

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12675408	
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 ²	: 17.6 kg	
Protection degree	: IP55	Moment of inertia (J)	: 0.0067 kgm ²	
Design	: B			
Output [HP]	1	1	1	
Poles	6	6	6	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	3.16/1.58	3.74/1.87	3.41/1.81	
L. R. Amperes [A]	18.3/9.16	16.5/8.23	16.7/8.87	
LRC [A]	5.8x(Code J)	4.4x(Code F)	4.9x(Code G)	
No load current [A]	2.03/1.01	2.00/1.00	2.02/1.07	
Rated speed [RPM]	1145	915	930	
Slip [%]	4.58	8.50	7.00	
Rated torque [kgfm]	0.634	0.793	0.780	
Locked rotor torque [%]	229	170	200	
Breakdown torque [%]	280	200	229	
Service factor		1.00	1.00	
Temperature rise	80 K	105 K	105 K	
Locked rotor time	55s (cold) 31s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level ²	50.0 dB(A)	47.0 dB(A)	47.0 dB(A)	
Efficiency (%)	25%	79.5	80.4	
	50%	80.0	79.4	
	75%	82.5	80.4	
	100%	82.5	78.6	
Power Factor	25%	0.28	0.31	
	50%	0.50	0.54	
	75%	0.63	0.68	
	100%	0.72	0.76	
Bearing type	: <u>Drive end</u> 6205 ZZ <u>Non drive end</u> 6203 ZZ	Foundation loads		
Sealing	: V'Ring Without Bearing Seal	Max. traction	: 42 kgf	
		Max. compression	: 60 kgf	
Lubrication interval	: -			
Lubricant amount	: -			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 3.49A SF 1.00 SFA 3.49A				
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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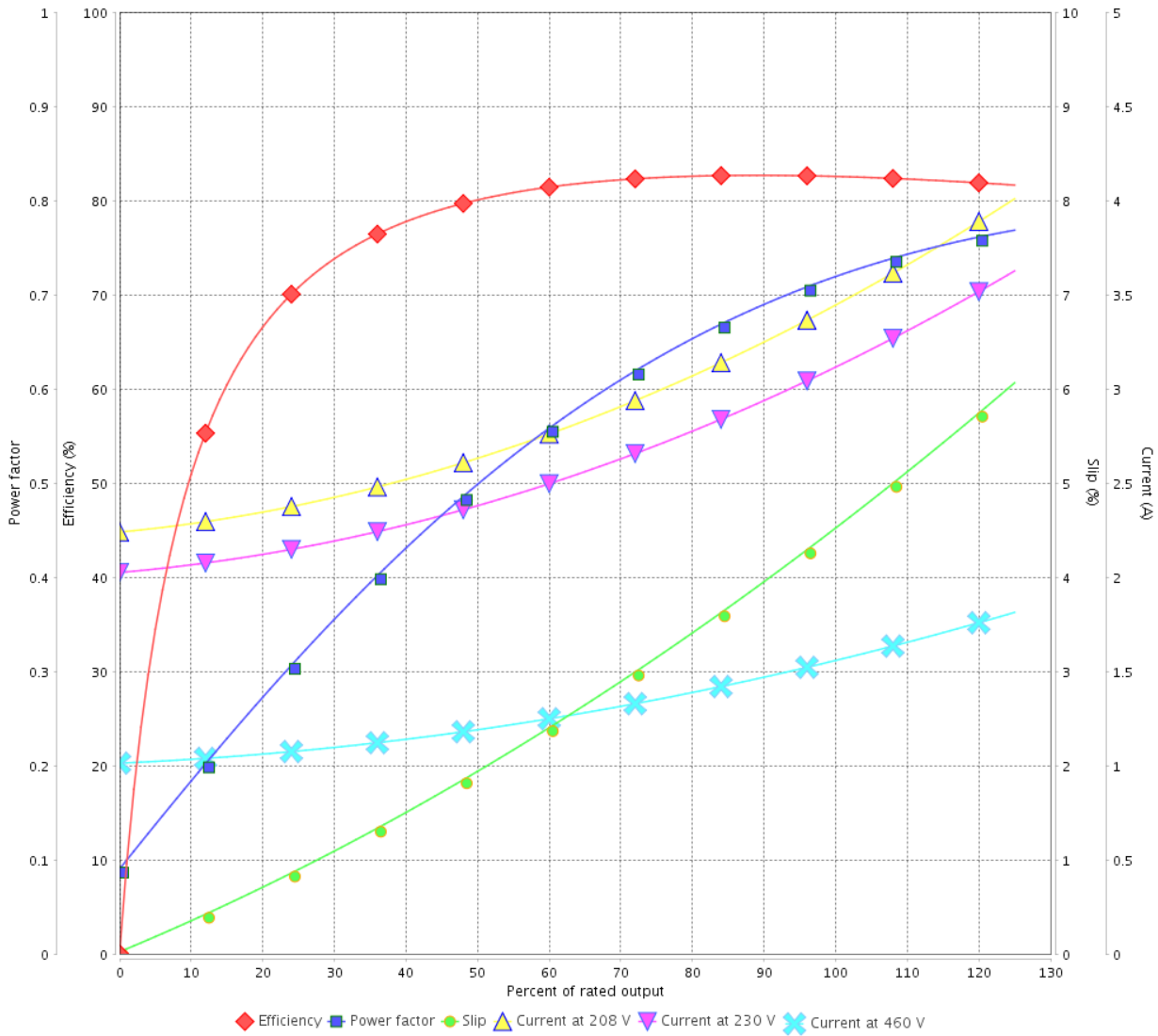
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12675408

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Performance : 230/460 V 60 Hz 6P

Rated current : 3.16/1.58 A
 LRC : 5.8
 Rated torque : 0.634 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 280 %
 Rated speed : 1145 rpm

Moment of inertia (J) : 0.0067 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : B

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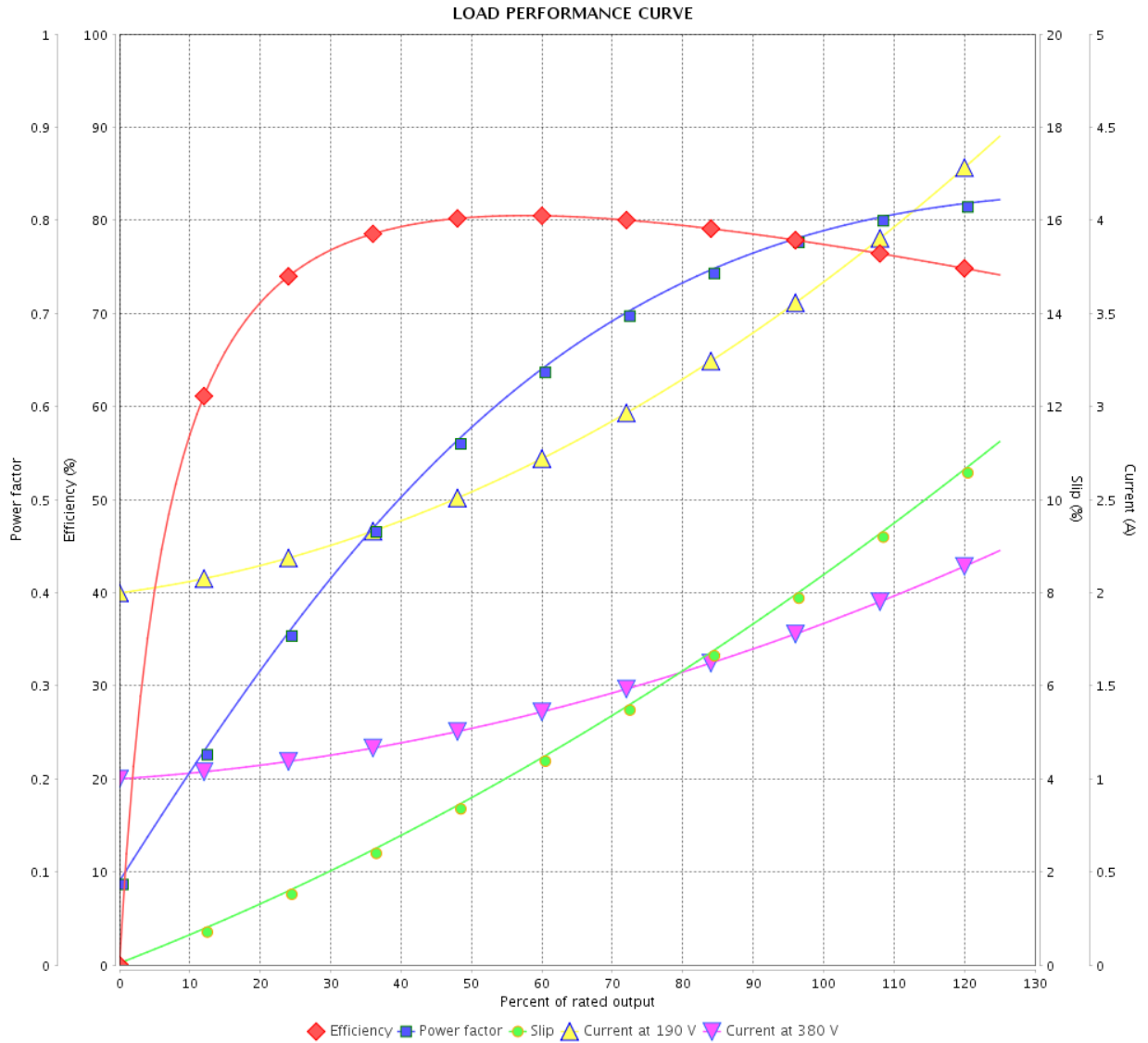
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

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Performance : 190/380 V 50 Hz 6P

Rated current : 3.74/1.87 A
 LRC : 4.4
 Rated torque : 0.793 kgfm
 Locked rotor torque : 170 %
 Breakdown torque : 200 %
 Rated speed : 915 rpm

Moment of inertia (J) : 0.0067 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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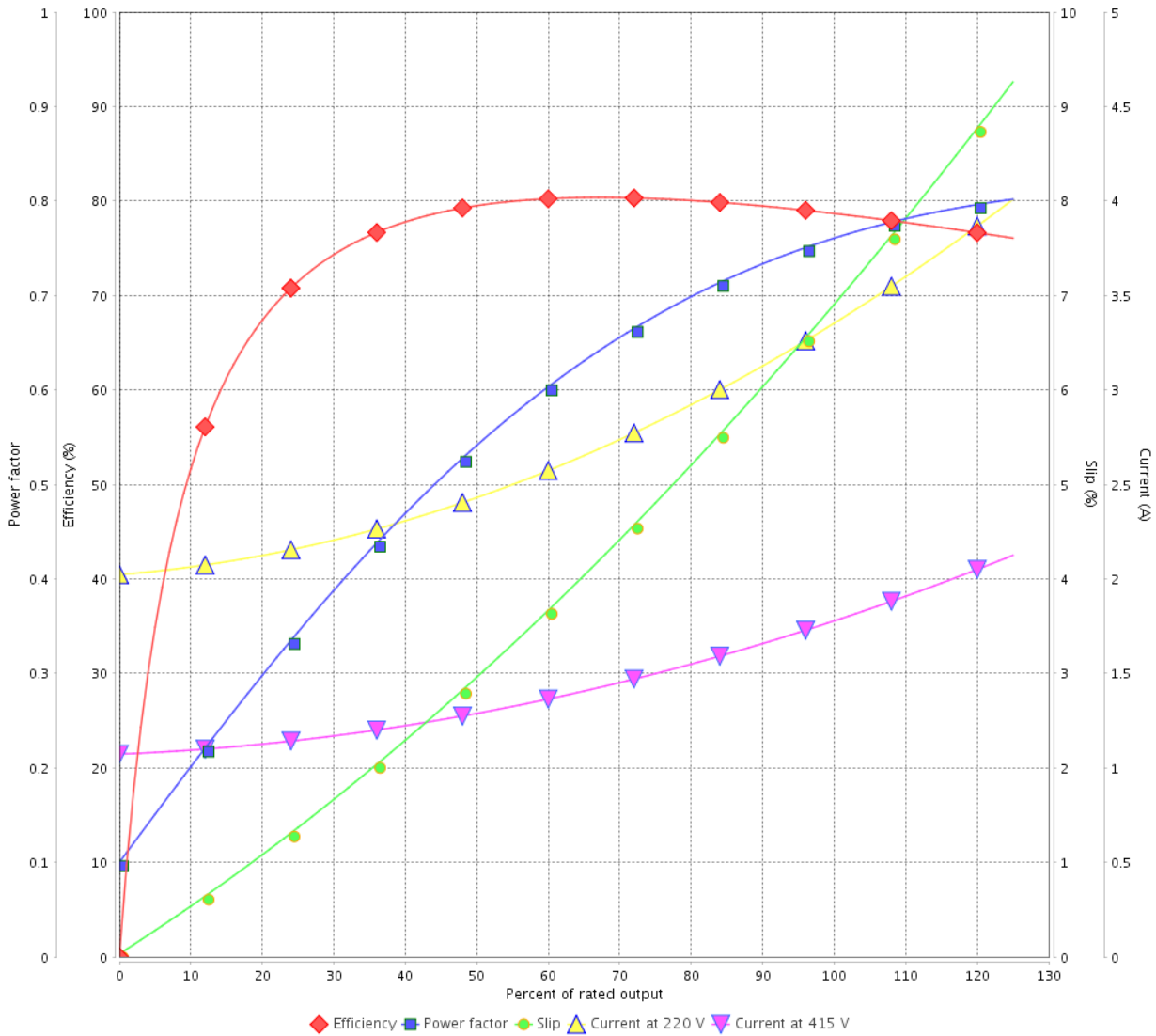
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 220/415 V 50 Hz 6P

Rated current	: 3.41/1.81 A	Moment of inertia (J)	: 0.0067 kgm ²
LRC	: 4.9	Duty cycle	: Cont.(S1)
Rated torque	: 0.780 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 930 rpm	Design	: B

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