

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12630776	
Frame	: 182/4T	Cooling method	: IC411 - TEFC	
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	: 35.0 kg	
Protection degree	: IP55	Moment of inertia (J)	: 0.0130 kgm ²	
Design	: B			
Output [HP]	5	5	5	
Poles	4	4	4	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	13.0/6.49	15.8/7.88	14.3/7.59	
L. R. Amperes [A]	90.9/45.4	91.4/45.7	91.6/48.6	
LRC [A]	7.0x(Code J)	5.8x(Code G)	6.4x(Code H)	
No load current [A]	6.89/3.44	6.74/3.37	7.10/3.77	
Rated speed [RPM]	1750	1425	1435	
Slip [%]	2.78	5.00	4.33	
Rated torque [kgfm]	2.07	2.55	2.53	
Locked rotor torque [%]	220	170	200	
Breakdown torque [%]	300	229	260	
Service factor	1.15	1.00	1.00	
Temperature rise	80 K	105 K	105 K	
Locked rotor time	28s (cold) 16s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level ²	56.0 dB(A)	53.0 dB(A)	53.0 dB(A)	
Efficiency (%)	25%	88.2	88.2	
	50%	88.5	87.2	
	75%	89.5	87.3	
	100%	89.5	85.8	
Power Factor	25%	0.35	0.37	
	50%	0.60	0.63	
	75%	0.73	0.76	
	100%	0.80	0.82	
Bearing type	: <u>Drive end</u> 6206 ZZ <u>Non drive end</u> 6205 ZZ	Foundation loads		
Sealing	: V'Ring Without Bearing Seal	Max. traction	: 120 kgf	
		Max. compression	: 155 kgf	
Lubrication interval	: -			
Lubricant amount	: -			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 14.4A SF 1.00 SFA 14.4A				
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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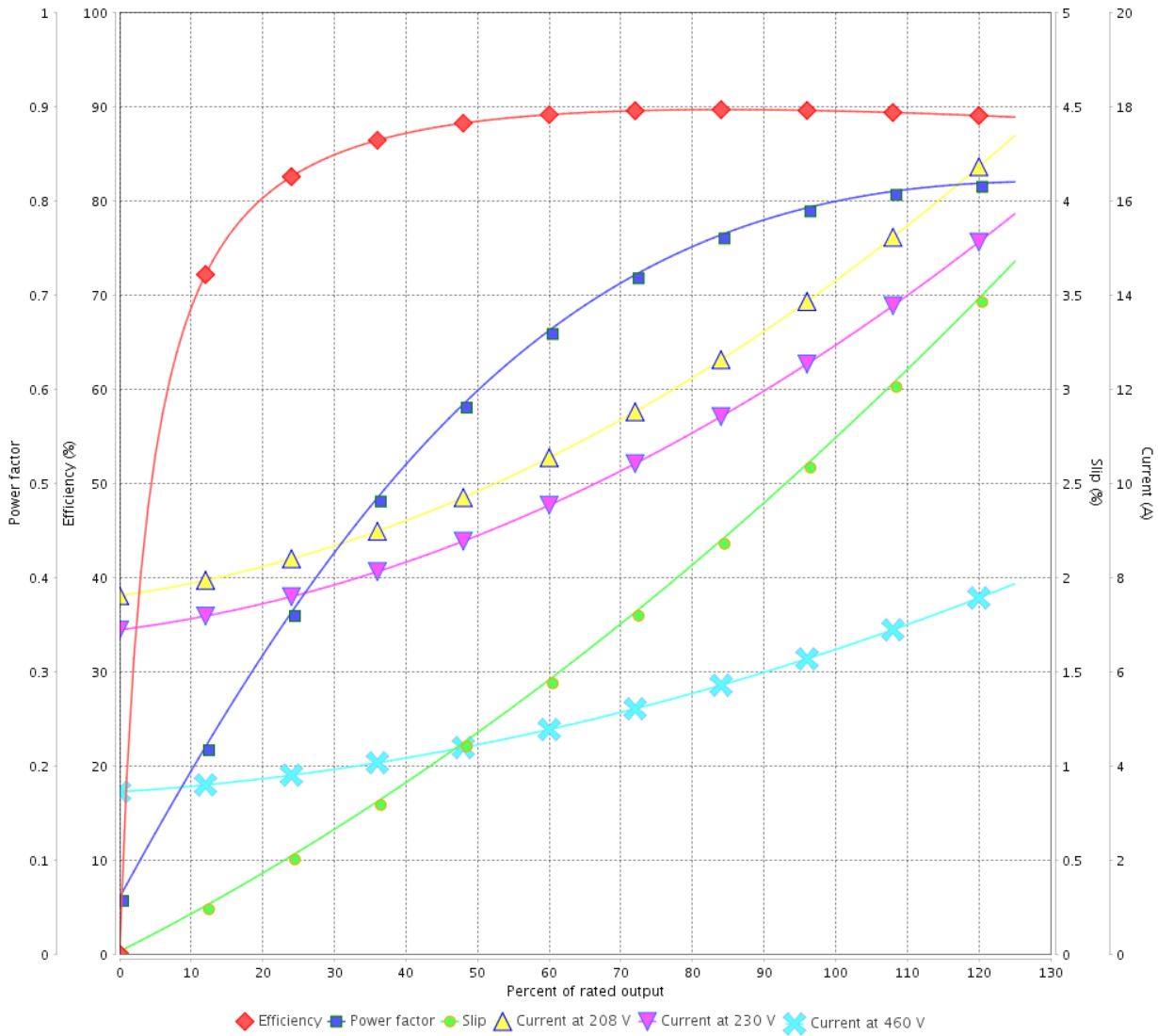
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Performance : 230/460 V 60 Hz 4P

Rated current : 13.0/6.49 A
 LRC : 7.0
 Rated torque : 2.07 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 300 %
 Rated speed : 1750 rpm

Moment of inertia (J) : 0.0130 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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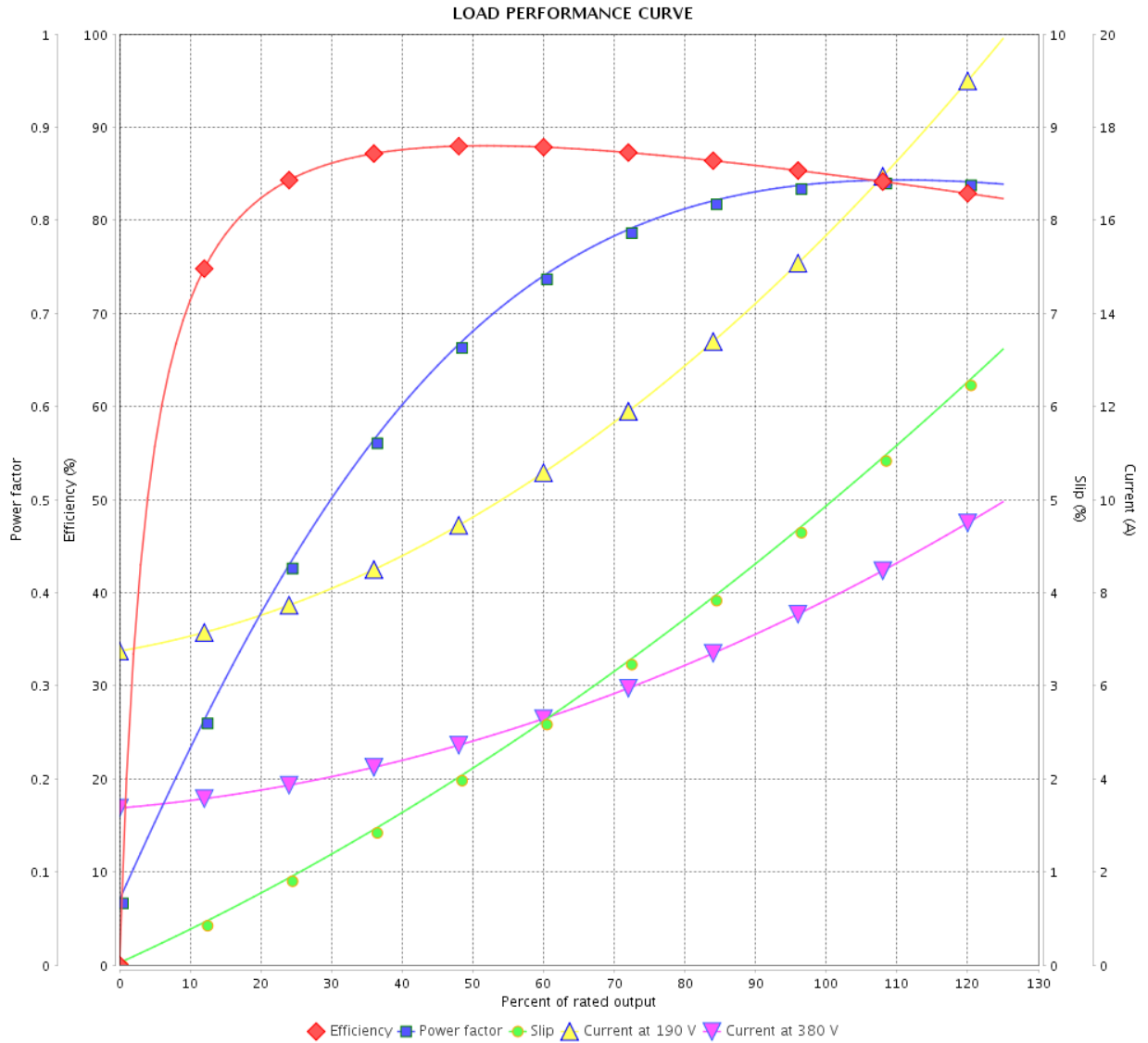
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Three Phase Induction Motor - Squirrel Cage



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Performance : 190/380 V 50 Hz 4P

Rated current : 15.8/7.88 A
 LRC : 5.8
 Rated torque : 2.55 kgfm
 Locked rotor torque : 170 %
 Breakdown torque : 229 %
 Rated speed : 1425 rpm

Moment of inertia (J) : 0.0130 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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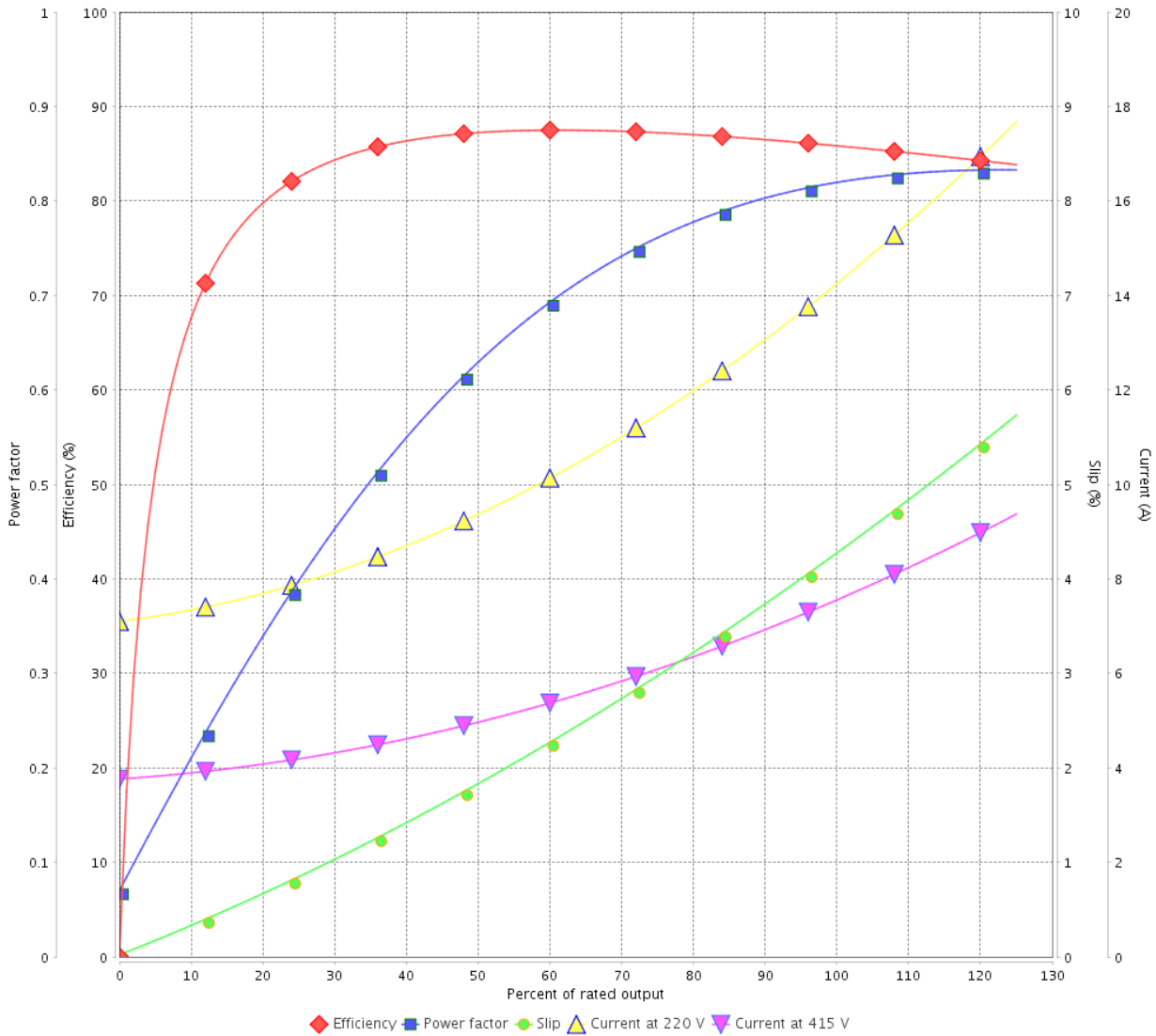
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Performance : 220/415 V 50 Hz 4P

Rated current : 14.3/7.59 A
 LRC : 6.4
 Rated torque : 2.53 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 260 %
 Rated speed : 1435 rpm

Moment of inertia (J) : 0.0130 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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