

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12707482	
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	: 81.4 kg	
Design	: B	Moment of inertia (J)	: 0.0386 kgm ²	
Output [HP]	25	25	25	
Poles	2	2	2	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	58.2/29.1	70.6/35.3	64.1/34.0	
L. R. Amperes [A]	367/183	374/187	378/201	
LRC [A]	6.3x(Code G)	5.3x(Code E)	5.9x(Code F)	
No load current [A]	22.8/11.4	22.3/11.2	24.0/12.7	
Rated speed [RPM]	3530	2905	2910	
Slip [%]	1.94	3.17	3.00	
Rated torque [kgfm]	5.14	6.25	6.23	
Locked rotor torque [%]	180	150	170	
Breakdown torque [%]	290	220	240	
Service factor	1.15	1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	16s (cold) 9s (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%	90.8	92.6	91.9
	50%	91.0	91.1	90.9
	75%	91.7	90.3	90.6
	100%	91.7	88.5	89.3
Power Factor	25%	0.46	0.53	0.48
	50%	0.73	0.80	0.75
	75%	0.83	0.87	0.85
	100%	0.87	0.90	0.88
Bearing type	: Drive end 6309 Z C3 Non drive end 6208 Z C3	Foundation loads		
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction	: 194 kgf	
Lubrication interval	: 20000 h 20000 h	Max. compression	: 276 kgf	
Lubricant amount	: 13 g 8 g			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 64.3A SF 1.00 SFA 64.3A				
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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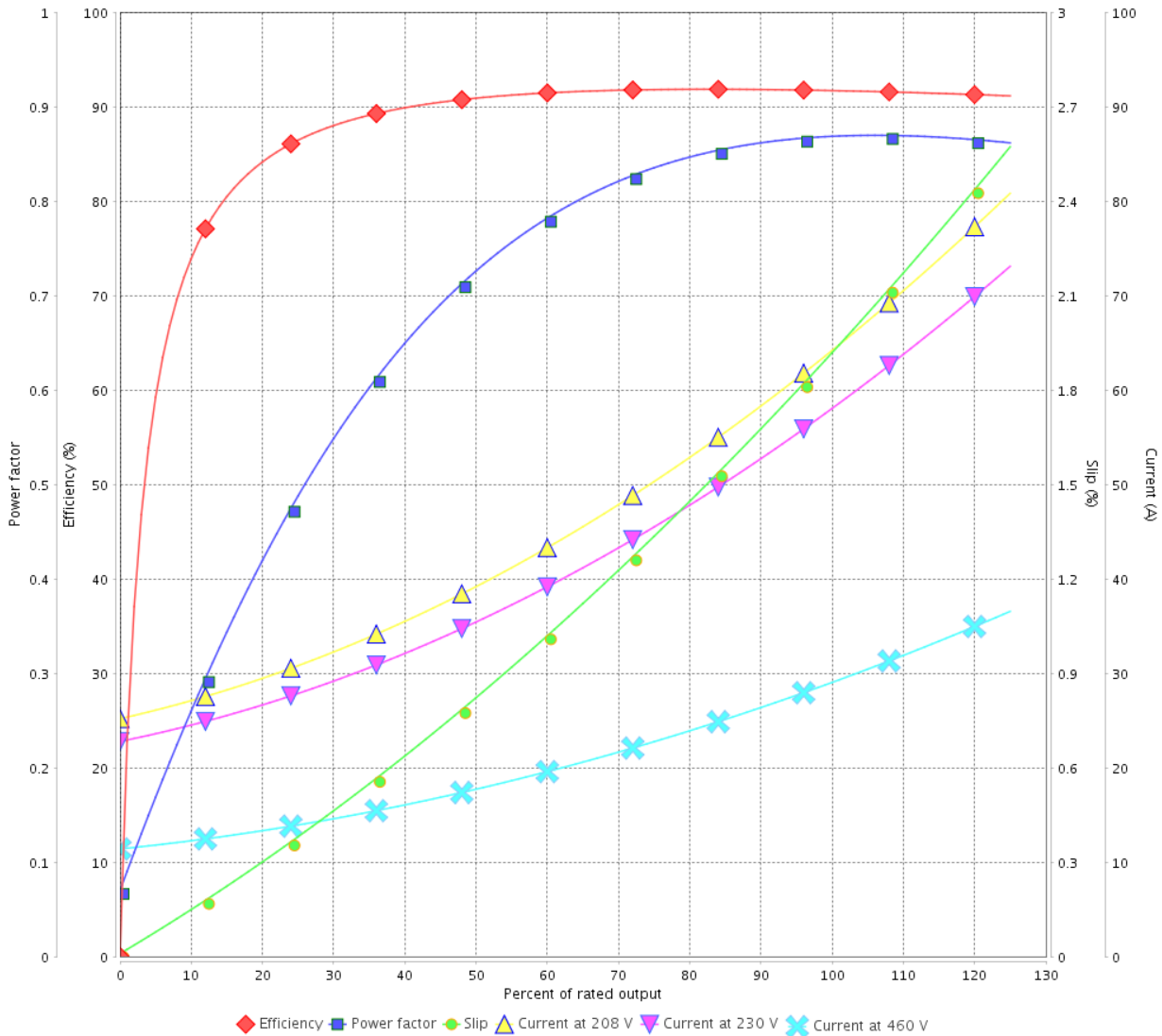
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Performance : 230/460 V 60 Hz 2P

Rated current : 58.2/29.1 A
 LRC : 6.3
 Rated torque : 5.14 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 290 %
 Rated speed : 3530 rpm

Moment of inertia (J) : 0.0386 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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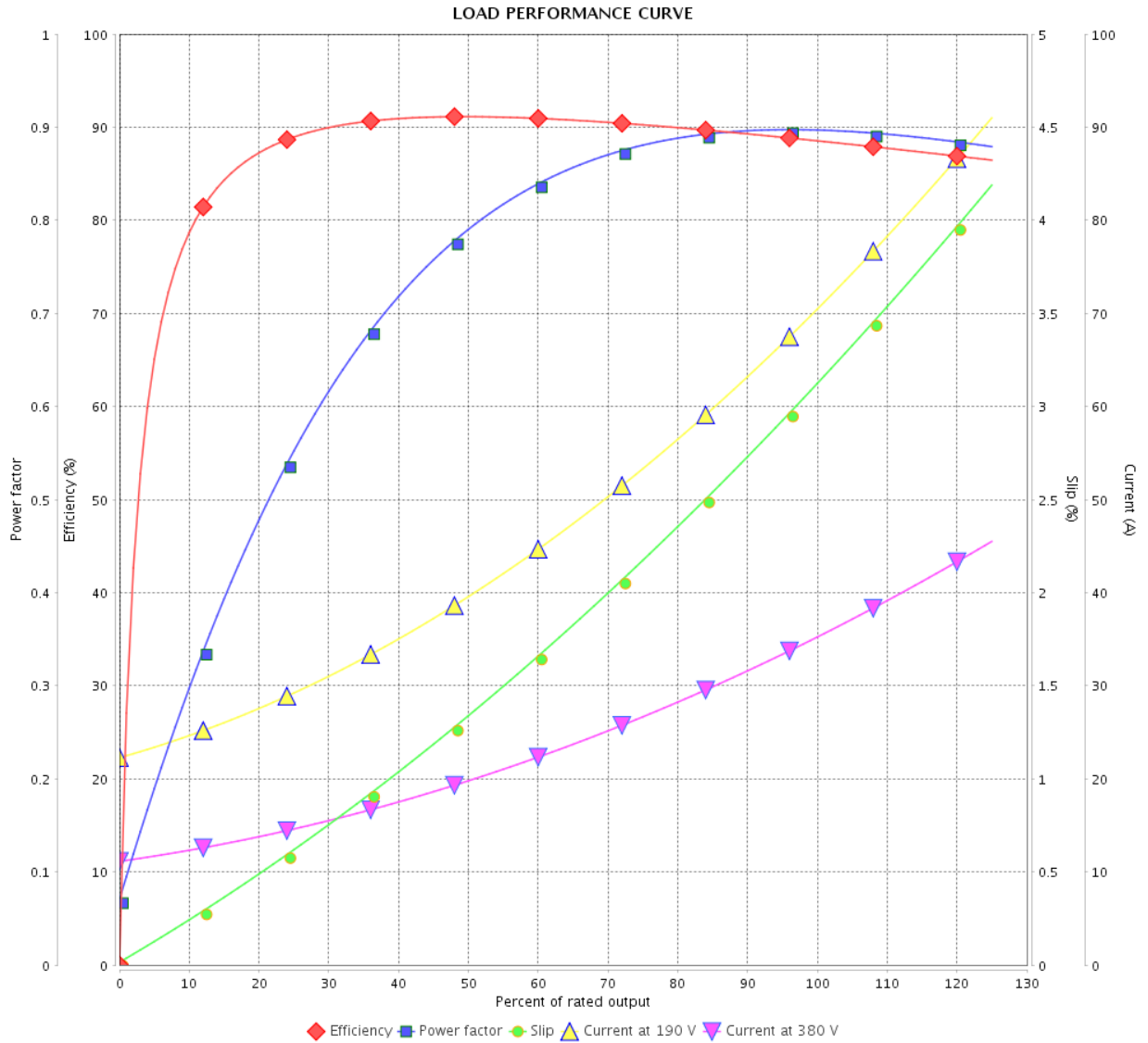
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Three Phase Induction Motor - Squirrel Cage



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Performance : 190/380 V 50 Hz 2P

Rated current : 70.6/35.3 A
 LRC : 5.3
 Rated torque : 6.25 kgfm
 Locked rotor torque : 150 %
 Breakdown torque : 220 %
 Rated speed : 2905 rpm

Moment of inertia (J) : 0.0386 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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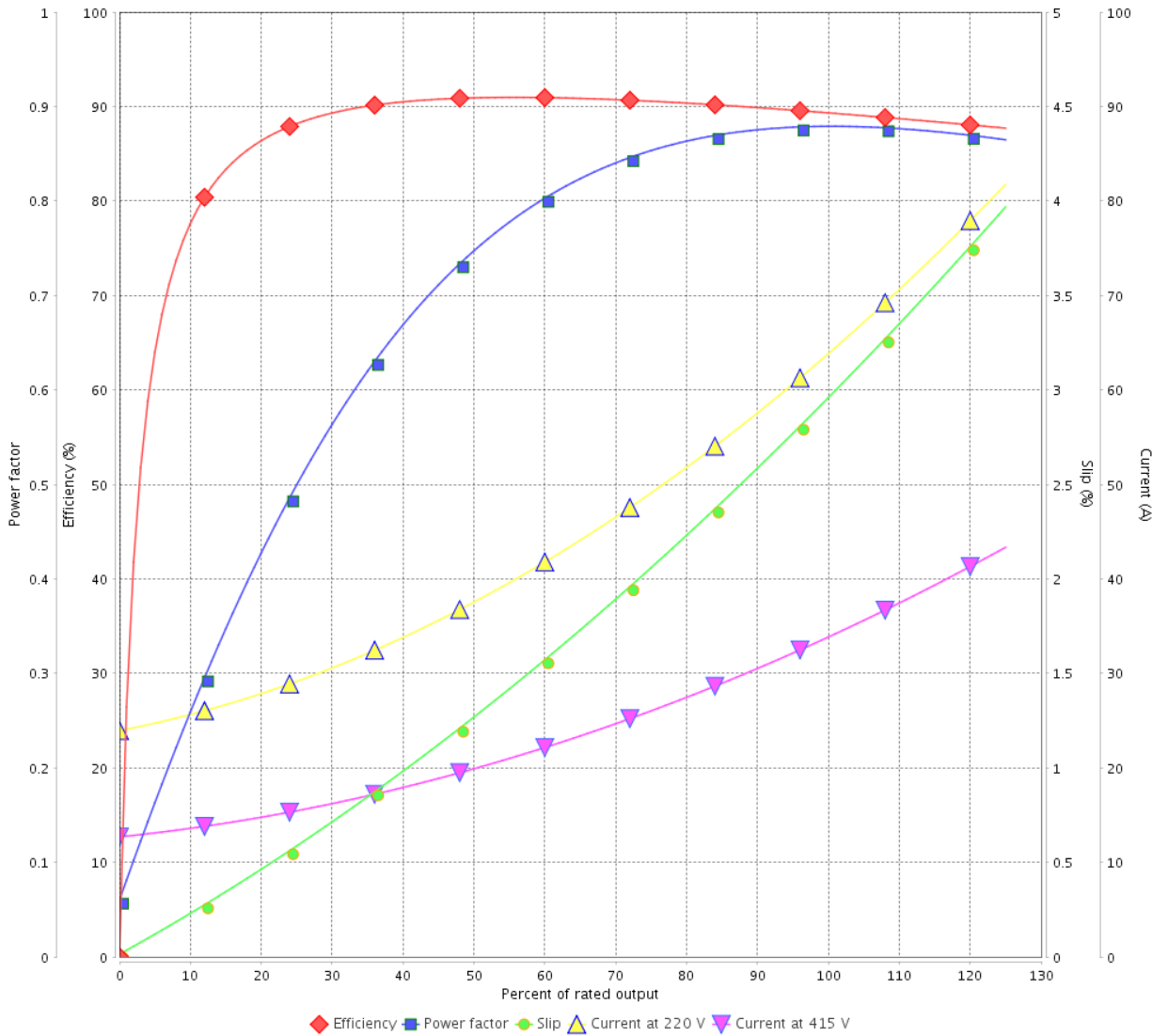
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Performance : 220/415 V 50 Hz 2P

Rated current : 64.1/34.0 A
 LRC : 5.9
 Rated torque : 6.23 kgfm
 Locked rotor torque : 170 %
 Breakdown torque : 240 %
 Rated speed : 2910 rpm

Moment of inertia (J) : 0.0386 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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