

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12682876	
Frame	: 254/6TC	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	: 81.1 kg	
Design	: B	Moment of inertia (J)	: 0.0331 kgm ²	
Output [HP]	20	20	20	
Poles	2	2	2	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	47.6/23.8	58.0/29.0	51.7/27.4	
L. R. Amperes [A]	286/143	261/131	264/140	
LRC [A]	6.0x(Code G)	4.5x(Code D)	5.1x(Code E)	
No load current [A]	17.0/8.50	16.2/8.09	17.1/9.04	
Rated speed [RPM]	3525	2895	2905	
Slip [%]	2.08	3.50	3.17	
Rated torque [kgfm]	4.12	5.01	5.00	
Locked rotor torque [%]	180	130	140	
Breakdown torque [%]	240	190	210	
Service factor	1.15	1.00	1.00	
Temperature rise	80 K	105 K	80 K	
Locked rotor time	23s (cold) 13s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level ²	70.0 dB(A)	68.0 dB(A)	68.0 dB(A)	
Efficiency (%)	25%	90.0	92.6	91.6
	50%	90.2	90.6	90.6
	75%	91.0	89.5	90.0
	100%	91.0	87.2	88.7
Power Factor	25%	0.49	0.56	0.51
	50%	0.76	0.82	0.78
	75%	0.83	0.88	0.86
	100%	0.87	0.90	0.89
Bearing type	: Drive end 6309 Z C3 Non drive end 6208 Z C3	Foundation loads		
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction	: 124 kgf	
Lubrication interval	: 20000 h 20000 h	Max. compression	: 205 kgf	
Lubricant amount	: 13 g 8 g			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 52.6A SF 1.00 SFA 52.6A				
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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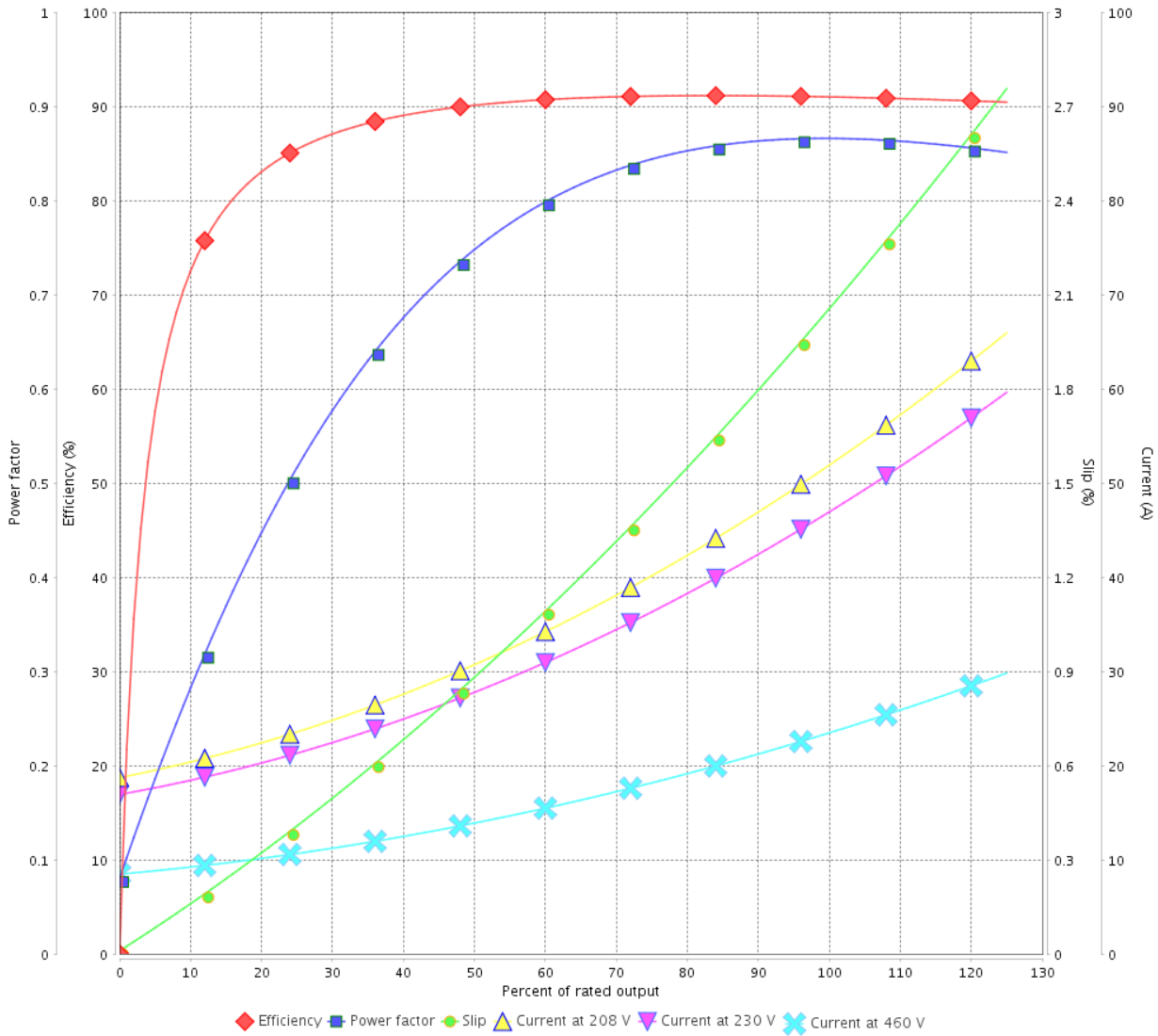
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12682876

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Performance : 230/460 V 60 Hz 2P

Rated current : 47.6/23.8 A
 LRC : 6.0
 Rated torque : 4.12 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 240 %
 Rated speed : 3525 rpm

Moment of inertia (J) : 0.0331 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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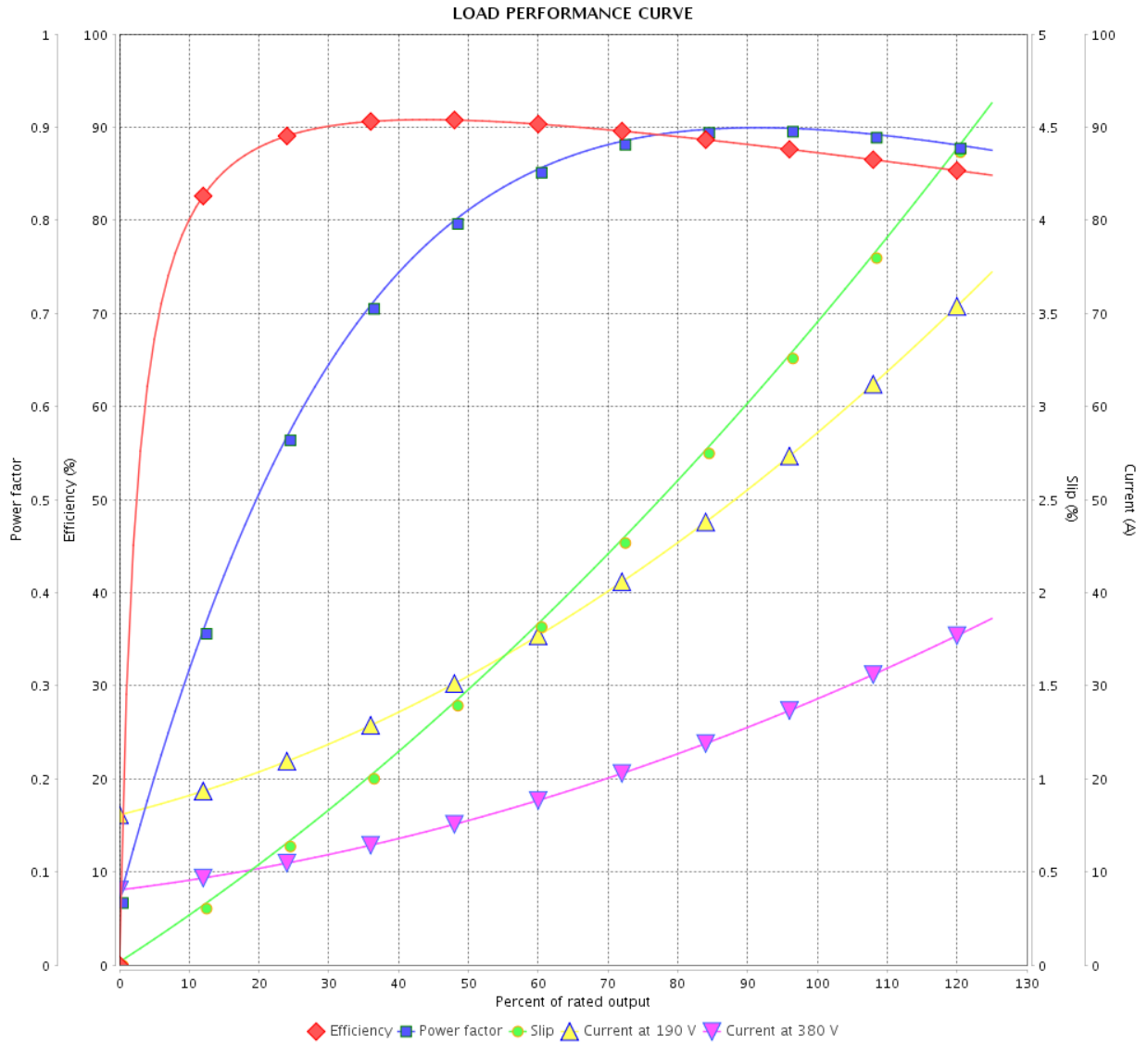
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

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Performance : 190/380 V 50 Hz 2P

Rated current : 58.0/29.0 A
 LRC : 4.5
 Rated torque : 5.01 kgfm
 Locked rotor torque : 130 %
 Breakdown torque : 190 %
 Rated speed : 2895 rpm

Moment of inertia (J) : 0.0331 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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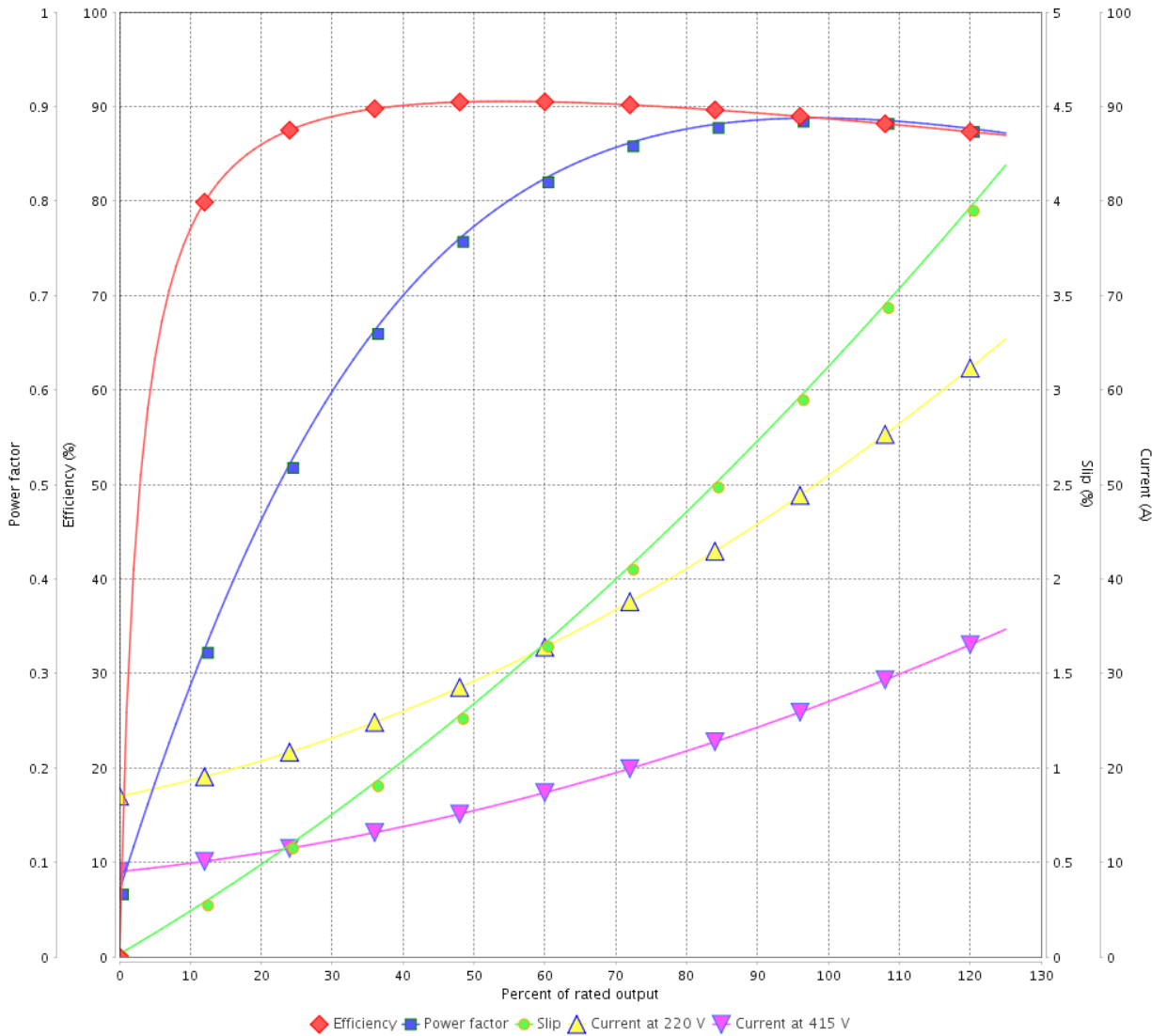
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 220/415 V 50 Hz 2P

Rated current : 51.7/27.4 A
 LRC : 5.1
 Rated torque : 5.00 kgfm
 Locked rotor torque : 140 %
 Breakdown torque : 210 %
 Rated speed : 2905 rpm

Moment of inertia (J) : 0.0331 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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