

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12636472	
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 ³	: 96.5 kg	
Design	: B	Moment of inertia (J)	: 0.0939 kgm ²	
Output [HP]	20	20	20	
Poles	4	4	4	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190-220/380	415	
Rated current [A]	50.0/25.0	59.8-51.6/29.9	28.1	
L. R. Amperes [A]	315/158	311-269/155	174	
LRC [A]	6.3x(Code G)	5.2x(Code F)	6.2x(Code G)	
No load current [A]	22.9/11.4	22.4-19.4/11.2	13.5	
Rated speed [RPM]	1770	1460	1465	
Slip [%]	1.67	2.67	2.33	
Rated torque [kgfm]	8.20	9.94	9.91	
Locked rotor torque [%]	240	180	220	
Breakdown torque [%]	290	220	270	
Service factor	1.15	1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	27s (cold) 15s (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%			
	50%	92.4	91.8	
	75%	92.4	91.2	
	100%	93.0	89.7	
Power Factor	25%			
	50%	0.63	0.72	
	75%	0.74	0.82	
	100%	0.81	0.85	
Bearing type	: Drive end 6309 Z C3 Non drive end 6208 Z C3	Foundation loads		
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction	: 373 kgf	
Lubrication interval	: 20000 h 20000 h	Max. compression	: 469 kgf	
Lubricant amount	: 13 g 8 g			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 55.3A SF 1.00 SFA 55.3A				
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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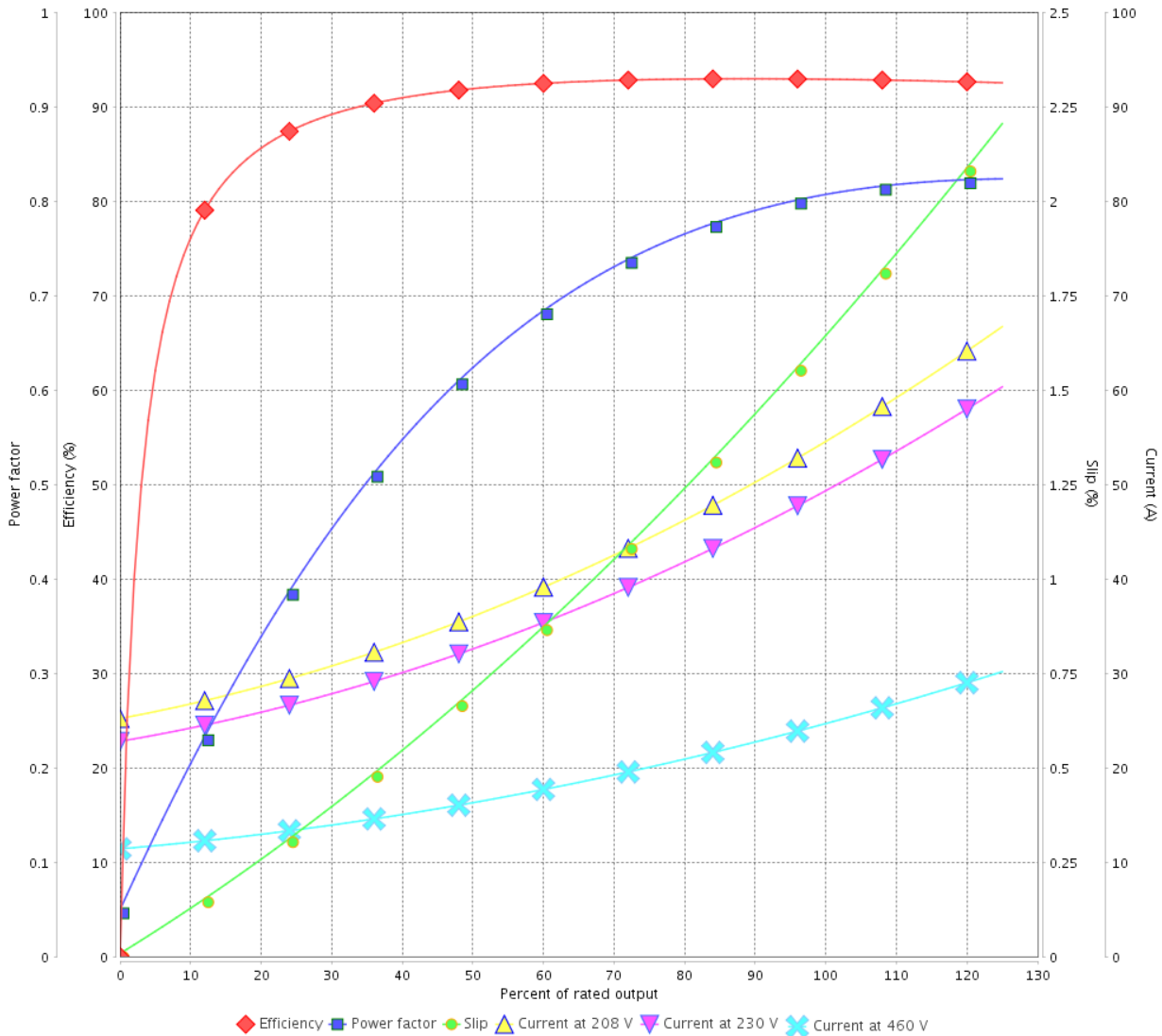
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12636472

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Performance : 230/460 V 60 Hz 4P

Rated current : 50.0/25.0 A
 LRC : 6.3
 Rated torque : 8.20 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 290 %
 Rated speed : 1770 rpm

Moment of inertia (J) : 0.0939 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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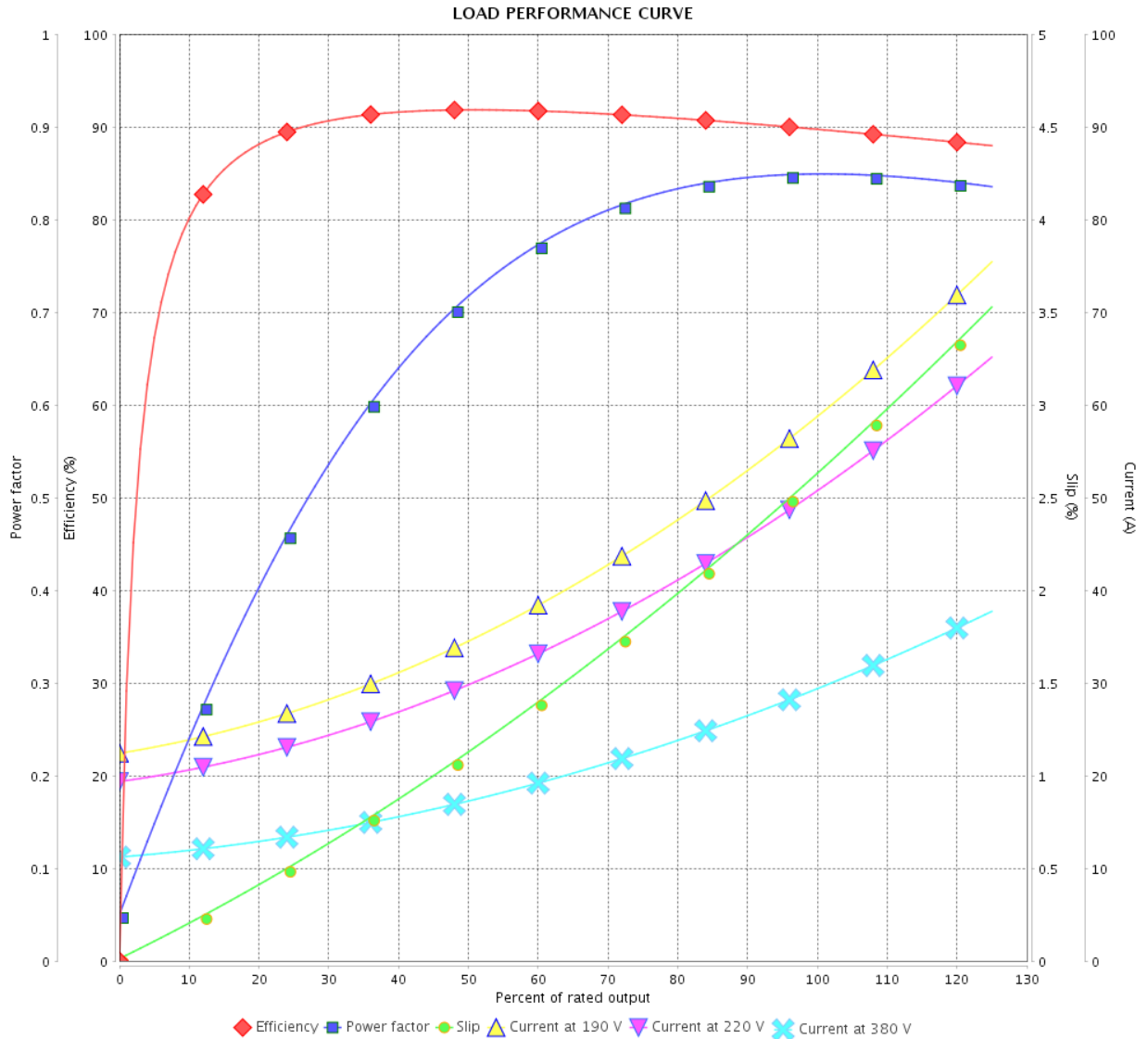
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : NEMA Premium Efficiency Three-Phase Product code : 12636472



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

Rated current : 59.8-51.6/29.9 A
 LRC : 5.2
 Rated torque : 9.94 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 220 %
 Rated speed : 1460 rpm

Moment of inertia (J) : 0.0939 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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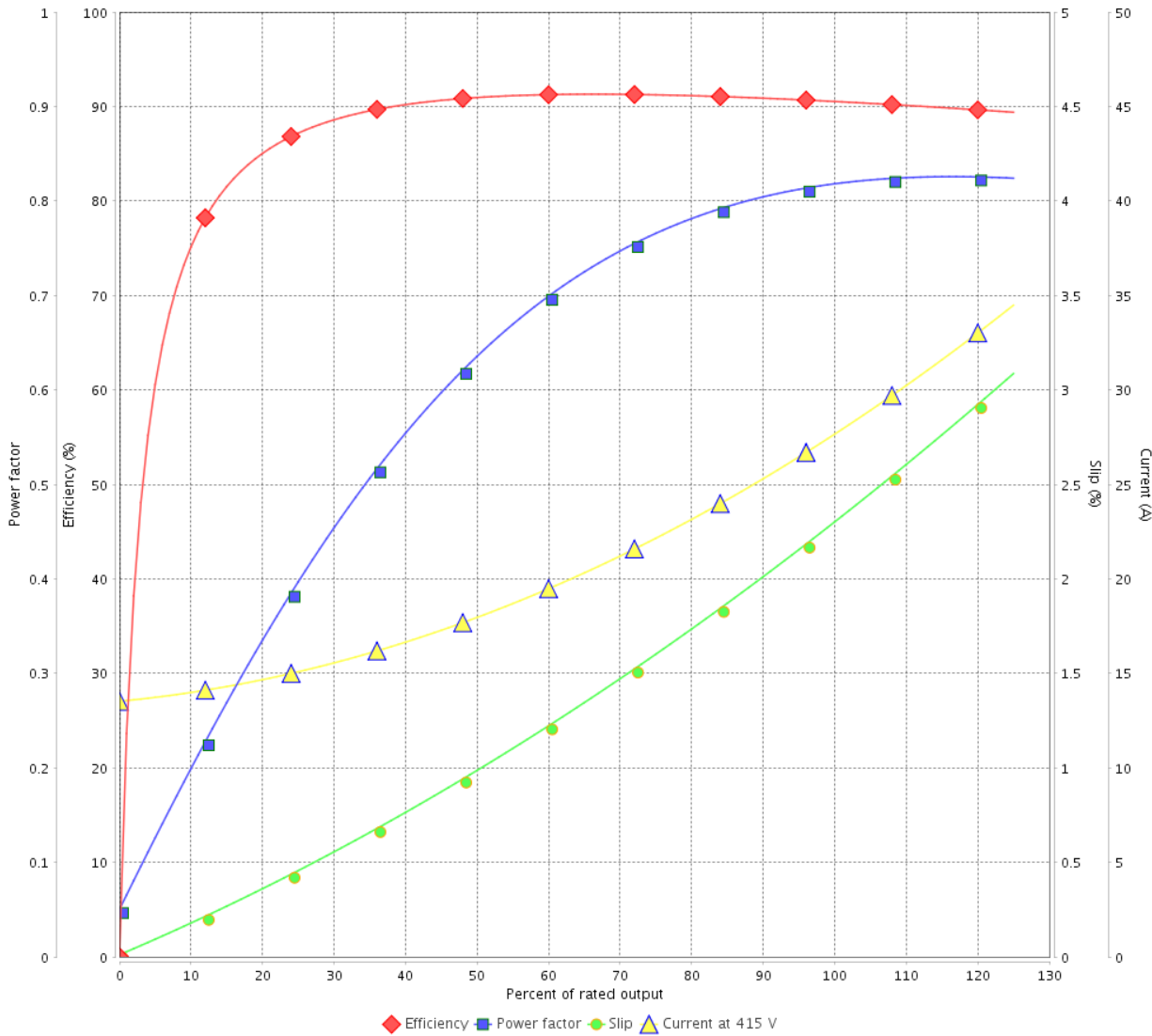
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12636472

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Performance : 415 V 50 Hz 4P

Rated current	: 28.1 A	Moment of inertia (J)	: 0.0939 kgm ²
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 9.91 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

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