

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line		: ODP High Efficiency Three-Phase	Product code :	13659279
Frame	: 254TC	Cooling method	: IC01 - ODP	
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>	: 94.3 kg	
Protection degree	: IP23	Moment of inertia (J)	: 0.0338 kgm <sup>2</sup>	
Design	: B			
Output [HP]	20	20	20	20
Poles	2	2	2	2
Frequency [Hz]	60	50	50	50
Rated voltage [V]	230/460	380	400	415
Rated current [A]	48.6/24.3	30.3	29.4	28.7
L. R. Amperes [A]	282/141	127	135	144
LRC [A]	5.8x(Code G)	4.2x(Code D)	4.6x(Code E)	5.0x(Code F)
No load current [A]	16.4/8.20	8.63	10.4	12.1
Rated speed [RPM]	3525	2890	2905	2920
Slip [%]	2.08	3.67	3.17	2.67
Rated torque [kgfm]	4.12	5.02	5.00	4.97
Locked rotor torque [%]	160	130	140	160
Breakdown torque [%]	250	200	210	229
Service factor	1.15	1.00	1.15	1.15
Temperature rise	105 K	105 K	105 K	105 K
Locked rotor time	18s (cold) 10s (hot)	18s (cold) 10s (hot)	16s (cold) 9s (hot)	16s (cold) 9s (hot)
Noise level <sup>2</sup>	66.0 dB(A)			
Efficiency (%)	25%			
	50%	89.5	86.5	87.5
	75%	90.2	87.5	87.5
	100%	90.2	86.5	87.5
Power Factor	25%			
	50%	0.74	0.77	0.66
	75%	0.83	0.85	0.78
	100%	0.86	0.87	0.83
Bearing type	: Drive end 6309 Z C3 Non drive end 6209 Z C3	Foundation loads		
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction	: 132 kgf	
Lubrication interval	: 20000 h 20000 h	Max. compression	: 227 kgf	
Lubricant amount	: 13 g 9 g			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 53.7A SF 1.15 SFA 61.8A				
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.		
Rev.	Changes Summary		Performed	Checked
Performed by			Page	Revision
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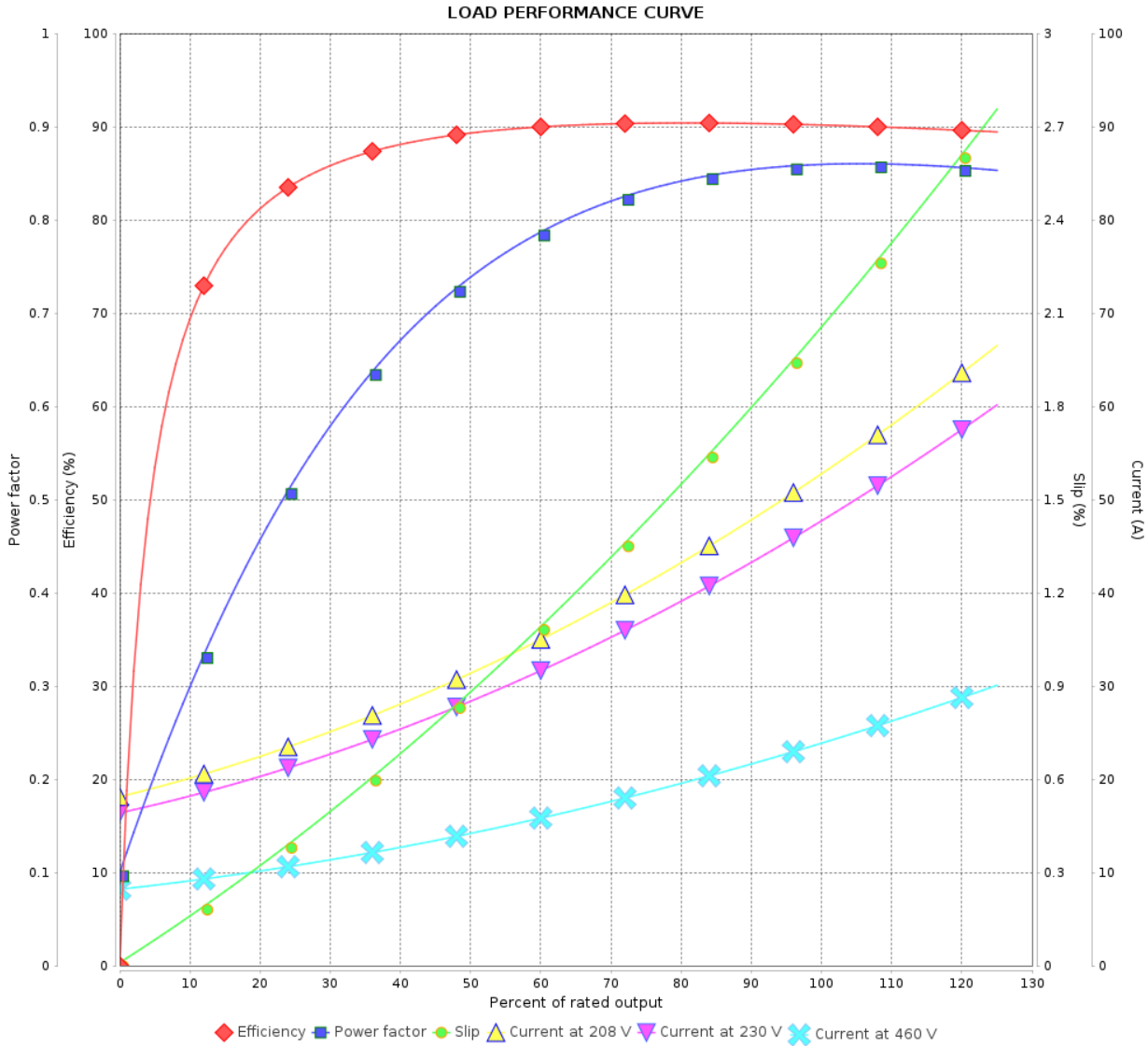
# LOAD PERFORMANCE CURVE

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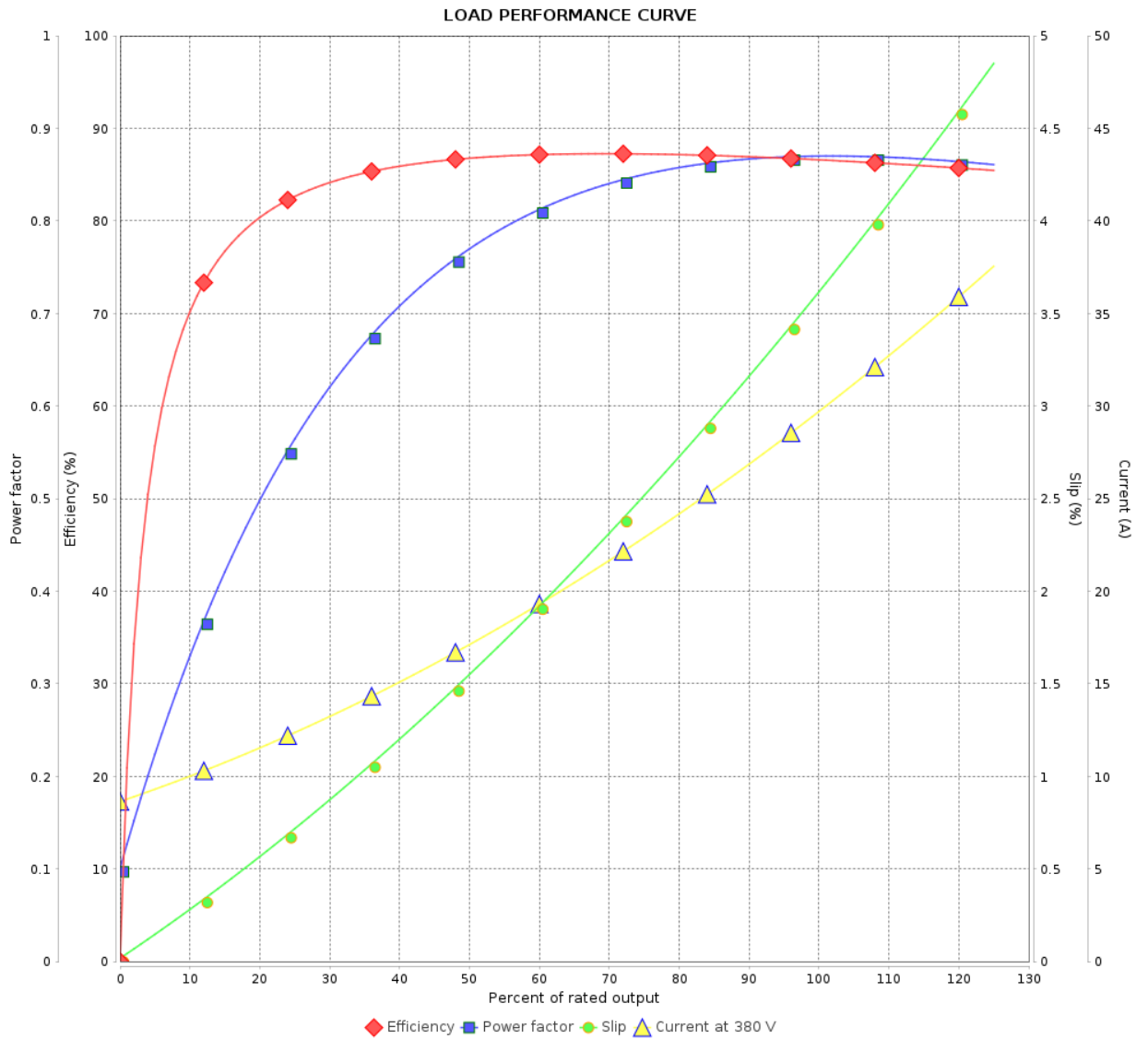
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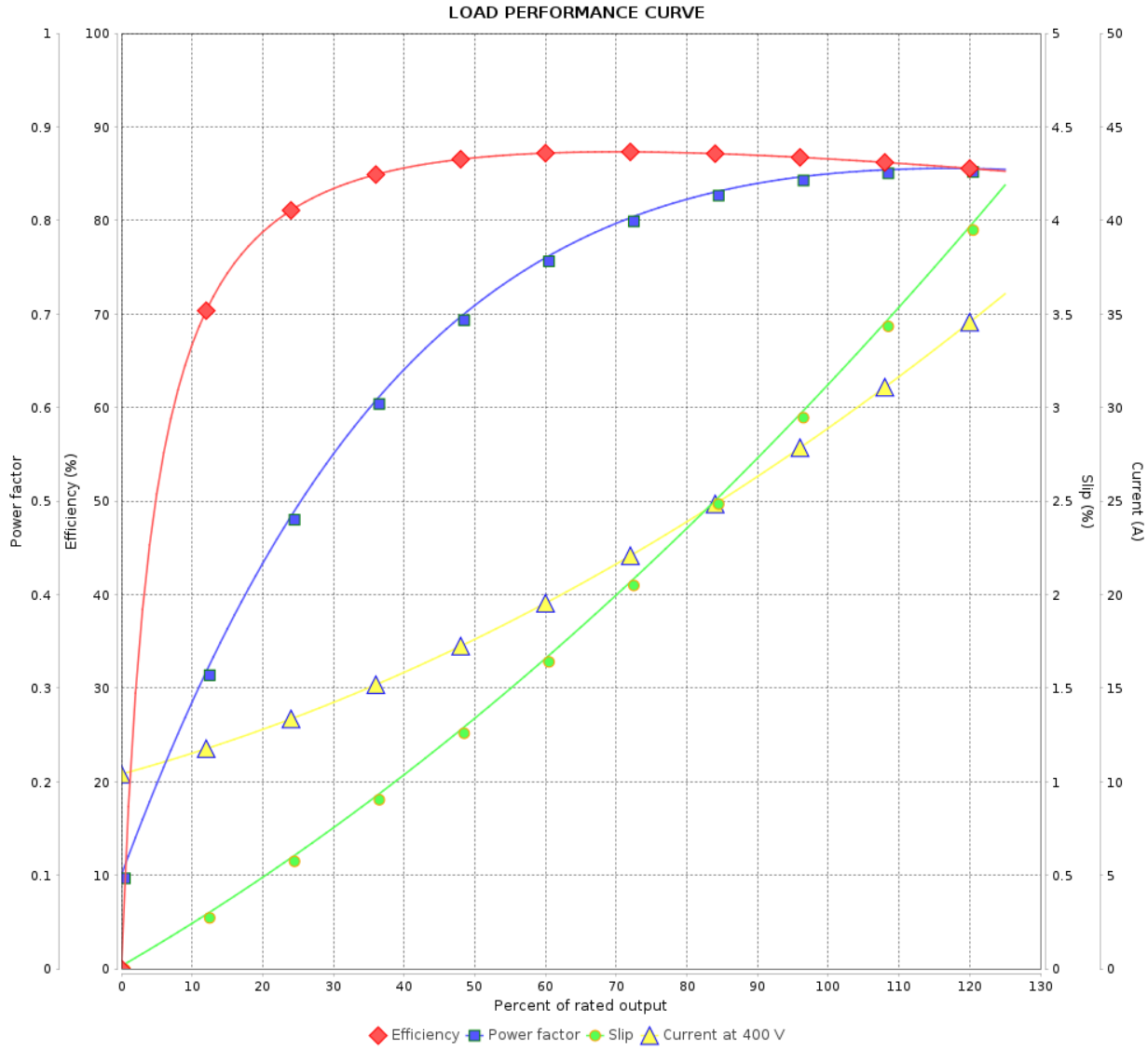
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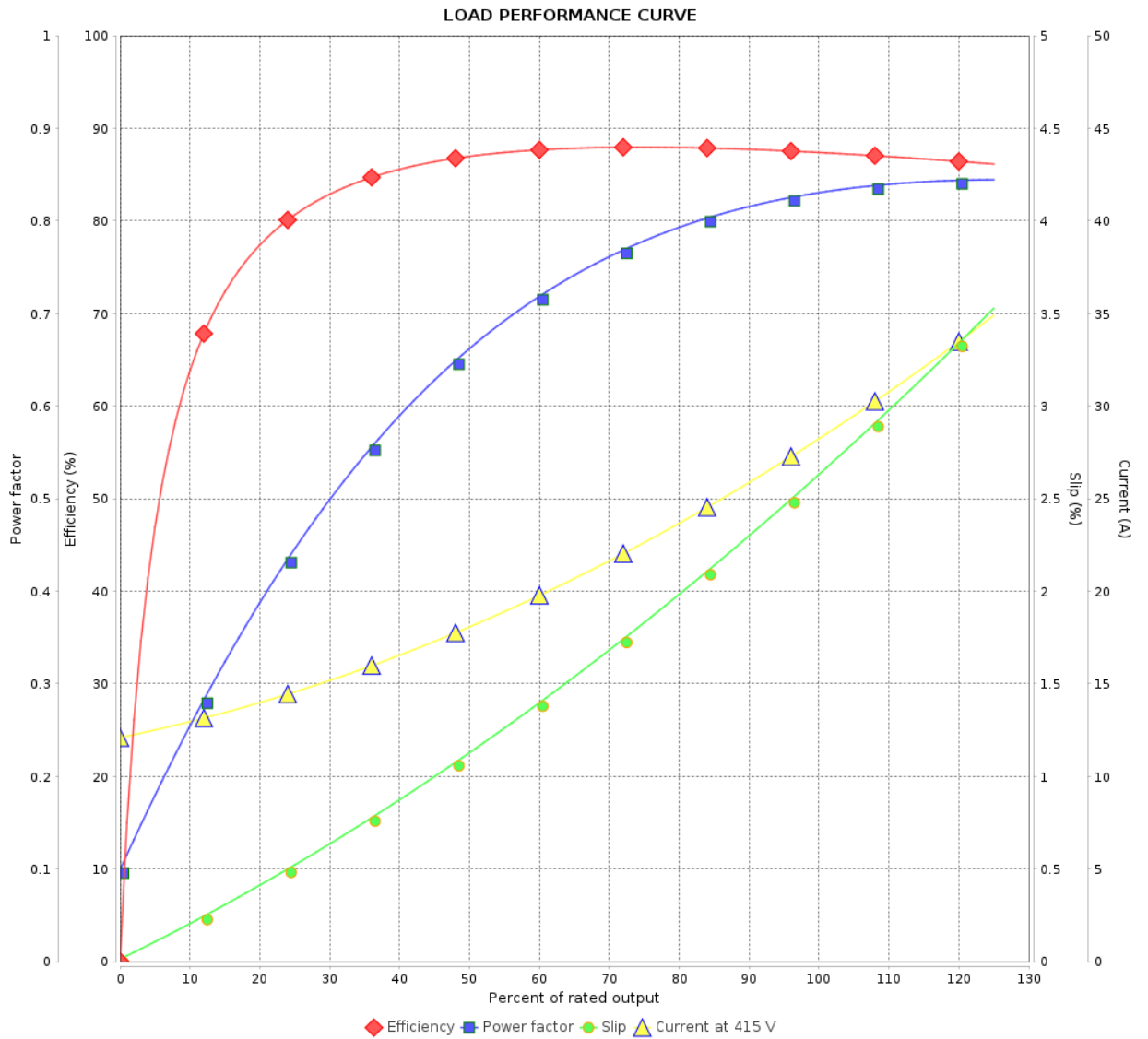
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