lubrication interval	: -	-	
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

Notes
USABLE @208V 8.54A SF 1.00 SFA 8.54A

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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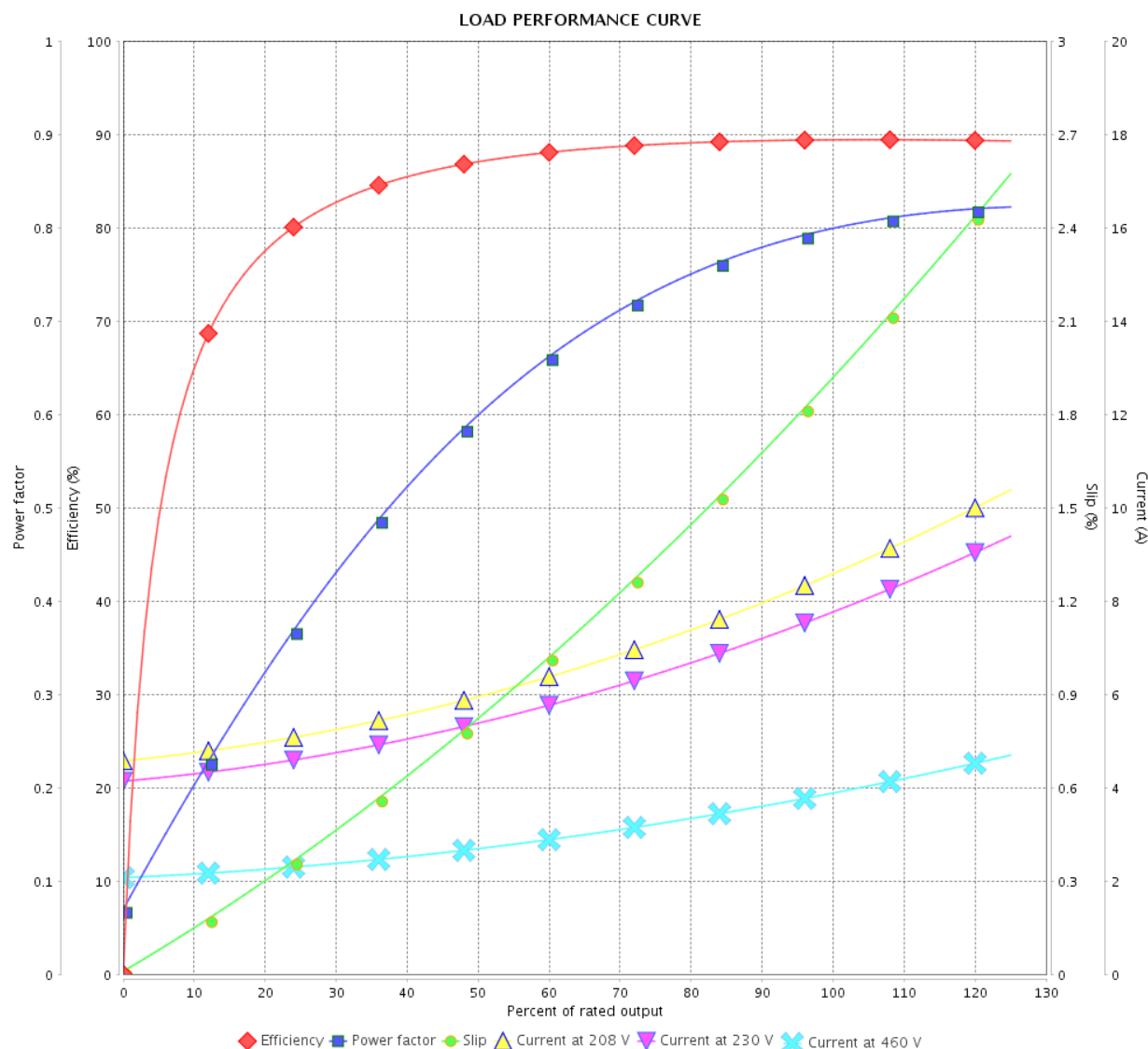
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12674796



Performance : 230/460 V 60 Hz 4P

Rated current : 7.72/3.86 A
 LRC : 8.4
 Rated torque : 1.23 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 330 %
 Rated speed : 1765 rpm

Moment of inertia (J) : 0.0130 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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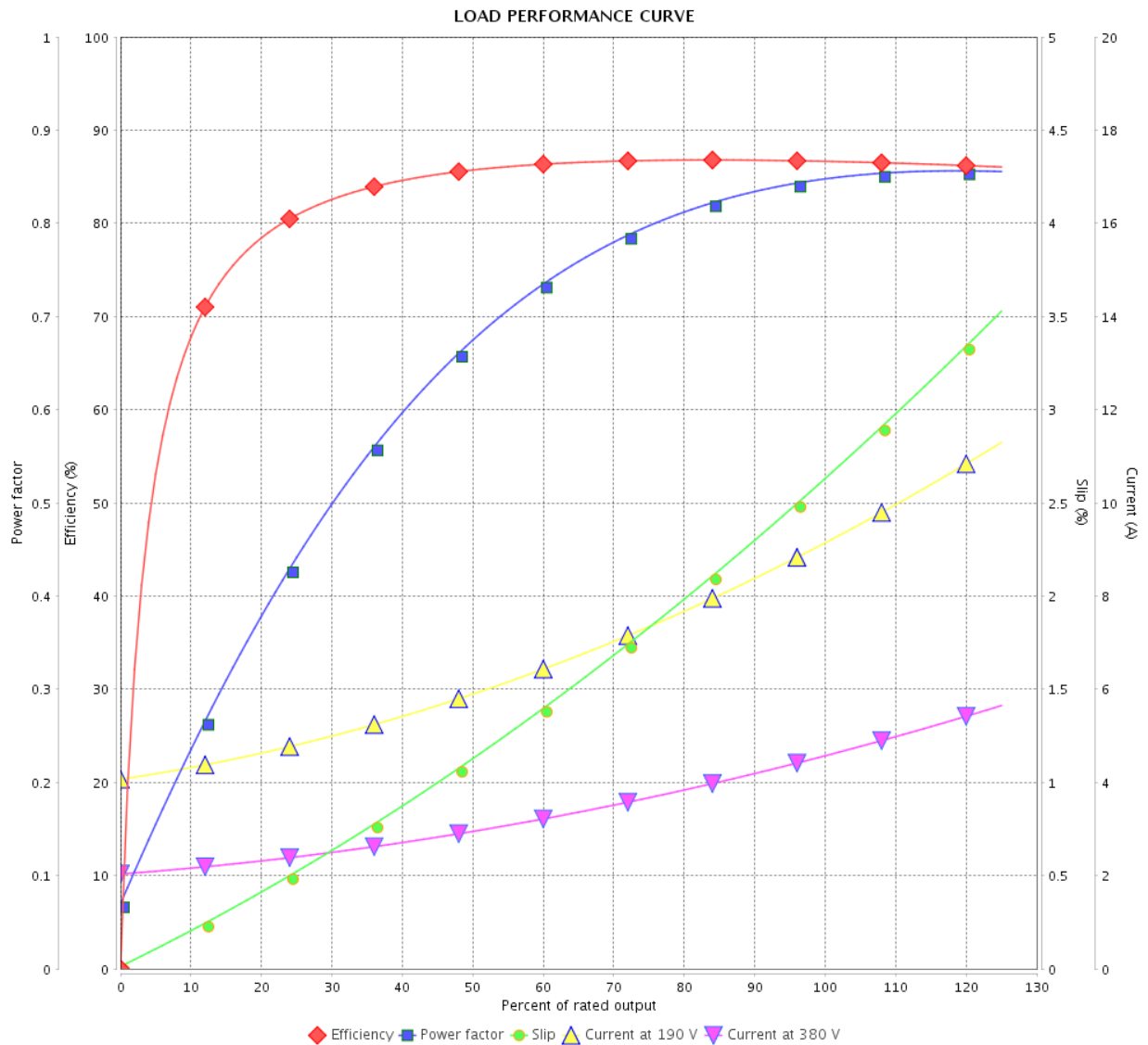
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12674796



Performance : 190/380 V 50 Hz 4P

Rated current : 9.08/4.54 A
 LRC : 6.4
 Rated torque : 1.49 kgfm
 Locked rotor torque : 150 %
 Breakdown torque : 240 %
 Rated speed : 1460 rpm

Moment of inertia (J) : 0.0130 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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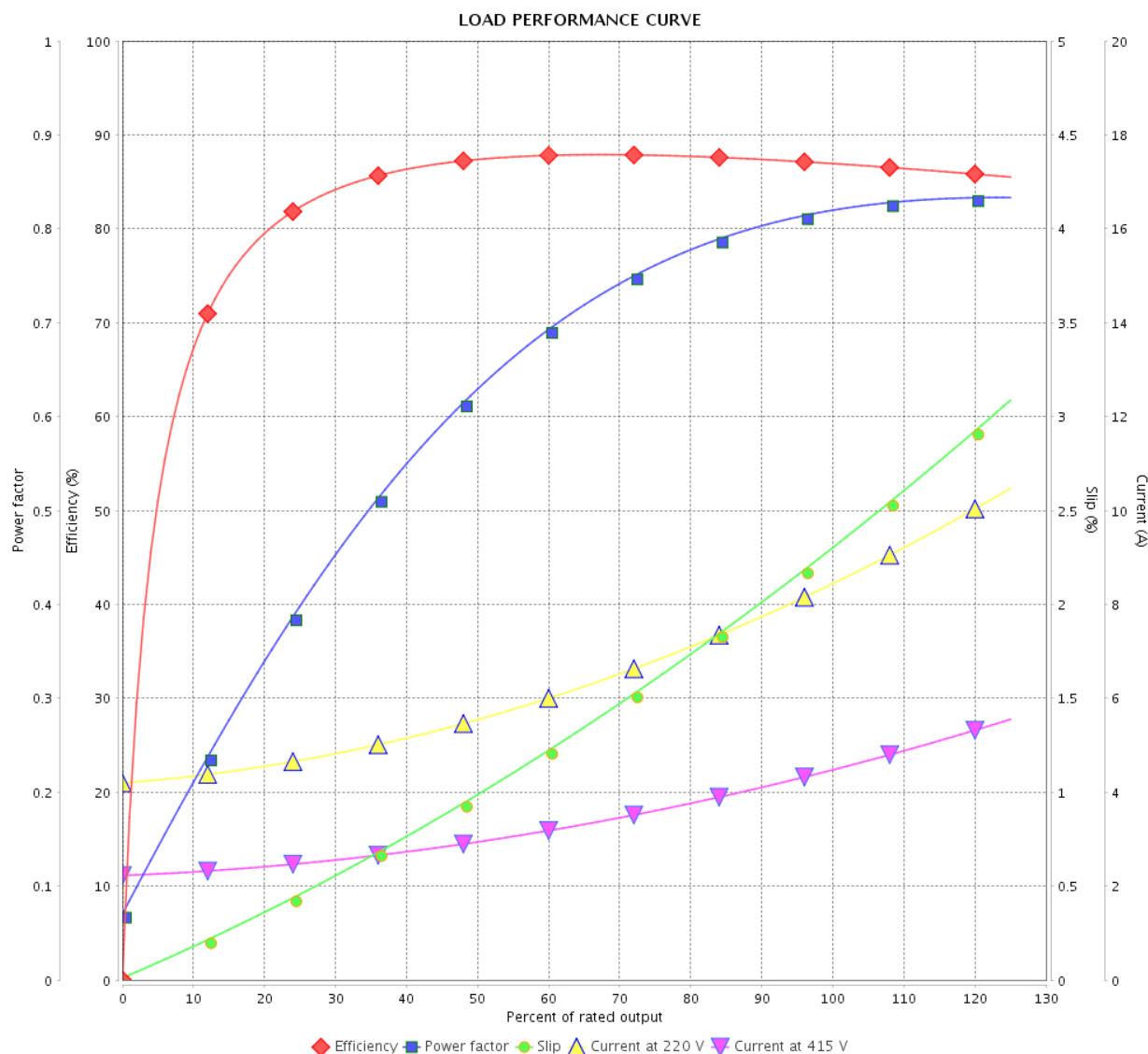
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12674796



Performance : 220/415 V 50 Hz 4P

Rated current : 8.41/4.46 A
LRC : 7.1
Rated torque : 1.49 kgfm
Locked rotor torque : 170 %
Breakdown torque : 280 %
Rated speed : 1465 rpm

Moment of inertia (J) : 0.0130 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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