

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :		
Product line	: NEMA Premium Efficiency Three-Phase	
Product code :	12751146	
Frame	: 182/4TC	
Insulation class	: F	
Duty cycle	: Cont.(S1)	
Ambient temperature	: -20°C to +40°C	
Altitude	: 1000 m.a.s.l.	
Design	: B	
Cooling method	: IC01 - ODP	
Mounting	: F-1	
Rotation ¹	: Both (CW and CCW)	
Starting method	: Direct On Line	
Approx. weight ³	: 30.1 kg	
Moment of inertia (J)	: 0.0058 kgm ²	
Output [HP]	5	
Poles	2	
Frequency [Hz]	60	
Rated voltage [V]	230/460	
Rated current [A]	12.2/6.10	
L. R. Amperes [A]	92.7/46.4	
LRC [A]	7.6x(Code J)	
No load current [A]	5.15/2.58	
Rated speed [RPM]	3510	
Slip [%]	2.50	
Rated torque [kgfm]	1.03	
Locked rotor torque [%]	190	
Breakdown torque [%]	300	
Service factor	1.15	
Temperature rise	80 K	
Locked rotor time	21s (cold) 12s (hot)	
Noise level ²	65.0 dB(A)	
Efficiency (%)	25%	85.2
	50%	85.5
	75%	86.5
	100%	86.5
Power Factor	25%	0.45
	50%	0.73
	75%	0.83
	100%	0.88
Bearing type	: Drive end 6206 ZZ Non drive end 6205 ZZ	
Sealing	: Without Without Bearing Seal Bearing Seal	
Lubrication interval	: - -	
Lubricant amount	: - -	
Lubricant type	: Mobil Polyrex EM	
Foundation loads	Max. traction : 50 kgf Max. compression : 80 kgf	
Notes USABLE @208V 13.5A SF 1.00 SFA 13.5A		
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	
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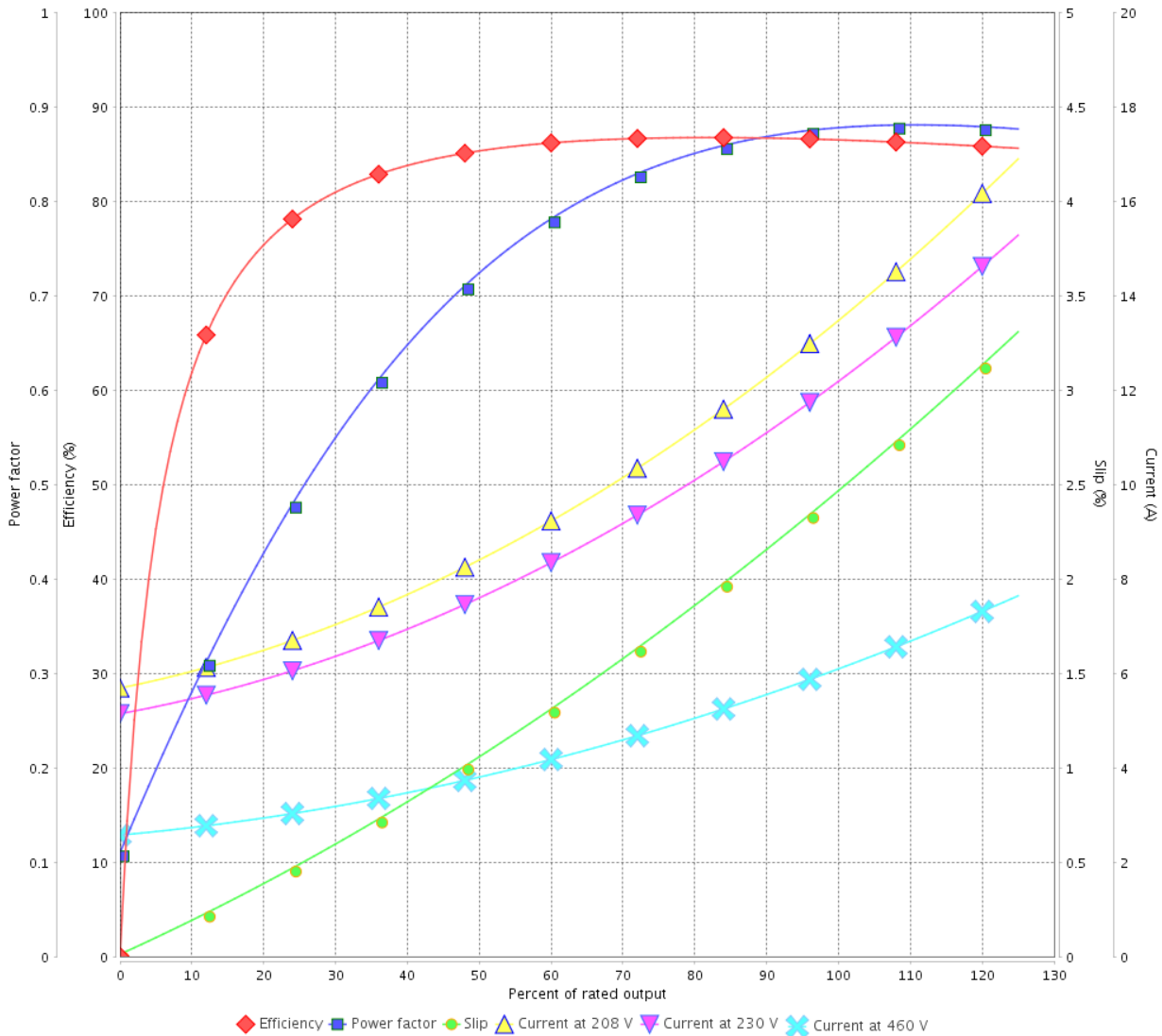
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12751146

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Performance : 230/460 V 60 Hz 2P

Rated current : 12.2/6.10 A
 LRC : 7.6
 Rated torque : 1.03 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 300 %
 Rated speed : 3510 rpm

Moment of inertia (J) : 0.0058 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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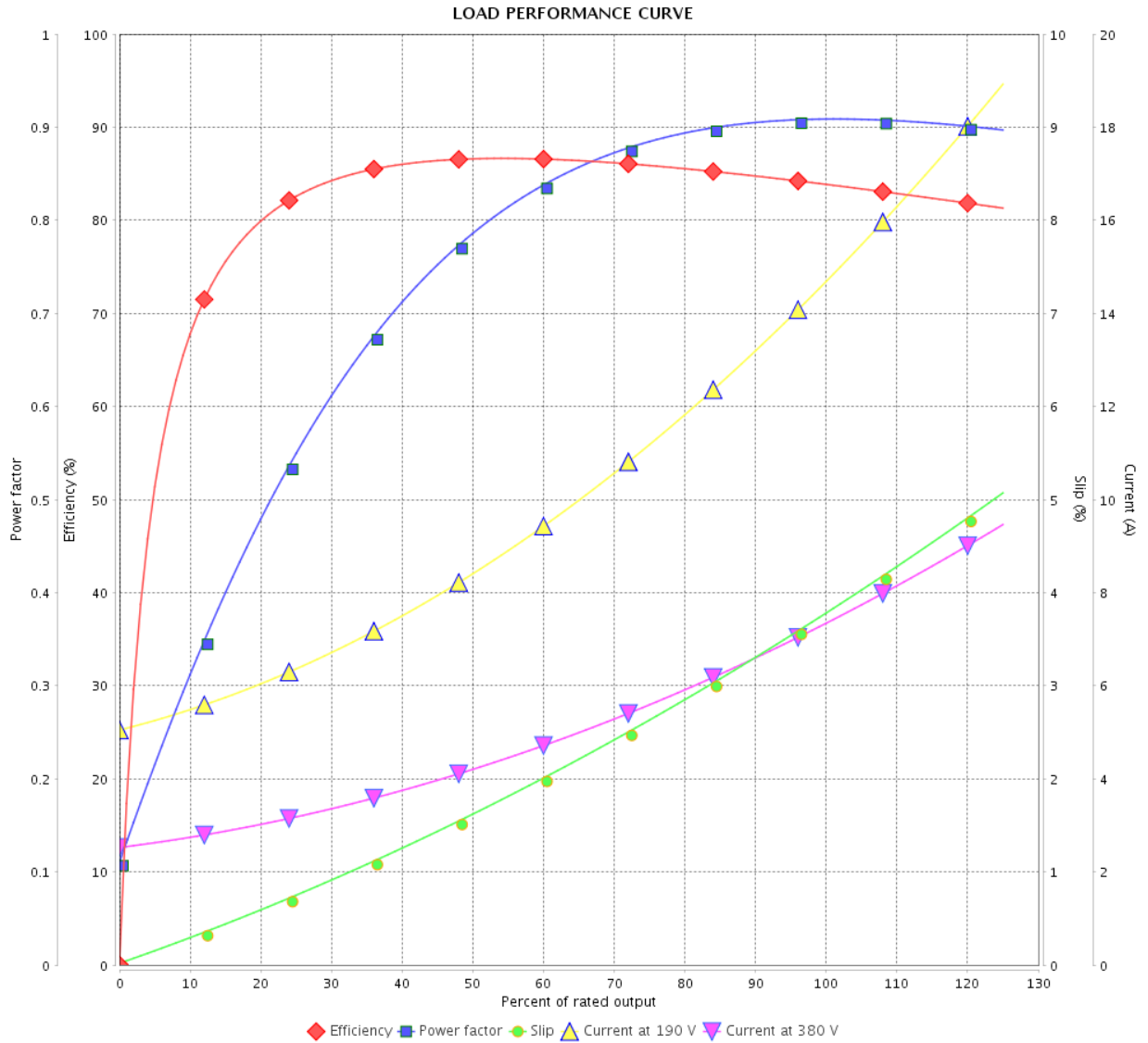
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : NEMA Premium Efficiency Three-Phase Product code : 12751146



Performance : 190/380 V 50 Hz 2P

Rated current : 14.7/7.37 A
 LRC : 5.8
 Rated torque : 1.26 kgfm
 Locked rotor torque : 150 %
 Breakdown torque : 220 %
 Rated speed : 2885 rpm

Moment of inertia (J) : 0.0058 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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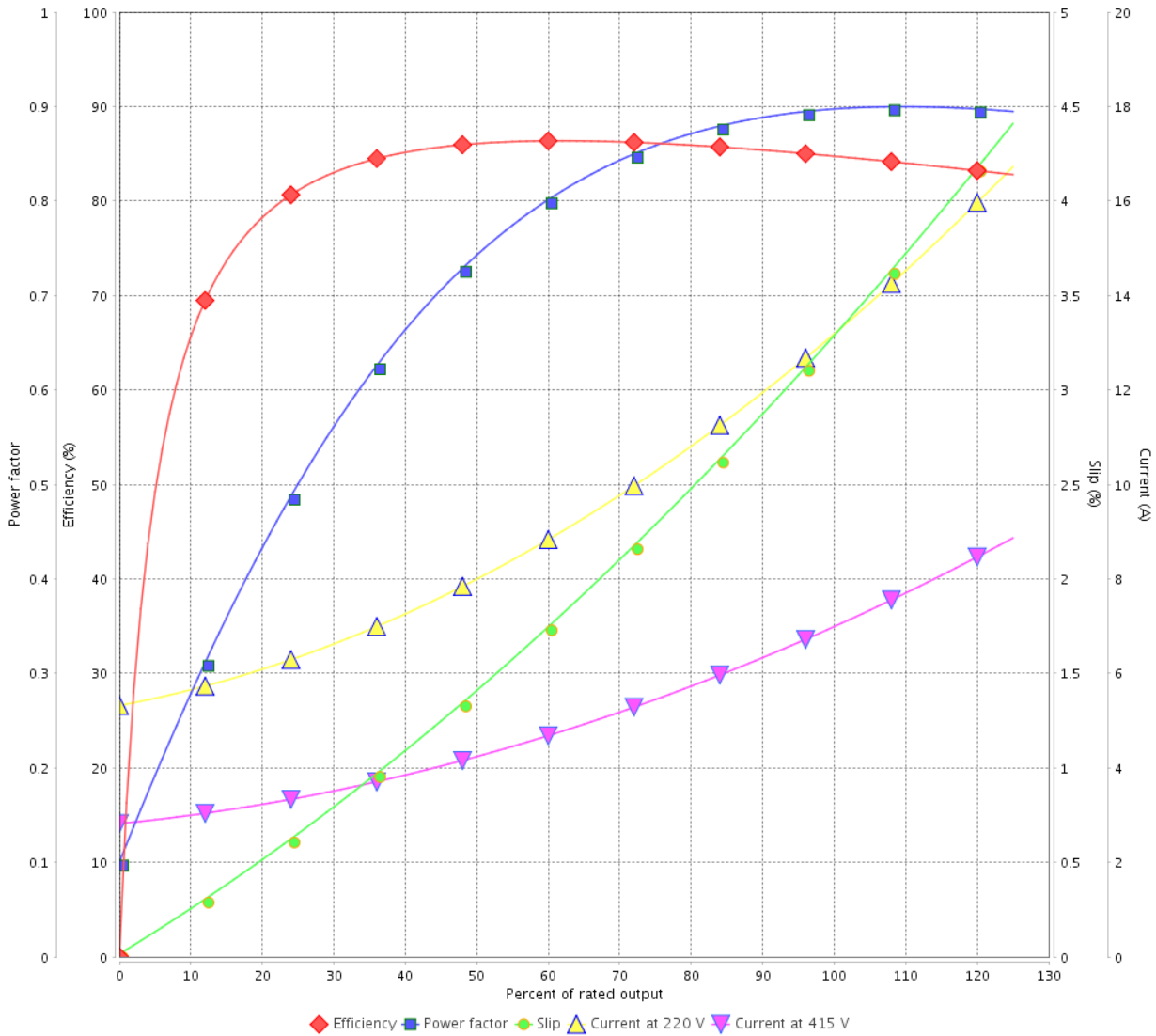
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12751146

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Performance : 220/415 V 50 Hz 2P

Rated current : 13.2/7.01 A
 LRC : 6.5
 Rated torque : 1.25 kgfm
 Locked rotor torque : 170 %
 Breakdown torque : 250 %
 Rated speed : 2900 rpm

Moment of inertia (J) : 0.0058 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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