

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12502805	
Frame	: 254/6T	Cooling method	: IC01 - ODP	
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	: 85.7 kg	
Design	: B	Moment of inertia (J)	: 0.0767 kgm ²	
Output [HP]	15	15	15	
Poles	4	4	4	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	37.2/18.6	43.8/21.9	40.0/21.2	
L. R. Amperes [A]	249/125	237/118	236/125	
LRC [A]	6.7x(Code H)	5.4x(Code F)	5.9x(Code G)	
No load current [A]	19.0/9.50	17.3/8.67	18.3/9.68	
Rated speed [RPM]	1775	1465	1470	
Slip [%]	1.39	2.33	2.00	
Rated torque [kgfm]	6.13	7.43	7.41	
Locked rotor torque [%]	240	170	200	
Breakdown torque [%]	300	220	250	
Service factor	1.15	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	64.0 dB(A)	62.0 dB(A)	62.0 dB(A)	
Efficiency (%)	25%	91.0	92.3	91.4
	50%	91.7	91.3	90.8
	75%	92.4	91.0	91.1
	100%	93.0	89.7	90.2
Power Factor	25%	0.36	0.45	0.40
	50%	0.62	0.71	0.66
	75%	0.73	0.81	0.78
	100%	0.80	0.85	0.83
Bearing type	: Drive end 6309 Z C3 Non drive end 6208 Z C3	Foundation loads		
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction	: 248 kgf	
Lubrication interval	: 20000 h 20000 h	Max. compression	: 334 kgf	
Lubricant amount	: 13 g 8 g			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 41.1A SF 1.00 SFA 41.1A				
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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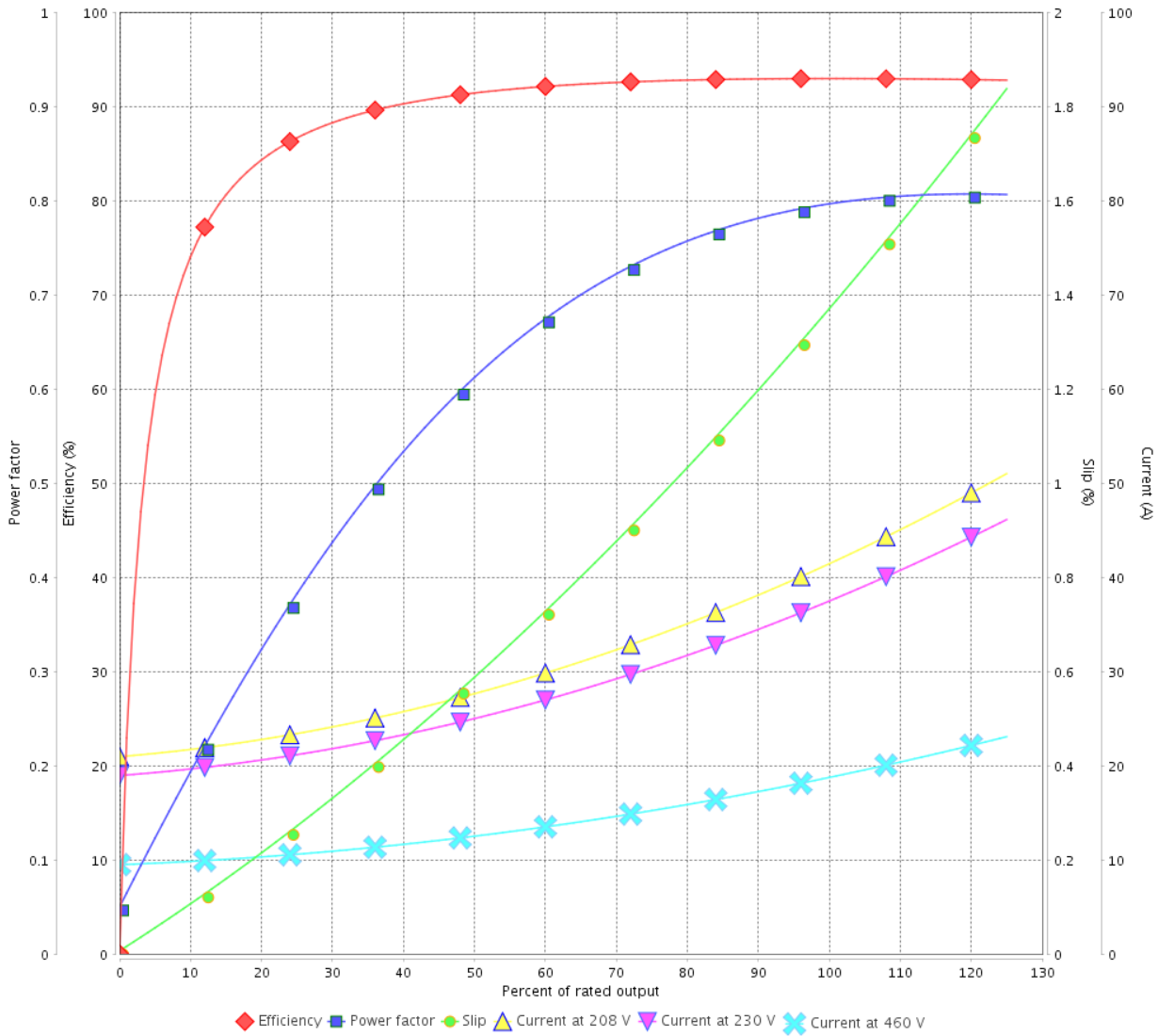
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12502805

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Performance : 230/460 V 60 Hz 4P

Rated current : 37.2/18.6 A
 LRC : 6.7
 Rated torque : 6.13 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 300 %
 Rated speed : 1775 rpm

Moment of inertia (J) : 0.0767 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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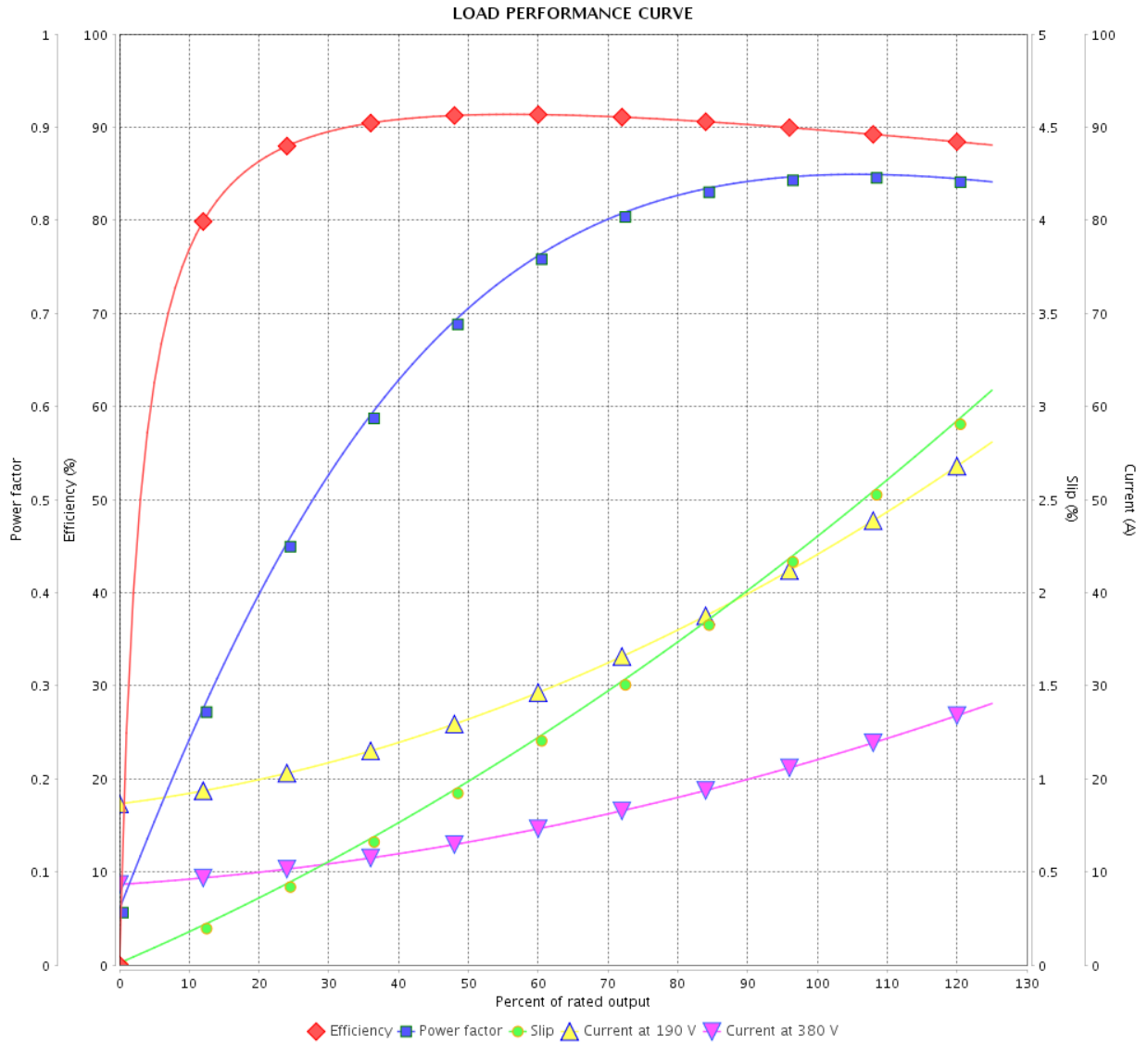
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

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Performance : 190/380 V 50 Hz 4P

Rated current : 43.8/21.9 A
 LRC : 5.4
 Rated torque : 7.43 kgfm
 Locked rotor torque : 170 %
 Breakdown torque : 220 %
 Rated speed : 1465 rpm

Moment of inertia (J) : 0.0767 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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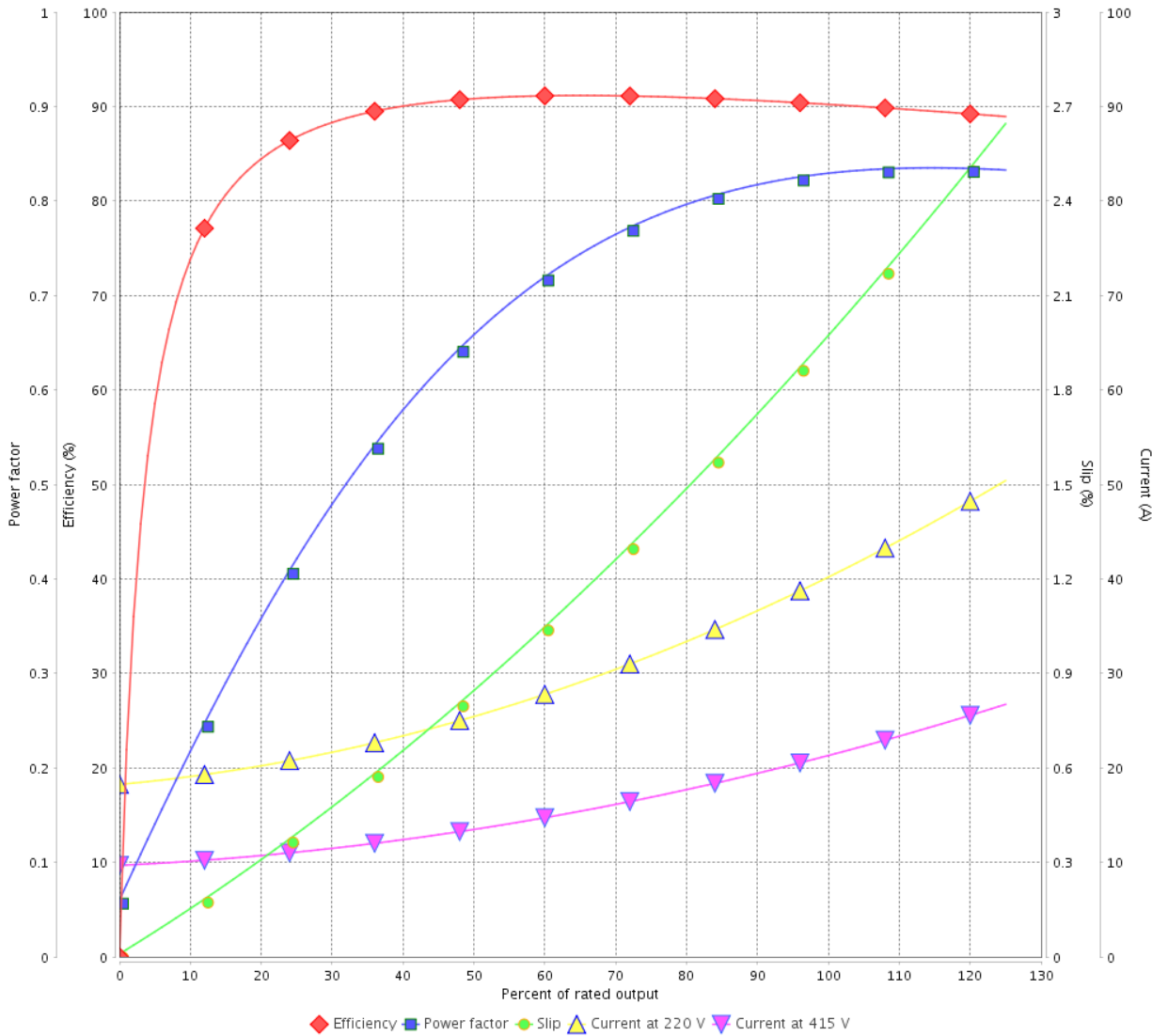
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 220/415 V 50 Hz 4P

Rated current : 40.0/21.2 A
 LRC : 5.9
 Rated torque : 7.41 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 250 %
 Rated speed : 1470 rpm

Moment of inertia (J) : 0.0767 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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