

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12651240	
Frame	: 213/5TC	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	: 57.5 kg	
Design	: B	Moment of inertia (J)	: 0.0433 kgm ²	
Output [HP]	7.5	7.5	7.5	
Poles	4	4	4	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	18.5/9.25	22.2/11.1	20.0/10.6	
L. R. Amperes [A]	133/66.6	129/64.4	130/68.9	
LRC [A]	7.2x(Code H)	5.8x(Code G)	6.5x(Code H)	
No load current [A]	8.79/4.39	8.64/4.32	8.88/4.71	
Rated speed [RPM]	1770	1455	1460	
Slip [%]	1.67	3.00	2.67	
Rated torque [kgfm]	3.08	3.74	3.73	
Locked rotor torque [%]	240	170	190	
Breakdown torque [%]	320	229	250	
Service factor	1.15	1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	23s (cold) 13s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level ²	59.0 dB(A)	56.0 dB(A)	56.0 dB(A)	
Efficiency (%)	25%	88.6	90.4	89.6
	50%	89.5	88.9	88.6
	75%	90.2	88.5	88.7
	100%	91.0	86.7	87.4
Power Factor	25%	0.39	0.46	0.42
	50%	0.65	0.73	0.69
	75%	0.77	0.83	0.80
	100%	0.82	0.87	0.86
Bearing type	: Drive end 6208 ZZ Non drive end 6206 ZZ	Foundation loads		
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction	: 143 kgf	
Lubrication interval	: - -	Max. compression	: 201 kgf	
Lubricant amount	: - -			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 20.5A SF 1.00 SFA 20.5A				
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.		
Rev.	Changes Summary	Performed	Checked	Date
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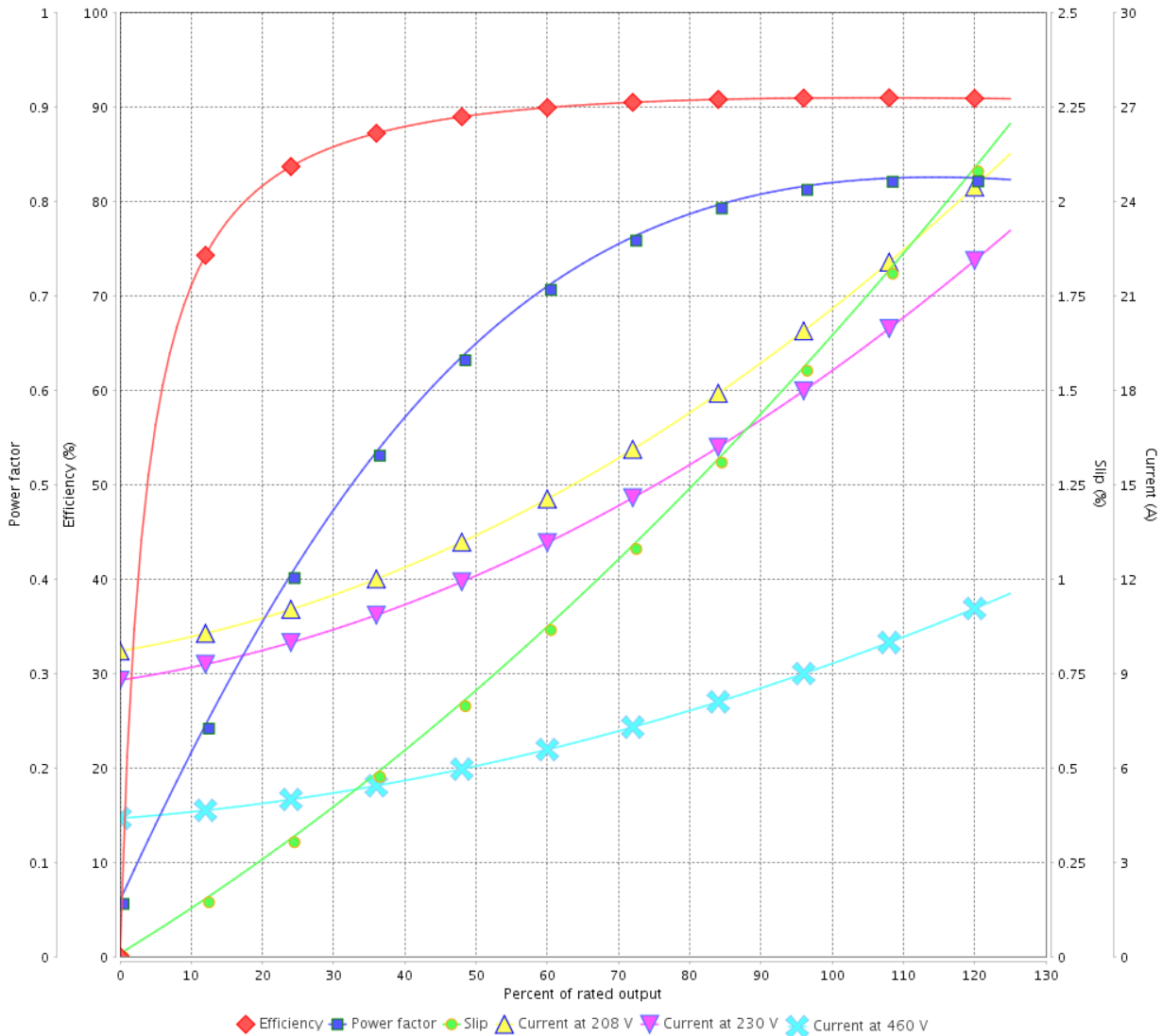
Three Phase Induction Motor - Squirrel Cage



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Performance : 230/460 V 60 Hz 4P

Rated current : 18.5/9.25 A
 LRC : 7.2
 Rated torque : 3.08 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 320 %
 Rated speed : 1770 rpm

Moment of inertia (J) : 0.0433 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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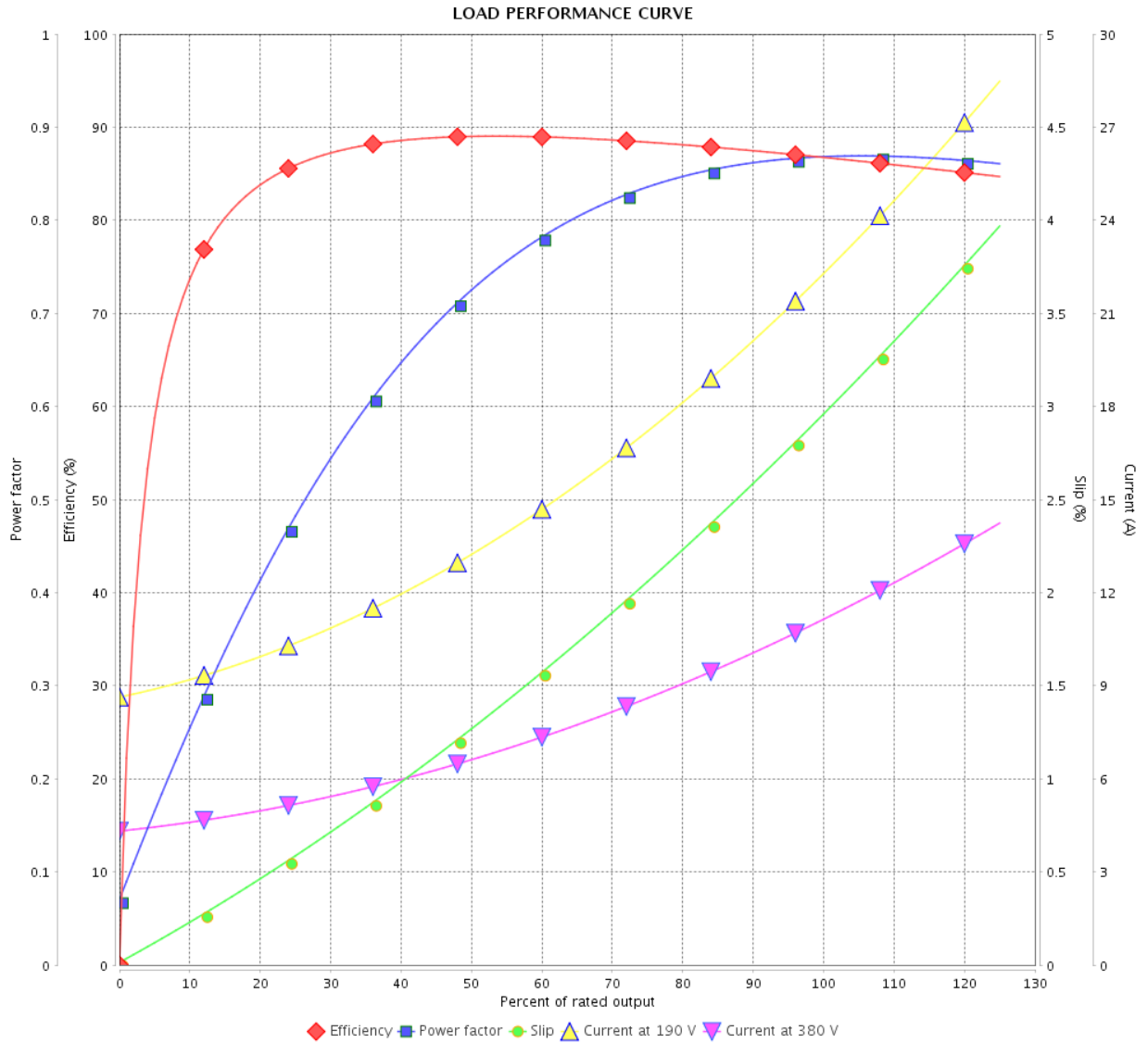
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

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Performance : 190/380 V 50 Hz 4P

Rated current : 22.2/11.1 A
 LRC : 5.8
 Rated torque : 3.74 kgfm
 Locked rotor torque : 170 %
 Breakdown torque : 229 %
 Rated speed : 1455 rpm

Moment of inertia (J) : 0.0433 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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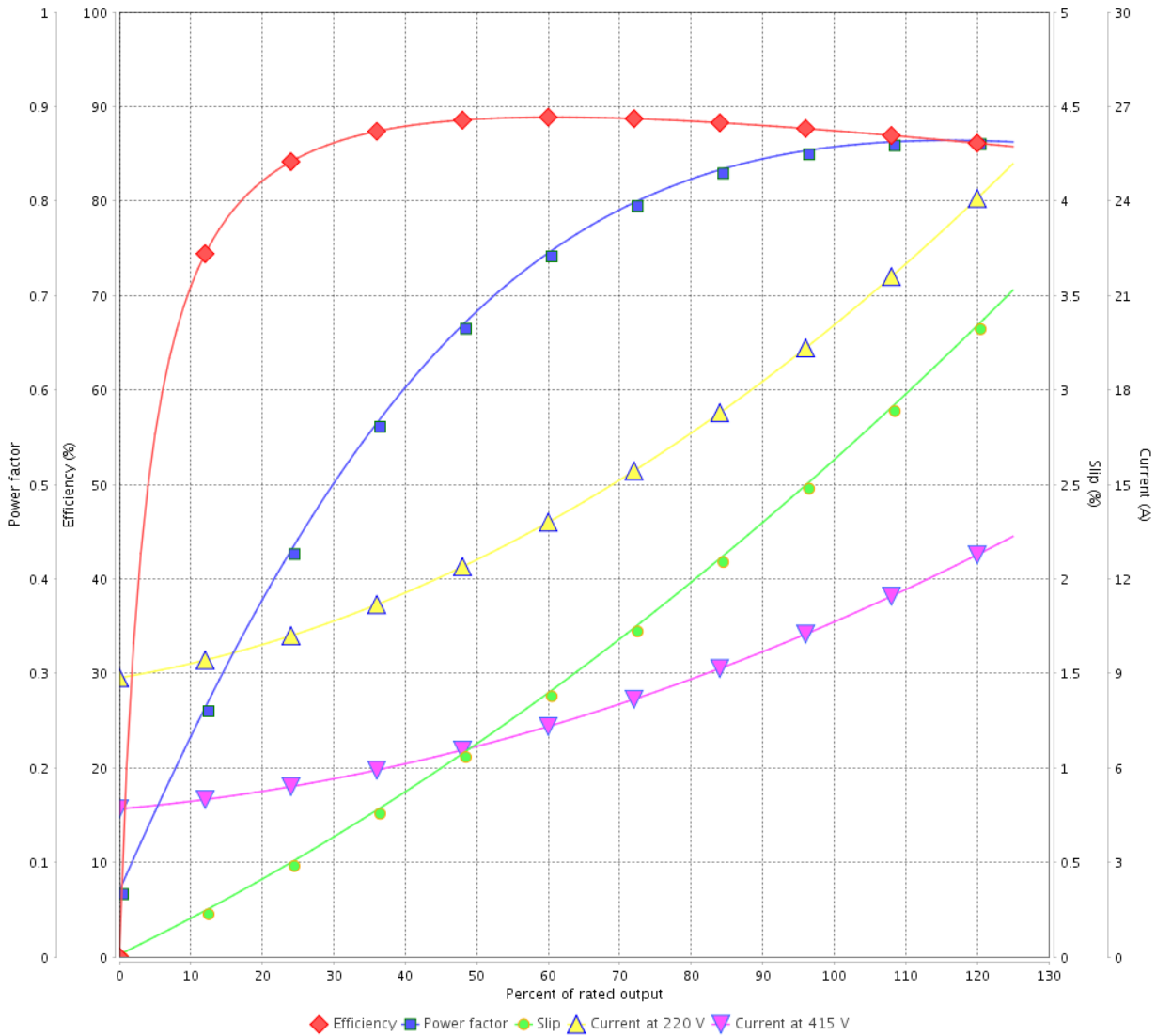
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 220/415 V 50 Hz 4P

Rated current : 20.0/10.6 A
 LRC : 6.5
 Rated torque : 3.73 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 250 %
 Rated speed : 1460 rpm

Moment of inertia (J) : 0.0433 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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