

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line		: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	12675351	
Frame	: 182/4TC	Cooling method	: IC411 - TEFC		
Insulation class	: F	Mounting	: F-1		
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)		
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 28.4 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0066 kgm <sup>2</sup>		
Design	: B				
Output [HP]	3	2	2		
Poles	2	2	2		
Frequency [Hz]	60	50	50		
Rated voltage [V]	230/460	190-220/380	415		
Rated current [A]	7.52/3.76	6.56-5.67/3.28	3.19		
L. R. Amperes [A]	66.2/33.1	60.4-52.1/30.2	33.2		
LRC [A]	8.8x(Code K)	9.2x(Code L)	10.4x(Code N)		
No load current [A]	3.40/1.70	3.40-2.94/1.70	2.00		
Rated speed [RPM]	3515	2920	2940		
Slip [%]	2.36	2.67	2.00		
Rated torque [kgfm]	0.619	0.497	0.494		
Locked rotor torque [%]	240	300	350		
Breakdown torque [%]	350	400	480		
Service factor	1.15	1.15	1.15		
Temperature rise	80 K	80 K	80 K		
Locked rotor time	45s (cold) 25s (hot)	55s (cold) 31s (hot)	46s (cold) 26s (hot)		
Noise level <sup>2</sup>	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)		
Efficiency (%)	25%				
	50%	84.0	83.3	81.6	
	75%	86.5	85.0	85.1	
	100%	86.5	85.9	86.2	
Power Factor	25%				
	50%	0.70	0.62	0.56	
	75%	0.80	0.73	0.67	
	100%	0.85	0.81	0.76	
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	14.2	14.9	14.5	
	P2 (0,5;1,0)	10.4	11.0	10.7	
	P3 (0,25;1,0)	10.2	10.8	10.5	
	P4 (0,9;0,5)	8.6	9.0	8.8	
	P5 (0,5;0,5)	4.8	5.1	4.9	
	P6 (0,5;0,25)	3.5	3.7	3.6	
	P7 (0,25;0,25)	2.2	2.3	2.3	
Bearing type	: Drive end : 6206 ZZ	Non drive end : 6205 ZZ	Foundation loads		
Sealing	: V'Ring	Without Bearing Seal	Max. traction	: 35 kgf	
Lubrication interval	: -	-	Max. compression	: 63 kgf	
Lubricant amount	: -	-			
Lubricant type	: Mobil Polyrex EM				
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).			These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.		
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Notes  
USABLE @208V 8.12A SF 1.00 SFA 8.12A

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# LOAD PERFORMANCE CURVE

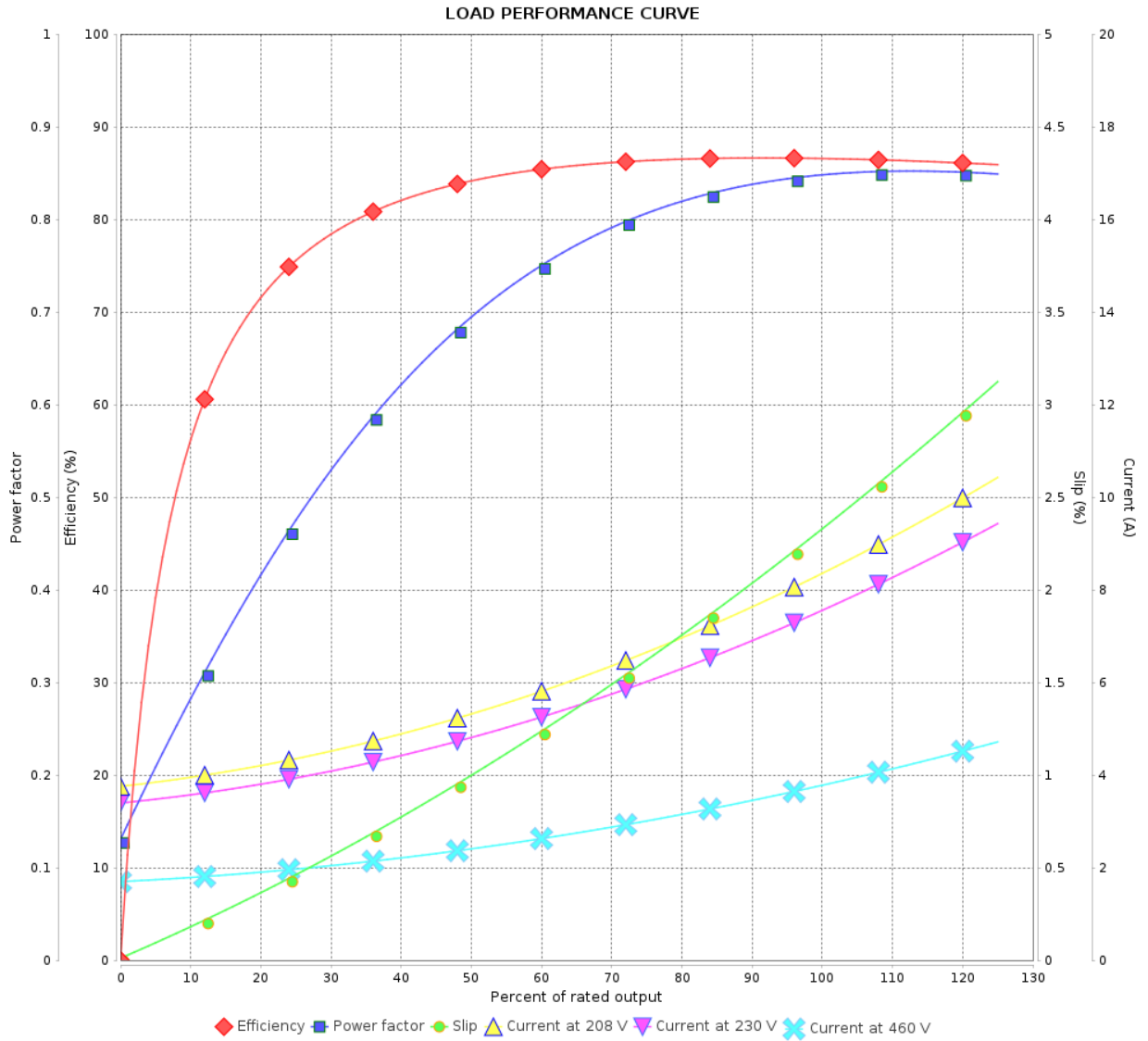
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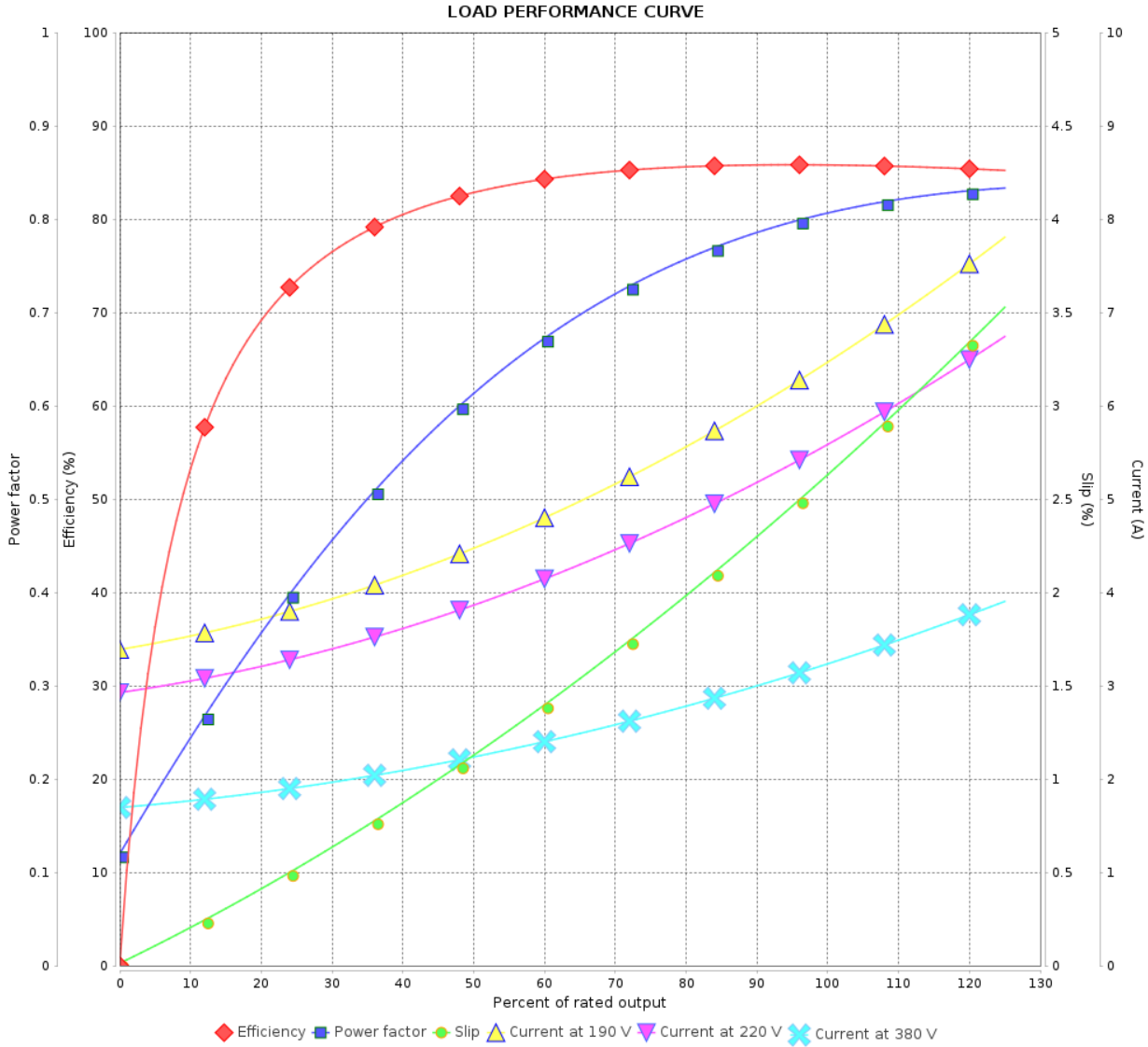
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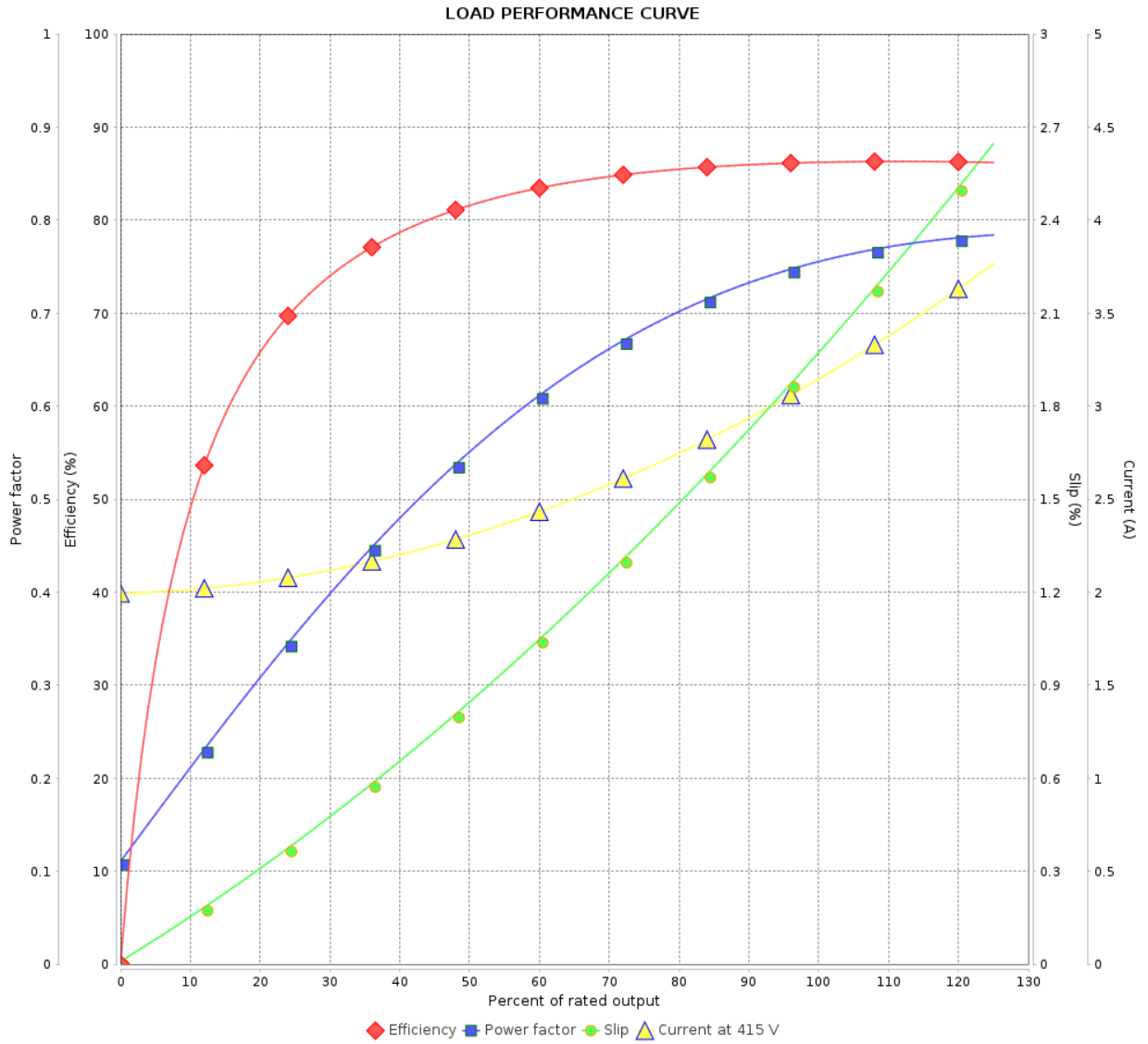
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