

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line		: NEMA Premium Efficiency Three-Phase	Product code :	12751142	
Frame	: 182/4T	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	: 25.6 kg		
Design	: B	Moment of inertia (J)	: 0.0058 kgm ²		
Output [HP]	5	5	5		
Poles	2	2	2		
Frequency [Hz]	60	50	50		
Rated voltage [V]	230/460	190/380	220/415		
Rated current [A]	12.2/6.10	14.7/7.37	13.2/7.01		
L. R. Amperes [A]	92.7/46.4	85.5/42.7	86.0/45.6		
LRC [A]	7.6x(Code J)	5.8x(Code G)	6.5x(Code H)		
No load current [A]	5.15/2.58	5.05/2.53	5.33/2.83		
Rated speed [RPM]	3510	2885	2900		
Slip [%]	2.50	3.83	3.33		
Rated torque [kgfm]	1.03	1.26	1.25		
Locked rotor torque [%]	190	150	170		
Breakdown torque [%]	300	220	250		
Service factor	1.15	1.00	1.00		
Temperature rise	80 K	105 K	80 K		
Locked rotor time	21s (cold) 12s (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%	85.2	88.3	87.1	
	50%	85.5	86.5	86.0	
	75%	86.5	86.0	86.2	
	100%	86.5	83.8	84.7	
Power Factor	25%	0.45	0.51	0.47	
	50%	0.73	0.79	0.75	
	75%	0.83	0.88	0.85	
	100%	0.88	0.91	0.90	
Bearing type	: Drive end 6206 ZZ Non drive end 6205 ZZ	Foundation loads			
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction	: 52 kgf		
		Max. compression	: 78 kgf		
Lubrication interval	: - -				
Lubricant amount	: - -				
Lubricant type	: Mobil Polyrex EM				
Notes USABLE @208V 13.5A SF 1.00 SFA 13.5A					
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.		
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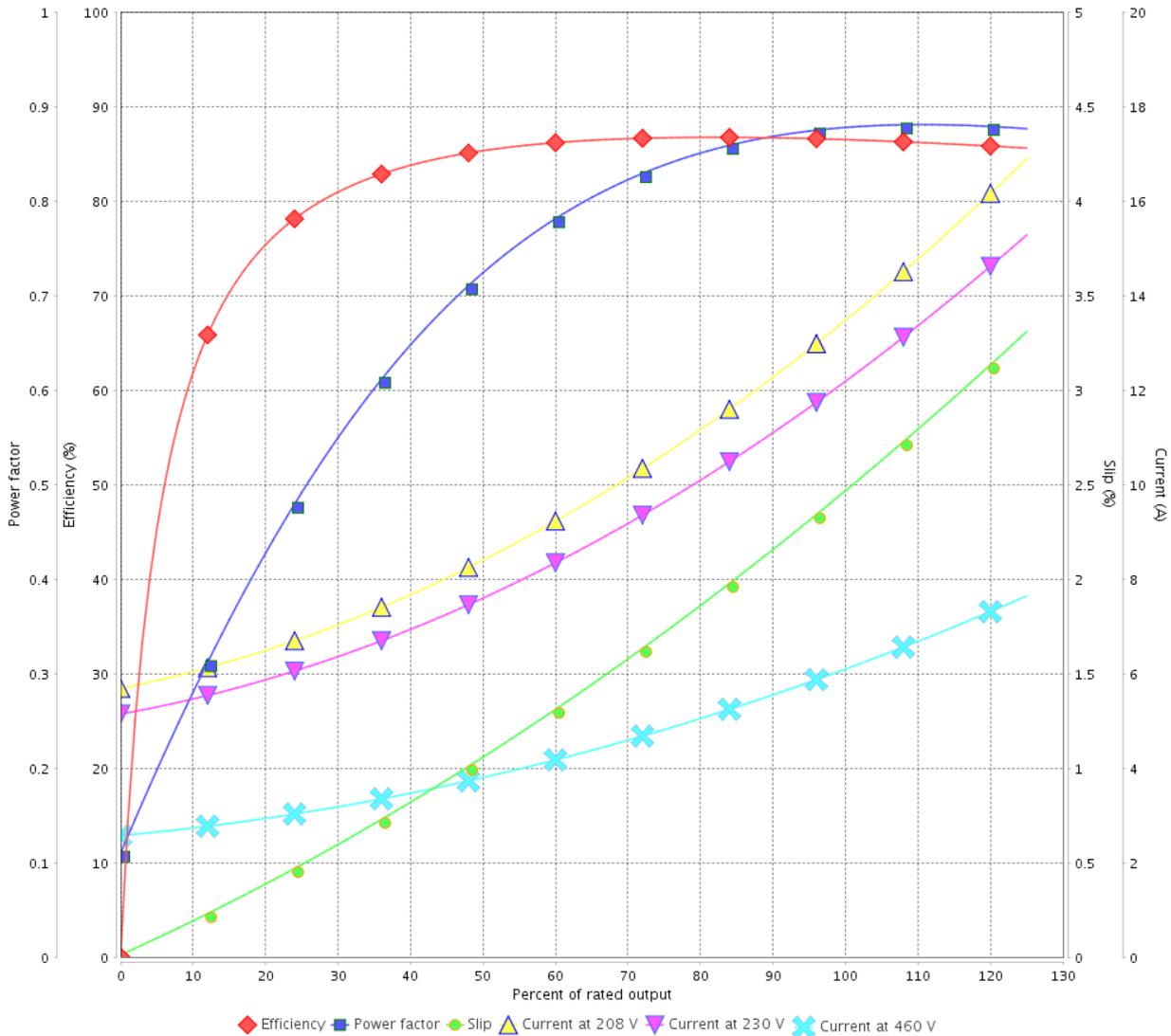
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Performance : 230/460 V 60 Hz 2P

Rated current : 12.2/6.10 A
 LRC : 7.6
 Rated torque : 1.03 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 300 %
 Rated speed : 3510 rpm

Moment of inertia (J) : 0.0058 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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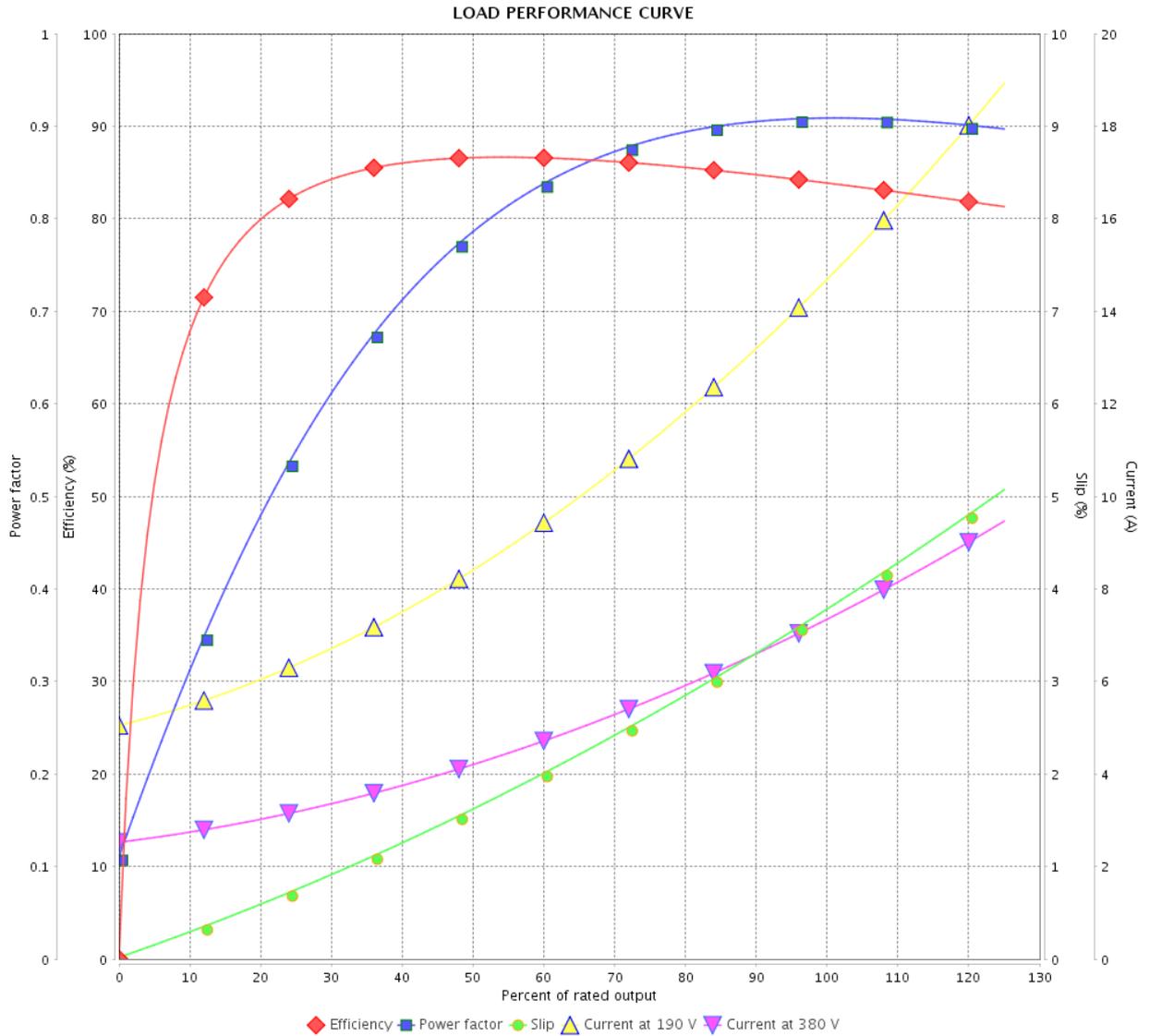
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Performance : 190/380 V 50 Hz 2P

Rated current : 14.7/7.37 A
 LRC : 5.8
 Rated torque : 1.26 kgfm
 Locked rotor torque : 150 %
 Breakdown torque : 220 %
 Rated speed : 2885 rpm

Moment of inertia (J) : 0.0058 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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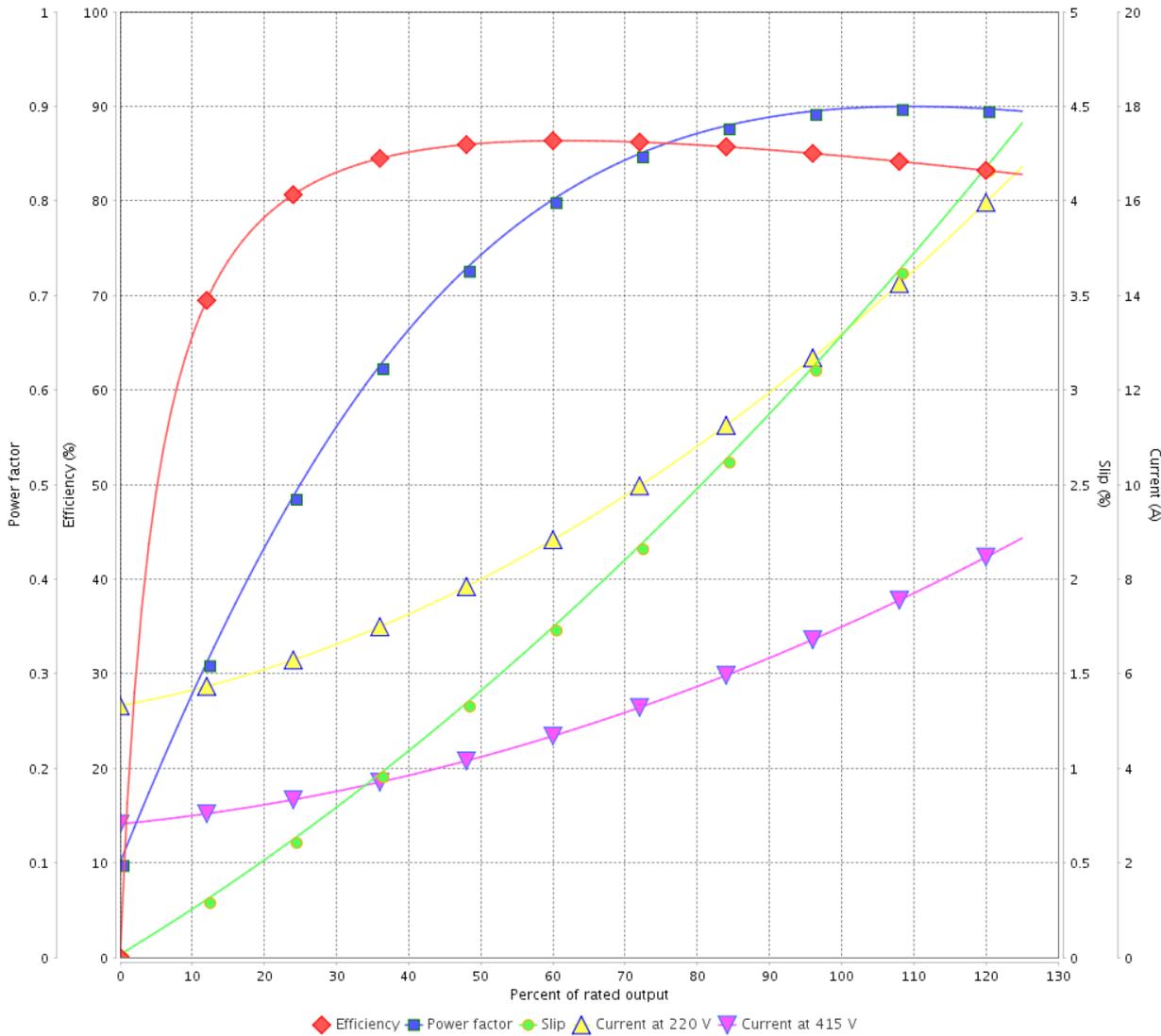
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Performance : 220/415 V 50 Hz 2P

Rated current : 13.2/7.01 A
 LRC : 6.5
 Rated torque : 1.25 kgfm
 Locked rotor torque : 170 %
 Breakdown torque : 250 %
 Rated speed : 2900 rpm

Moment of inertia (J) : 0.0058 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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