

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : NEMA Premium Efficiency Three-Phase Product code : 12630271

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	: 36.8 kg
Design	: B	Moment of inertia (J)	: 0.0169 kgm ²

Output [HP]	5	5	5
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	12.7/6.33	15.4/7.71	13.8/7.32
L. R. Amperes [A]	91.2/45.6	89.4/44.7	89.8/47.6
LRC [A]	7.2x(Code J)	5.8x(Code G)	6.5x(Code H)
No load current [A]	6.29/3.15	6.19/3.10	6.38/3.38
Rated speed [RPM]	1760	1445	1450
Slip [%]	2.22	3.67	3.33
Rated torque [kgfm]	2.06	2.51	2.50
Locked rotor torque [%]	200	140	160
Breakdown torque [%]	310	220	250
Service factor	1.15	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	55.0 dB(A)	53.0 dB(A)	53.0 dB(A)
Efficiency (%)	25%	87.5	90.4
	50%	88.5	88.2
	75%	88.5	87.3
	100%	89.5	84.8
Power Factor	25%	0.38	0.44
	50%	0.63	0.71
	75%	0.76	0.82
	100%	0.82	0.86

	<u>Drive end</u>	<u>Non drive end</u>	
Bearing type	: 6206 ZZ	6205 ZZ	Foundation loads
Sealing	: Without	Without	Max. traction : 112 kgf
	Bearing Seal	Bearing Seal	Max. compression : 149 kgf
Lubrication interval	: -	-	
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

Notes
USABLE @208V 14.0A SF 1.00 SFA 14.0A

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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Three Phase Induction Motor - Squirrel Cage



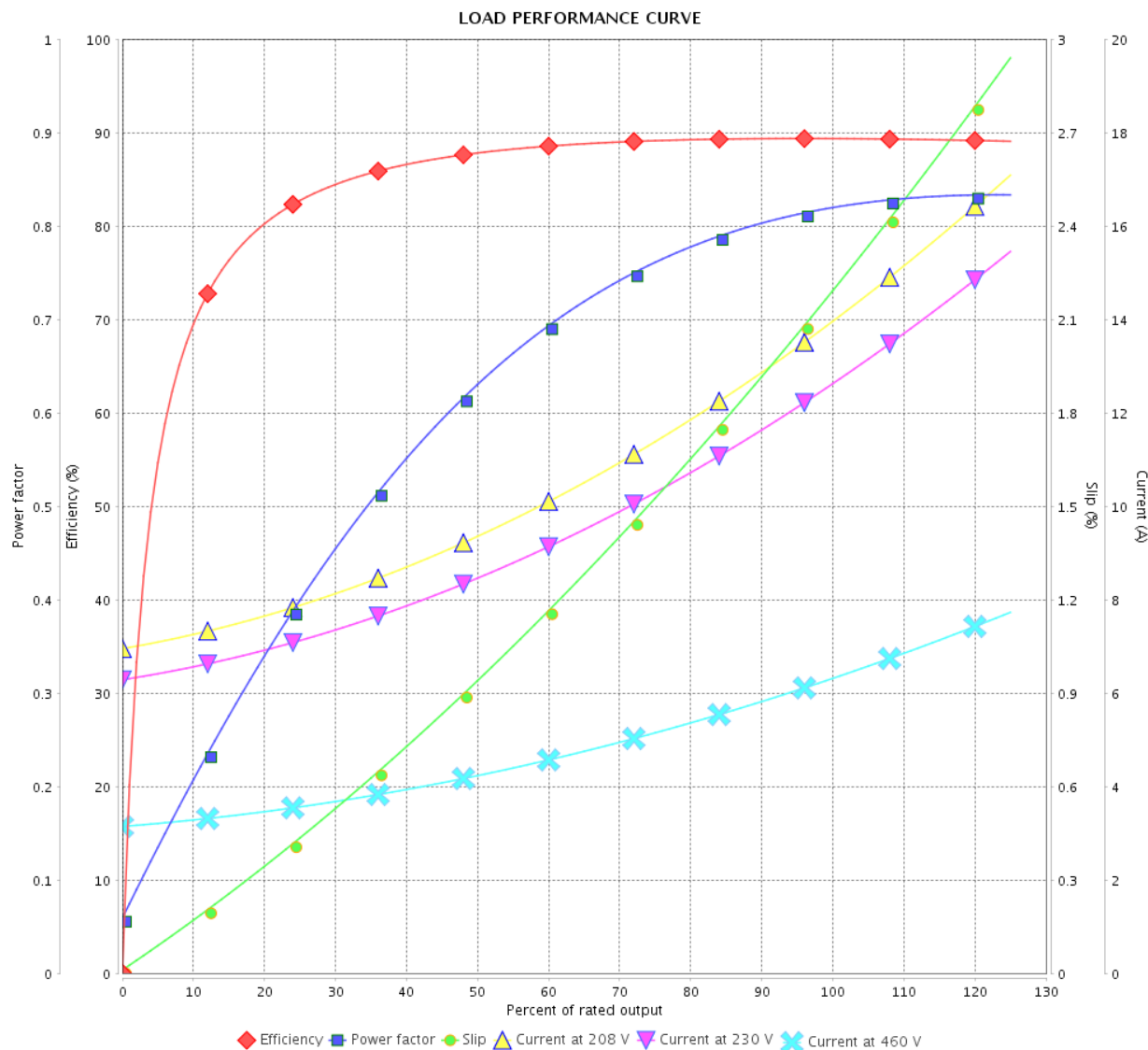
Customer :

Product line

: NEMA Premium Efficiency Three-Phase

Product code :

12630271



Performance : 230/460 V 60 Hz 4P

Rated current : 12.7/6.33 A
 LRC : 7.2
 Rated torque : 2.06 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 310 %
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.0169 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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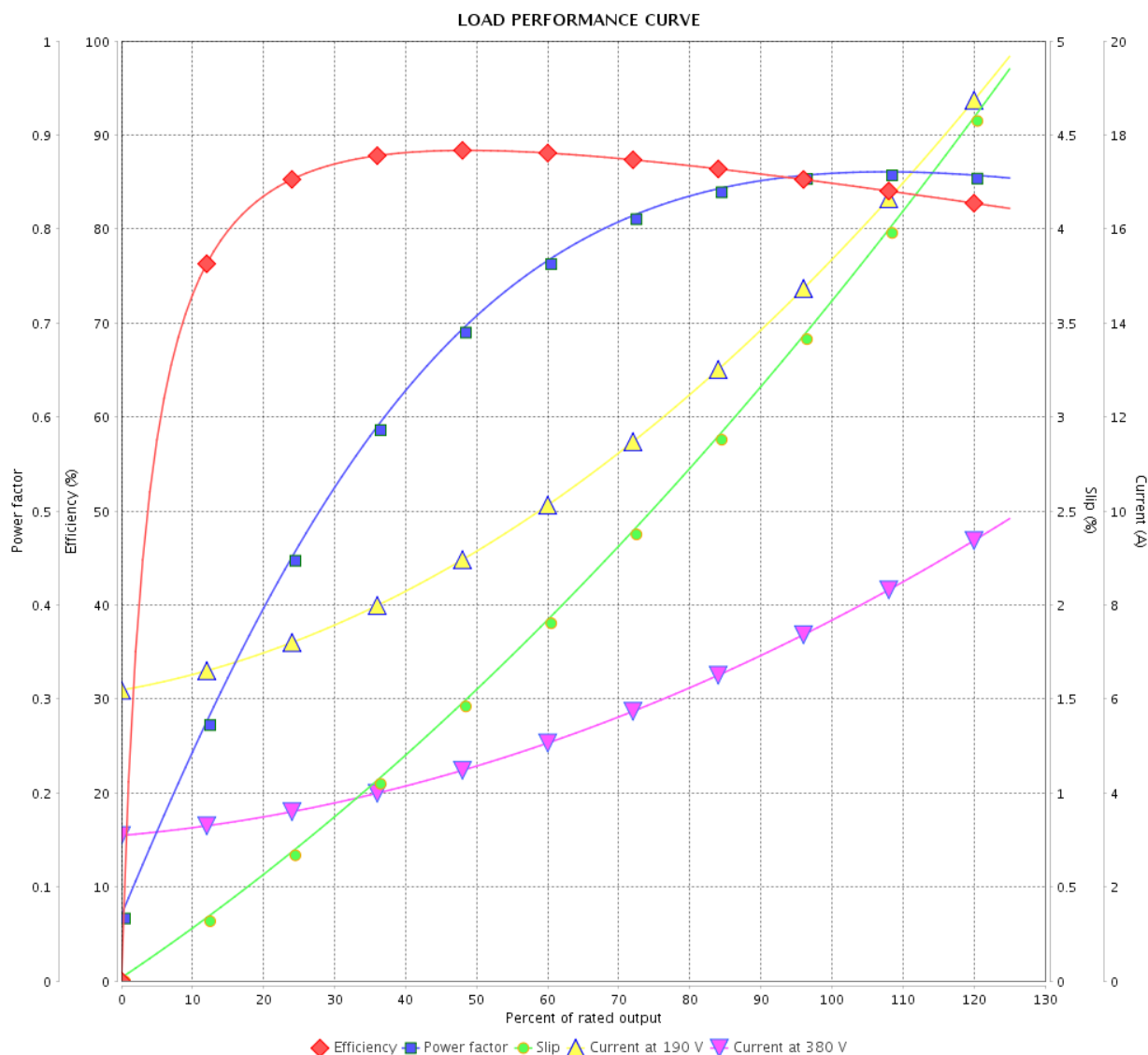
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase

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Performance : 190/380 V 50 Hz 4P

Rated current : 15.4/7.71 A
 LRC : 5.8
 Rated torque : 2.51 kgfm
 Locked rotor torque : 140 %
 Breakdown torque : 220 %
 Rated speed : 1445 rpm

Moment of inertia (J) : 0.0169 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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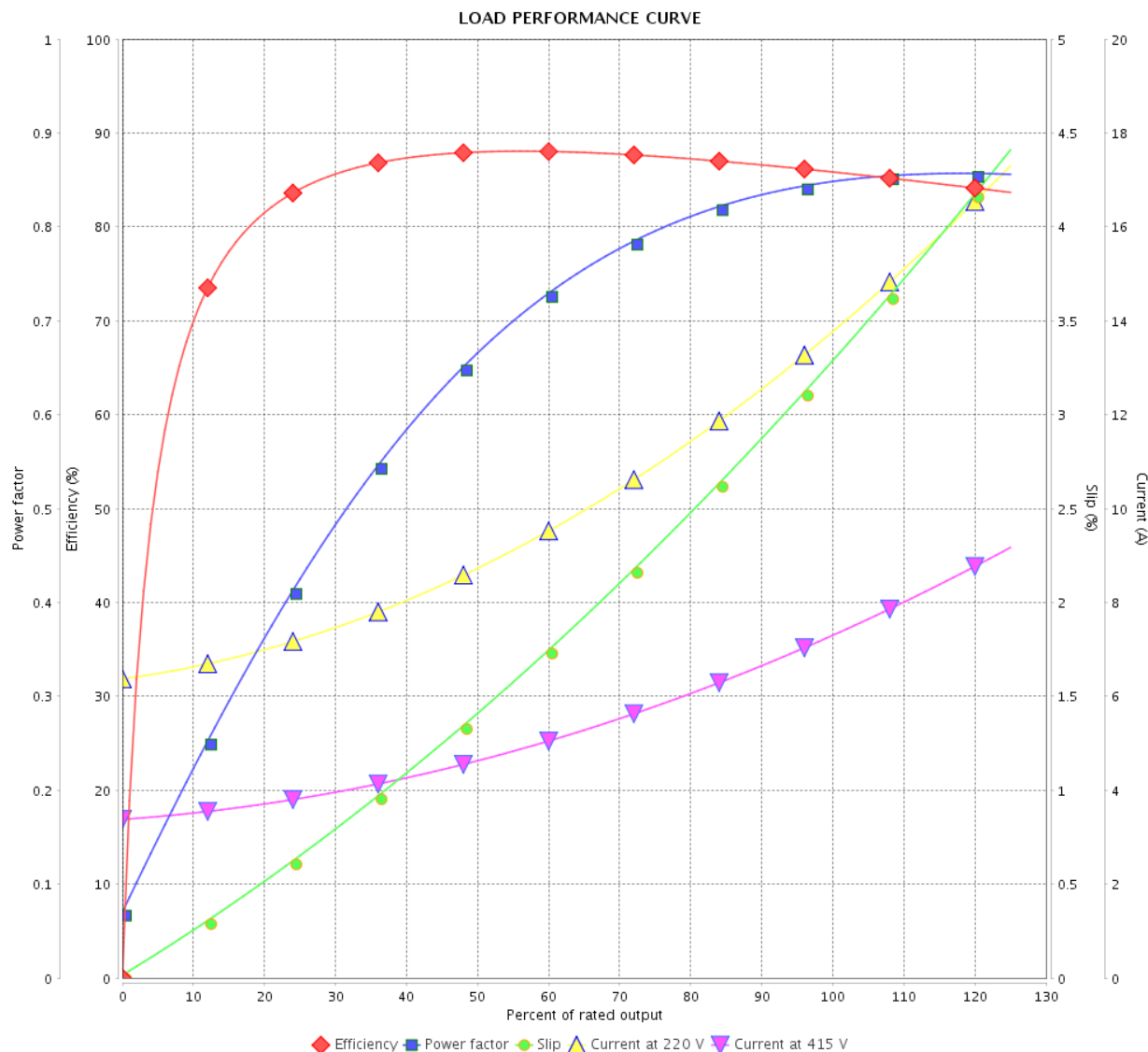
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12630271



Performance : 220/415 V 50 Hz 4P

Rated current : 13.8/7.32 A
 LRC : 6.5
 Rated torque : 2.50 kgfm
 Locked rotor torque : 160 %
 Breakdown torque : 250 %
 Rated speed : 1450 rpm

Moment of inertia (J) : 0.0169 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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