

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12675353		
Frame	: 182/4TC	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	: 42.0 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0088 kgm ²		
Design	: B				
Output [HP]	5	5	5		
Poles	2	2	2		
Frequency [Hz]	60	50	50		
Rated voltage [V]	230/460	190/380	220/415		
Rated current [A]	11.8/5.90	14.3/7.17	12.8/6.81		
L. R. Amperes [A]	92.0/46.0	91.8/45.9	91.2/48.4		
LRC [A]	7.8x(Code J)	6.4x(Code G)	7.1x(Code H)		
No load current [A]	4.40/2.20	4.34/2.17	4.39/2.33		
Rated speed [RPM]	3500	2860	2875		
Slip [%]	2.78	4.67	4.17		
Rated torque [kgfm]	1.04	1.27	1.26		
Locked rotor torque [%]	220	180	200		
Breakdown torque [%]	300	250	280		
Service factor	1.15	1.00	1.00		
Temperature rise	80 K	105 K	105 K		
Locked rotor time	30s (cold) 17s (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%	87.2	89.8	89.3	
	50%	87.5	88.1	88.1	
	75%	88.5	87.3	87.8	
	100%	88.5	85.2	86.2	
Power Factor	25%	0.49	0.55	0.52	
	50%	0.76	0.82	0.79	
	75%	0.85	0.89	0.87	
	100%	0.89	0.92	0.91	
Bearing type	: <u>Drive end</u> 6206 ZZ	<u>Non drive end</u> 6205 ZZ	Foundation loads		
Sealing	: V'Ring	Without Bearing Seal	Max. traction	: 53 kgf	
Lubrication interval	: -	-	Max. compression	: 95 kgf	
Lubricant amount	: -	-			
Lubricant type	: Mobil Polyrex EM				
Notes USABLE @208V 13.1A SF 1.00 SFA 13.1A					
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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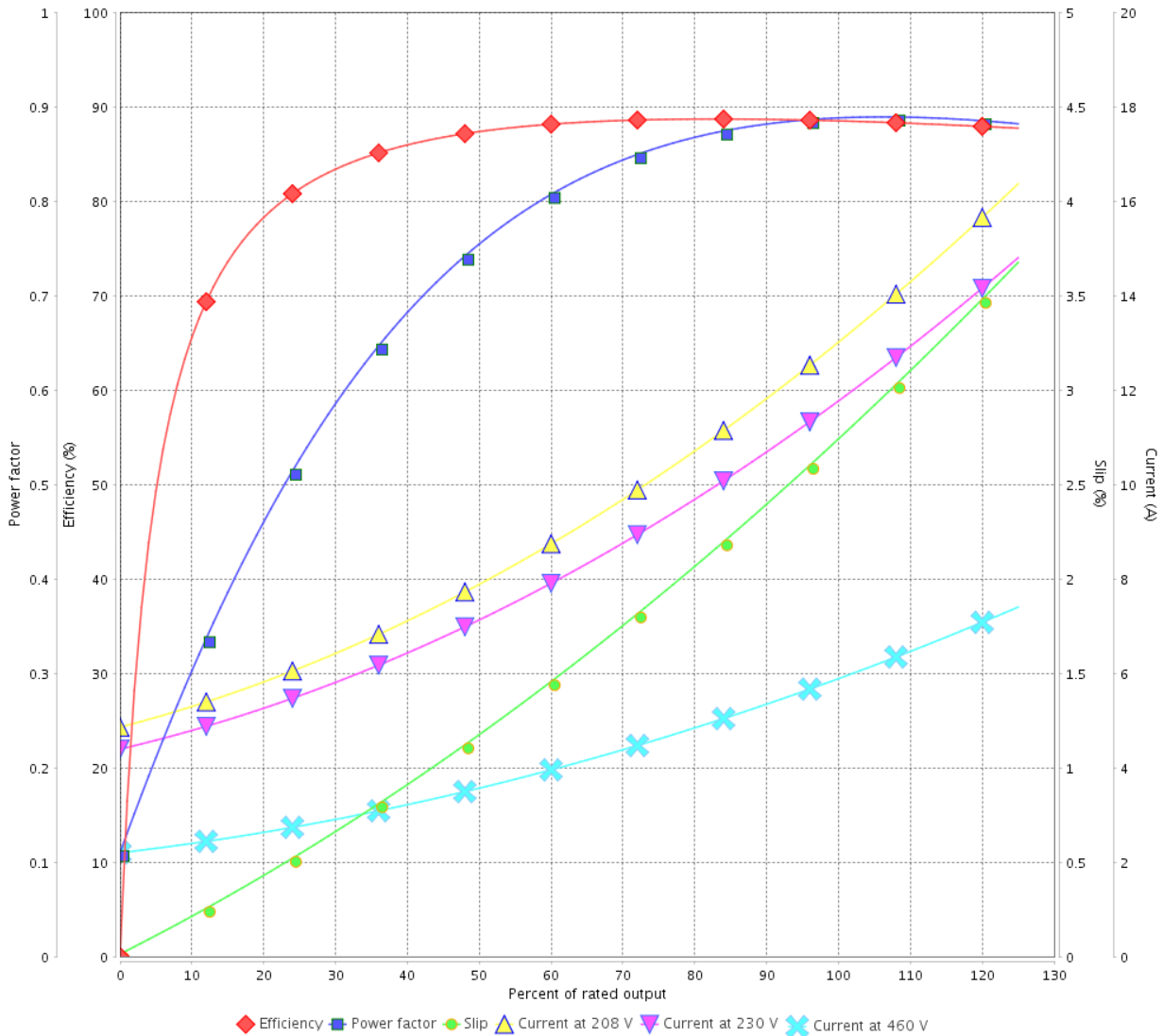
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12675353

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Performance : 230/460 V 60 Hz 2P

Rated current : 11.8/5.90 A
 LRC : 7.8
 Rated torque : 1.04 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 300 %
 Rated speed : 3500 rpm

Moment of inertia (J) : 0.0088 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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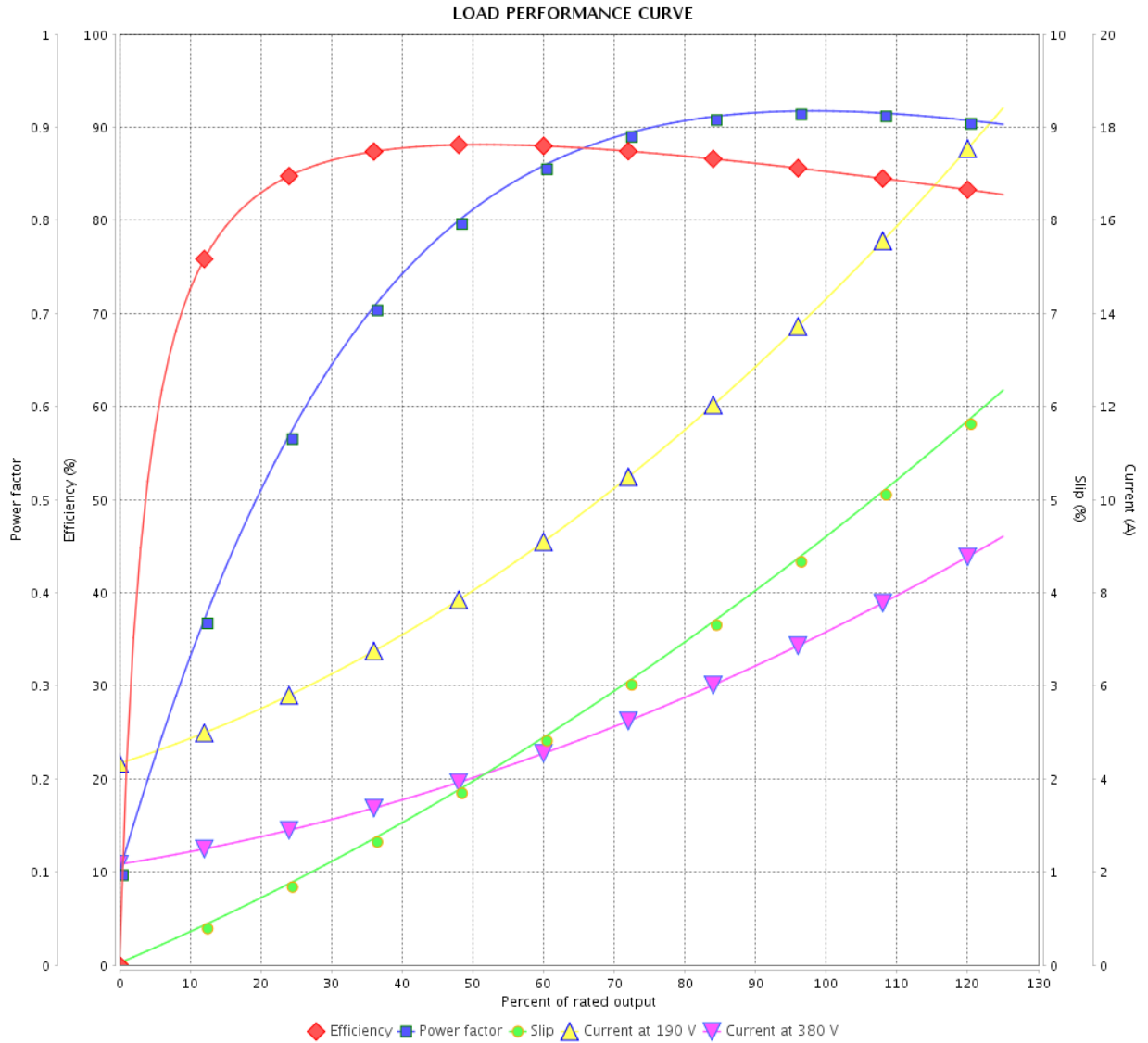
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

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Performance : 190/380 V 50 Hz 2P

Rated current : 14.3/7.17 A
 LRC : 6.4
 Rated torque : 1.27 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 250 %
 Rated speed : 2860 rpm

Moment of inertia (J) : 0.0088 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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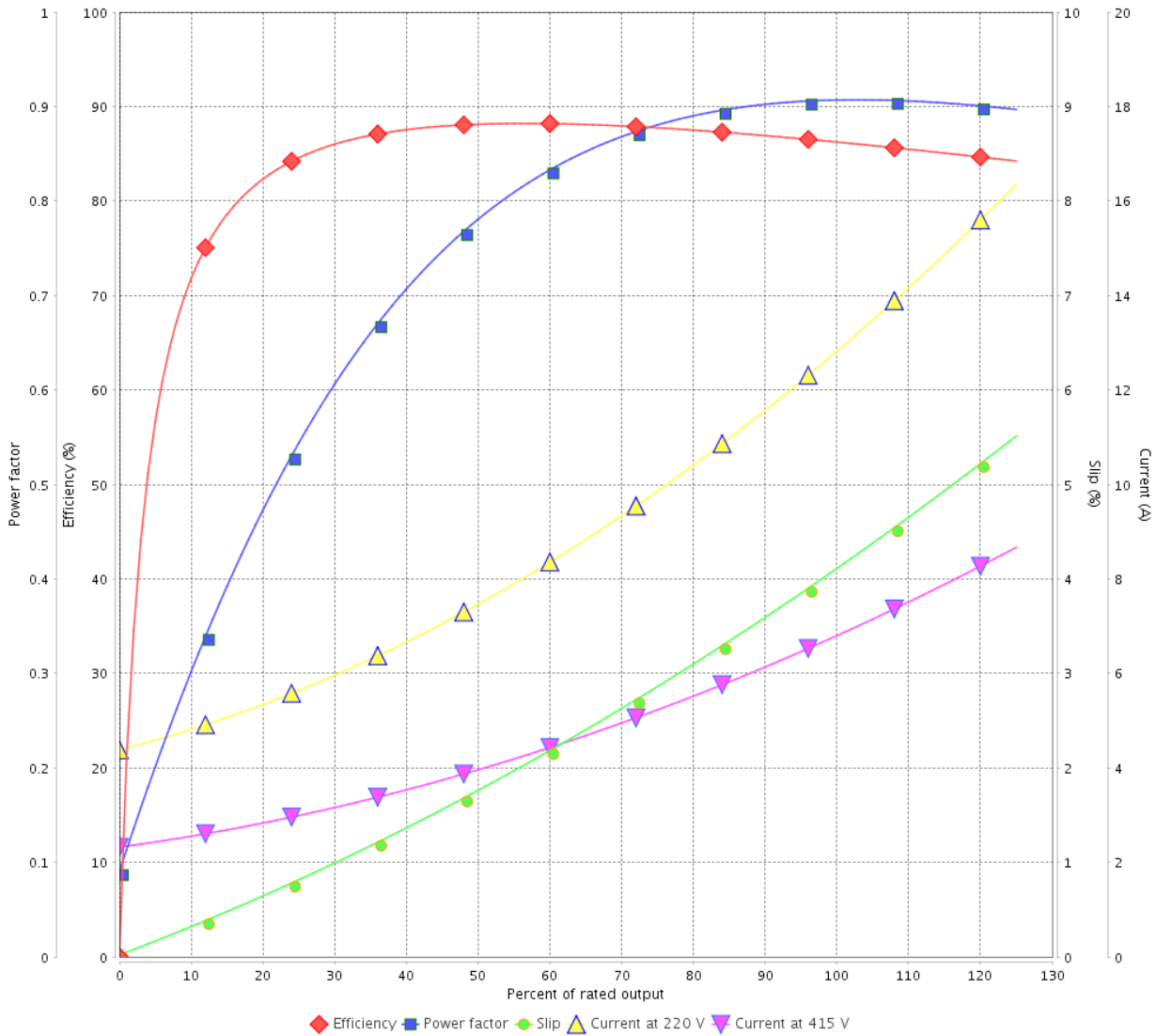
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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Performance : 220/415 V 50 Hz 2P

Rated current : 12.8/6.81 A
 LRC : 7.1
 Rated torque : 1.26 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 280 %
 Rated speed : 2875 rpm

Moment of inertia (J) : 0.0088 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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