

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line		: NEMA Premium Efficiency Three-Phase	Product code :	13528749	
Frame	: 182/4TC	Cooling method	: IC01 - ODP		
Insulation class	: F	Mounting	: W-6		
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	: 40.4 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	190-220/380	415		
Rated current [A]	12.7/6.33	15.4-13.3/7.71	7.18		
L. R. Amperes [A]	91.2/45.6	89.4-77.2/44.7	50.3		
LRC [A]	7.2x(Code J)	5.8x(Code G)	7.0x(Code J)		
No load current [A]	6.29/3.15	6.19-5.35/3.10	3.61		
Rated speed [RPM]	1760	1445	1455		
Slip [%]	2.22	3.67	3.00		
Rated torque [kgfm]	2.06	2.51	2.49		
Locked rotor torque [%]	200	140	180		
Breakdown torque [%]	310	220	270		
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%				
	50%	88.5	88.2	87.5	
	75%	88.5	87.3	87.7	
	100%	89.5	84.8	86.4	
Power Factor	25%				
	50%	0.63	0.71	0.64	
	75%	0.76	0.82	0.76	
	100%	0.82	0.86	0.83	
Bearing type	: Drive end 6206 ZZ Non drive end 6205 ZZ	Foundation loads			
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction	: 121 kgf		
		Max. compression	: 161 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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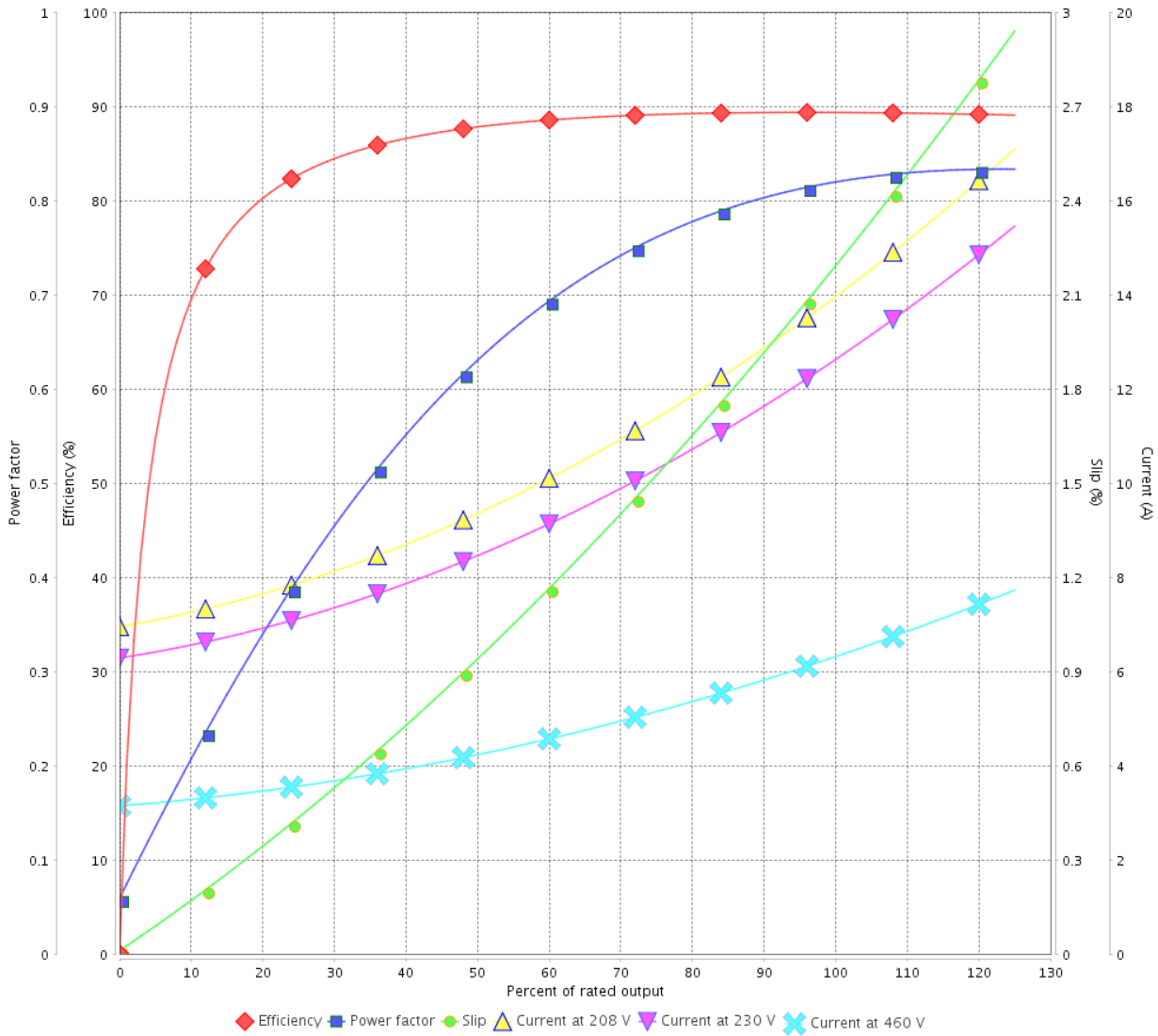
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Product line : NEMA Premium Efficiency Three-Phase Product code : 13528749

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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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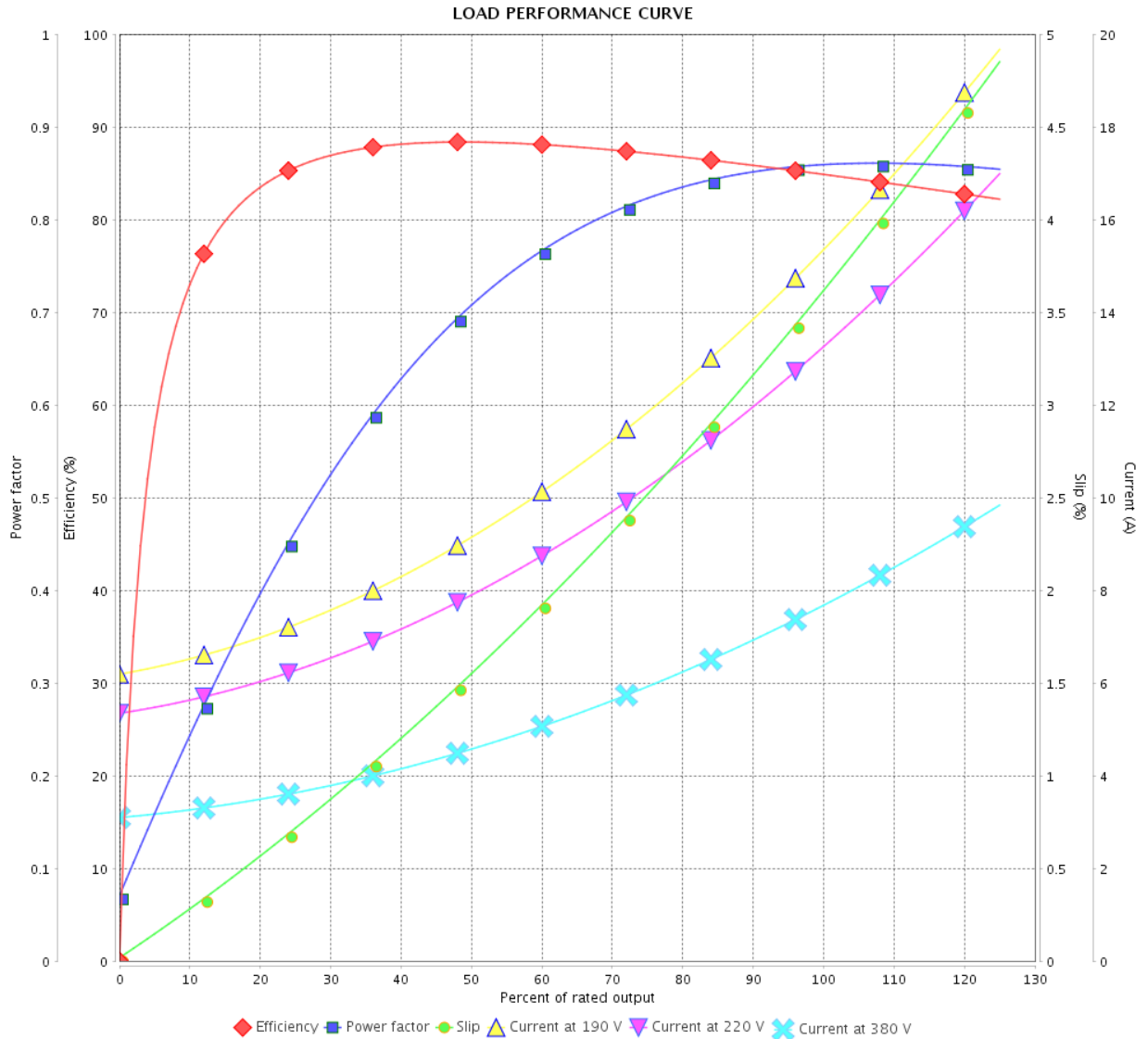
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

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Performance : 190-220/380 V 50 Hz 4P

Rated current : 15.4-13.3/7.71 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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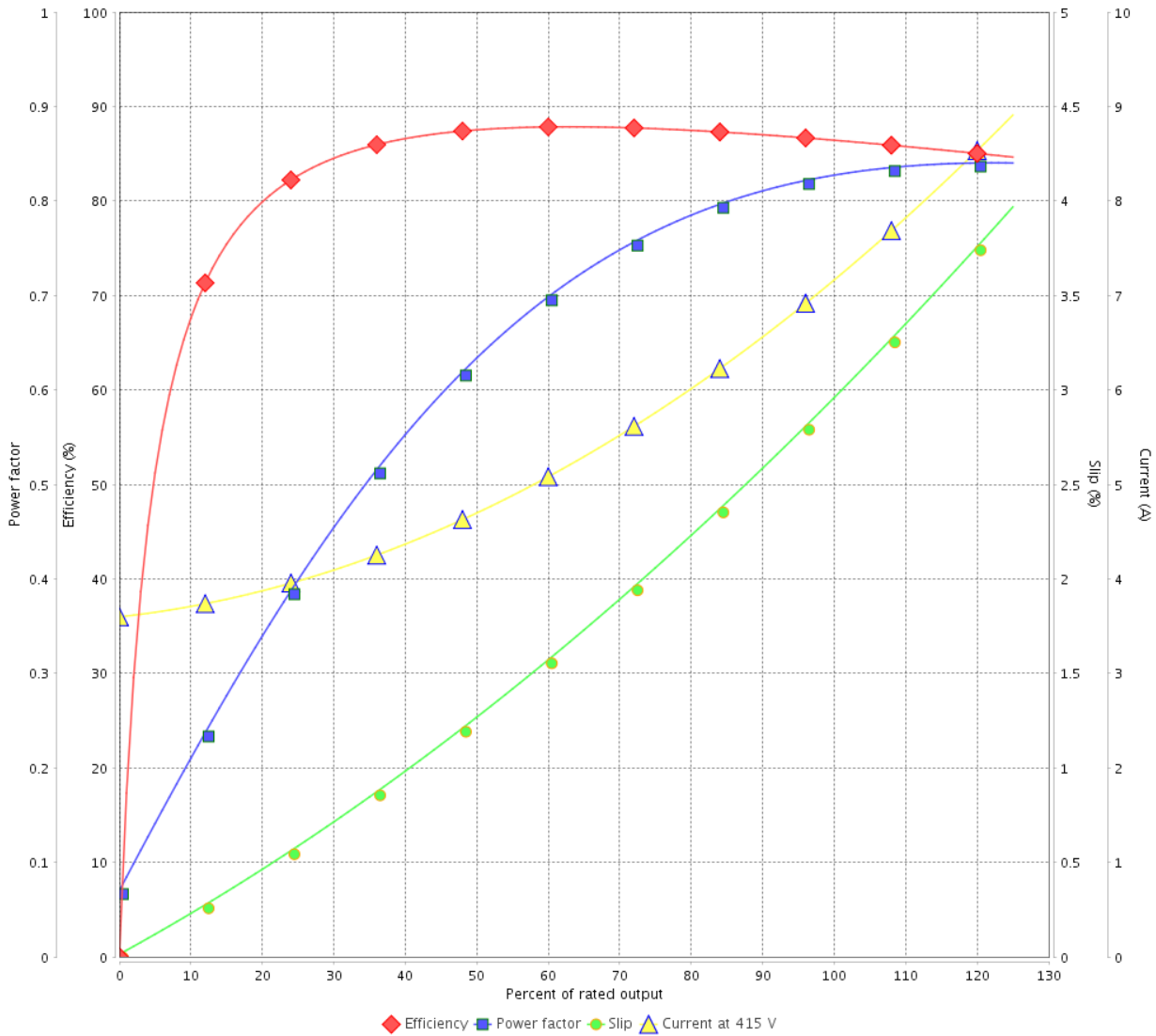
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 415 V 50 Hz 4P

Rated current	: 7.18 A	Moment of inertia (J)	: 0.0169 kgm ²
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 2.49 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B

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