

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12751147	
Frame	: 182/4TC	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	: 36.4 kg	
Design	: B	Moment of inertia (J)	: 0.0077 kgm ²	
Output [HP]	7.5	7.5	7.5	
Poles	2	2	2	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	17.3/8.67	21.4/10.7	19.2/10.2	
L. R. Amperes [A]	128/64.2	120/59.9	121/64.3	
LRC [A]	7.4x(Code H)	5.6x(Code F)	6.3x(Code G)	
No load current [A]	6.43/3.22	6.33/3.17	6.59/3.49	
Rated speed [RPM]	3500	2865	2880	
Slip [%]	2.78	4.50	4.00	
Rated torque [kgfm]	1.56	1.90	1.89	
Locked rotor torque [%]	180	150	170	
Breakdown torque [%]	290	210	240	
Service factor	1.15	1.00	1.00	
Temperature rise	80 K	105 K	105 K	
Locked rotor time	18s (cold) 10s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level ²	65.0 dB(A)	63.0 dB(A)	63.0 dB(A)	
Efficiency (%)	25%	88.3	91.3	90.6
	50%	88.5	88.9	88.8
	75%	88.5	87.4	87.9
	100%	88.5	84.7	85.7
Power Factor	25%	0.49	0.55	0.51
	50%	0.76	0.82	0.79
	75%	0.85	0.89	0.87
	100%	0.90	0.92	0.91
Bearing type	: Drive end : 6206 ZZ Non drive end : 6205 ZZ	Foundation loads		
Sealing	: Without Bearing Seal Without Bearing Seal	Max. traction	: 77 kgf	
		Max. compression	: 113 kgf	
Lubrication interval	: -			
Lubricant amount	: -			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 19.2A SF 1.00 SFA 19.2A				
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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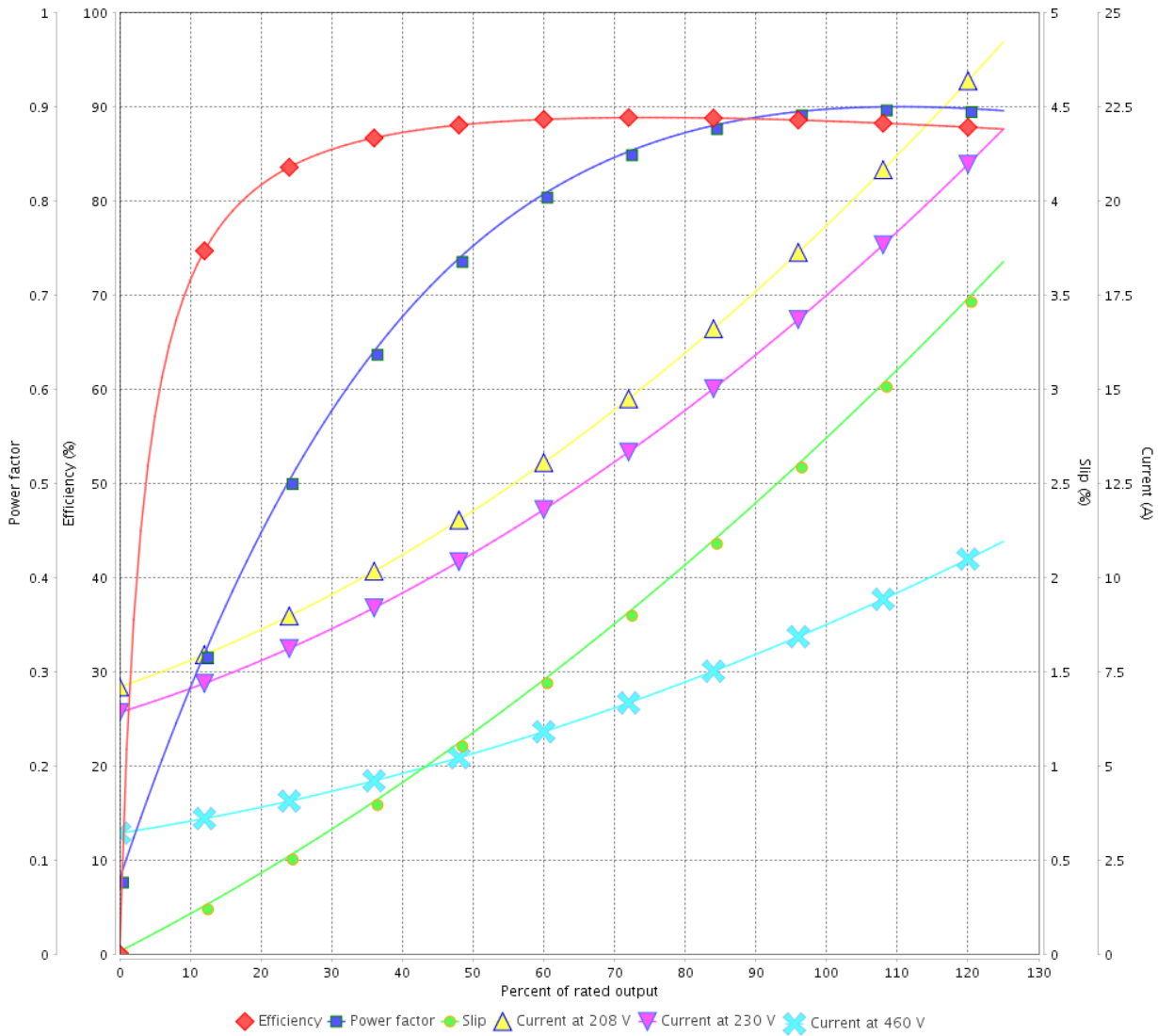
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Performance : 230/460 V 60 Hz 2P

Rated current : 17.3/8.67 A
 LRC : 7.4
 Rated torque : 1.56 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 290 %
 Rated speed : 3500 rpm

Moment of inertia (J) : 0.0077 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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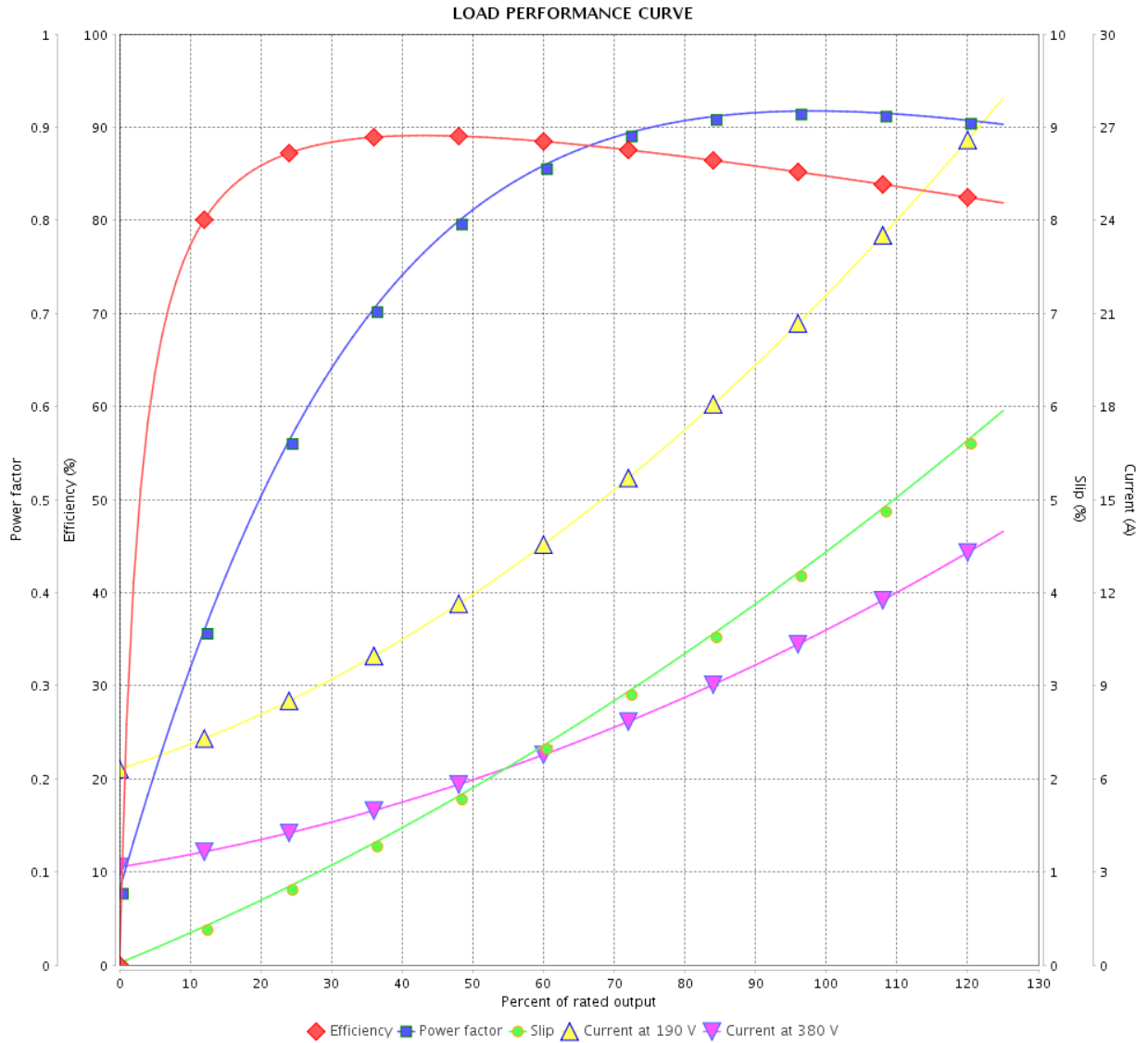
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Three Phase Induction Motor - Squirrel Cage



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Performance : 190/380 V 50 Hz 2P

Rated current : 21.4/10.7 A
 LRC : 5.6
 Rated torque : 1.90 kgfm
 Locked rotor torque : 150 %
 Breakdown torque : 210 %
 Rated speed : 2865 rpm

Moment of inertia (J) : 0.0077 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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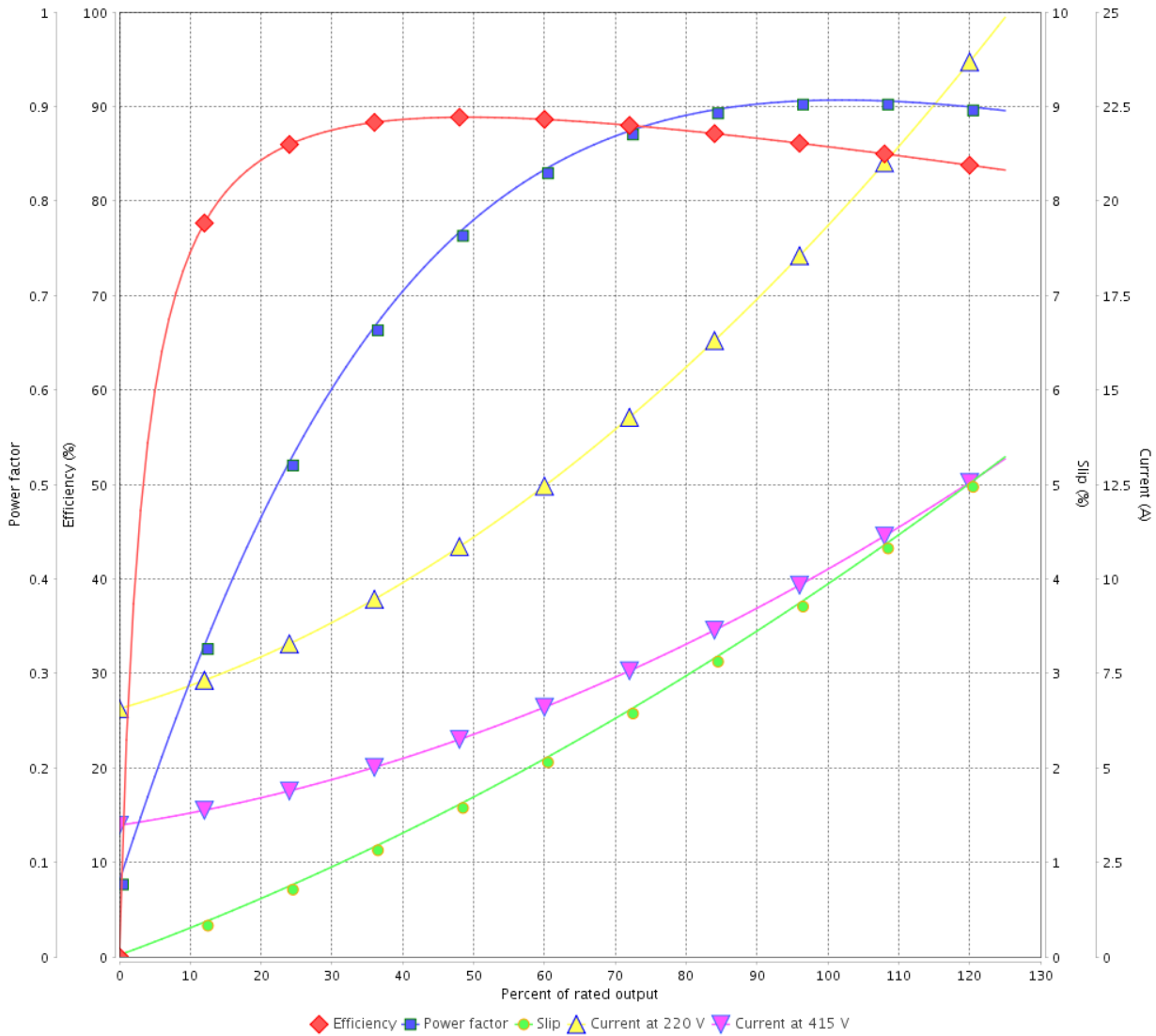
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 220/415 V 50 Hz 2P

Rated current : 19.2/10.2 A
 LRC : 6.3
 Rated torque : 1.89 kgfm
 Locked rotor torque : 170 %
 Breakdown torque : 240 %
 Rated speed : 2880 rpm

Moment of inertia (J) : 0.0077 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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