

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12617981	
Frame	: 143/5T	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	: 15.7 kg	
Protection degree	: IP55	Moment of inertia (J)	: 0.0043 kgm ²	
Design	: B			
Output [HP]	1.5	1.5	1.5	
Poles	2	2	2	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	3.74/1.87	4.44/2.22	4.02/2.13	
L. R. Amperes [A]	34.0/17.0	32.0/16.0	32.1/17.0	
LRC [A]	9.1x(Code L)	7.2x(Code H)	8.0x(Code J)	
No load current [A]	1.72/0.859	1.69/0.845	1.72/0.914	
Rated speed [RPM]	3520	2895	2905	
Slip [%]	2.22	3.50	3.17	
Rated torque [kgfm]	0.309	0.376	0.375	
Locked rotor torque [%]	229	190	220	
Breakdown torque [%]	300	280	310	
Service factor		1.15	1.15	
Temperature rise	80 K	80 K	80 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%	78.4	82.2	
	50%	80.0	82.2	
	75%	82.5	84.0	
	100%	84.0	83.6	
Power Factor	25%	0.44	0.46	
	50%	0.71	0.73	
	75%	0.82	0.84	
	100%	0.88	0.89	
Bearing type	: <u>Drive end</u> 6205 ZZ <u>Non drive end</u> 6203 ZZ	Foundation loads		
Sealing	: V'Ring V'Ring	Max. traction	: 25 kgf	
Lubrication interval	: - -	Max. compression	: 41 kgf	
Lubricant amount	: - -			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 4.13A SF 1.00 SFA 4.13A				
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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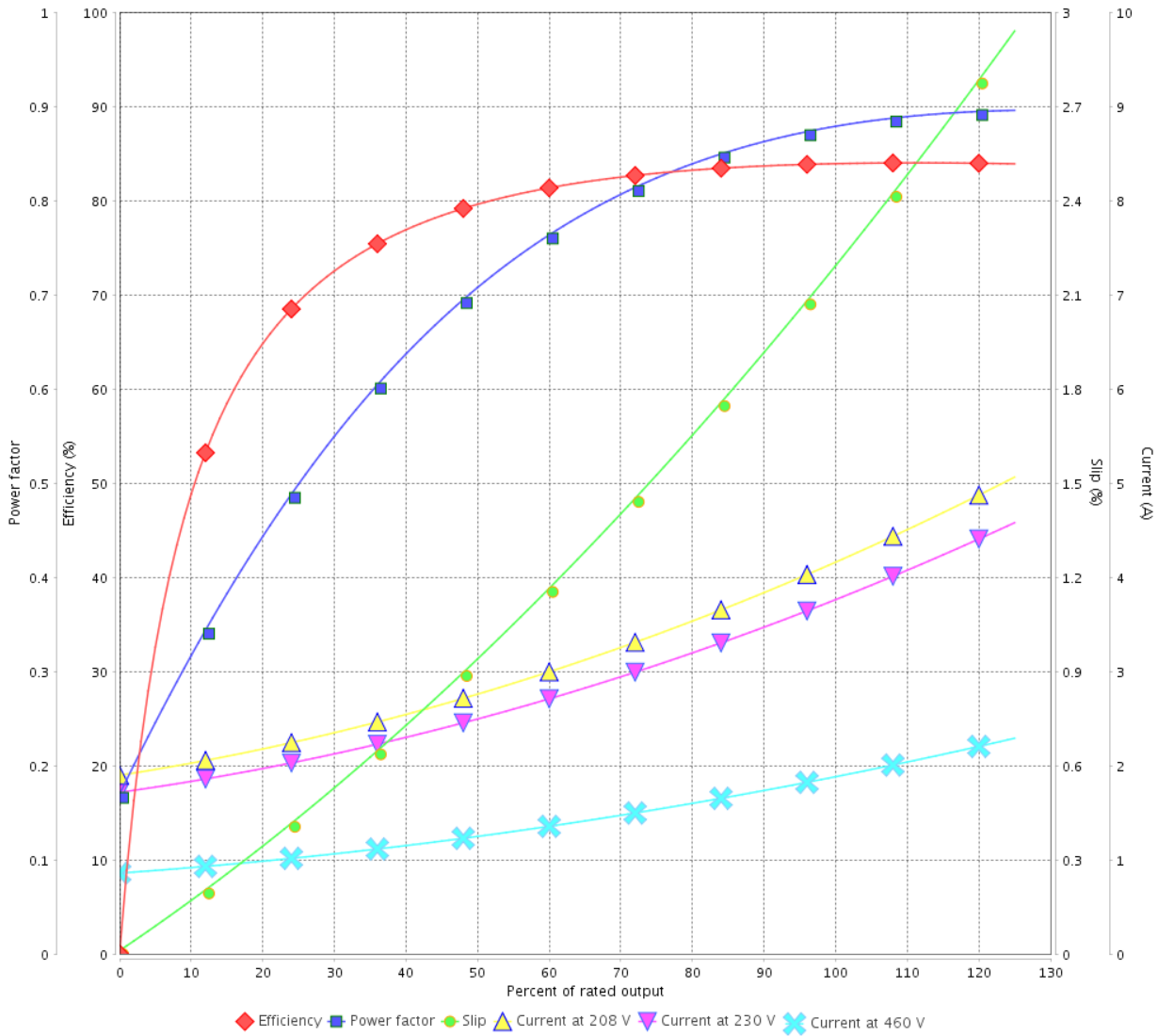
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Performance : 230/460 V 60 Hz 2P

Rated current : 3.74/1.87 A
 LRC : 9.1
 Rated torque : 0.309 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 300 %
 Rated speed : 3520 rpm

Moment of inertia (J) : 0.0043 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : B

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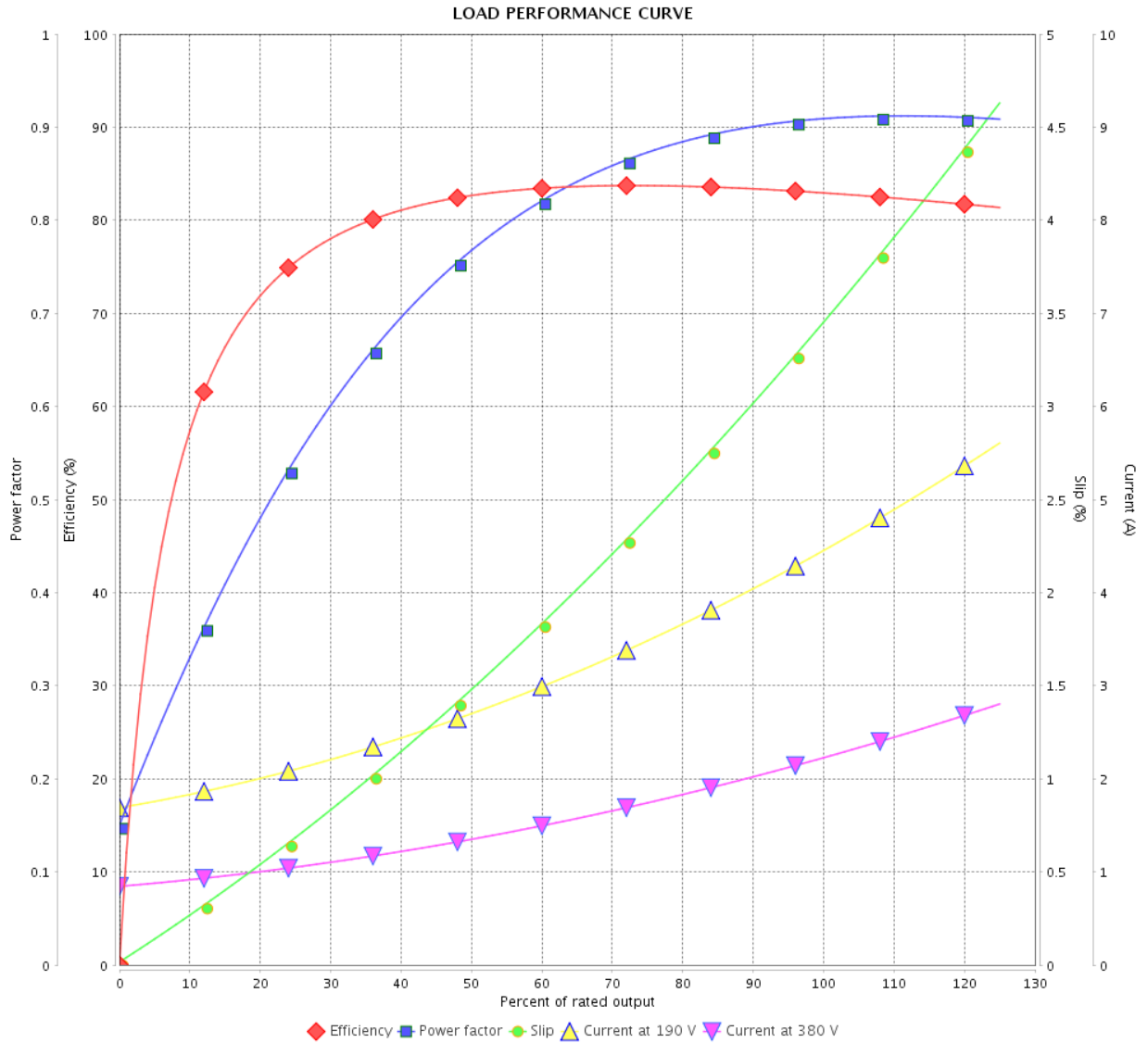
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

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Performance : 190/380 V 50 Hz 2P

Rated current : 4.44/2.22 A
 LRC : 7.2
 Rated torque : 0.376 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 280 %
 Rated speed : 2895 rpm

Moment of inertia (J) : 0.0043 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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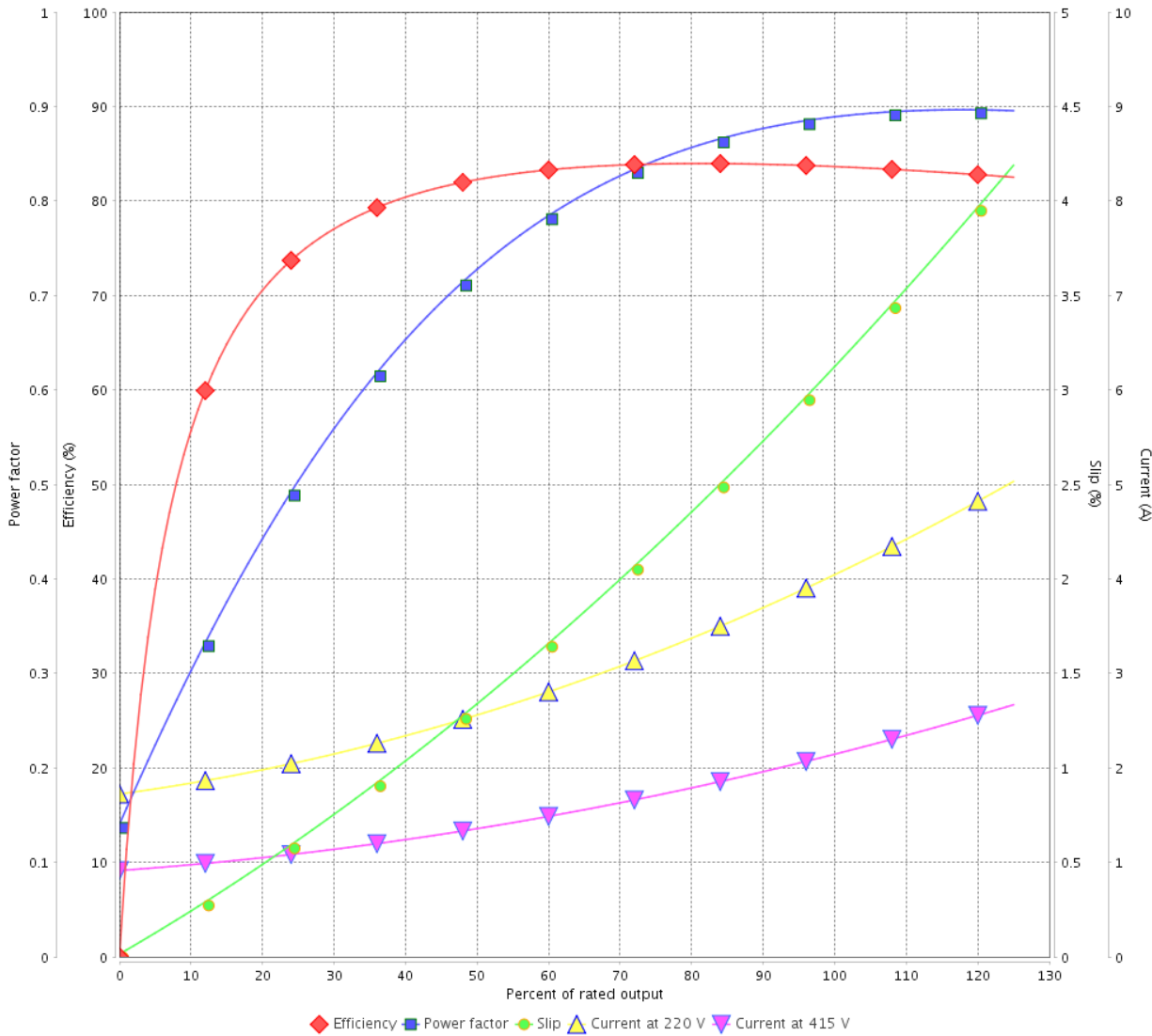
Three Phase Induction Motor - Squirrel Cage



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Performance : 220/415 V 50 Hz 2P

Rated current : 4.02/2.13 A
 LRC : 8.0
 Rated torque : 0.375 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 310 %
 Rated speed : 2905 rpm

Moment of inertia (J) : 0.0043 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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