

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 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	: 94.3 kg
Protection degree	: IP23	Moment of inertia (J)	: 0.0338 kgm ²
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 ²	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	: Non drive end	Foundation loads
	: 6309 Z C3	: 6209 Z C3	
Sealing	: Without	: Without	Max. traction : 132 kgf
	: Bearing Seal	: Bearing Seal	Max. compression : 227 kgf
Lubrication interval	: 20000 h	: 20000 h	
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.

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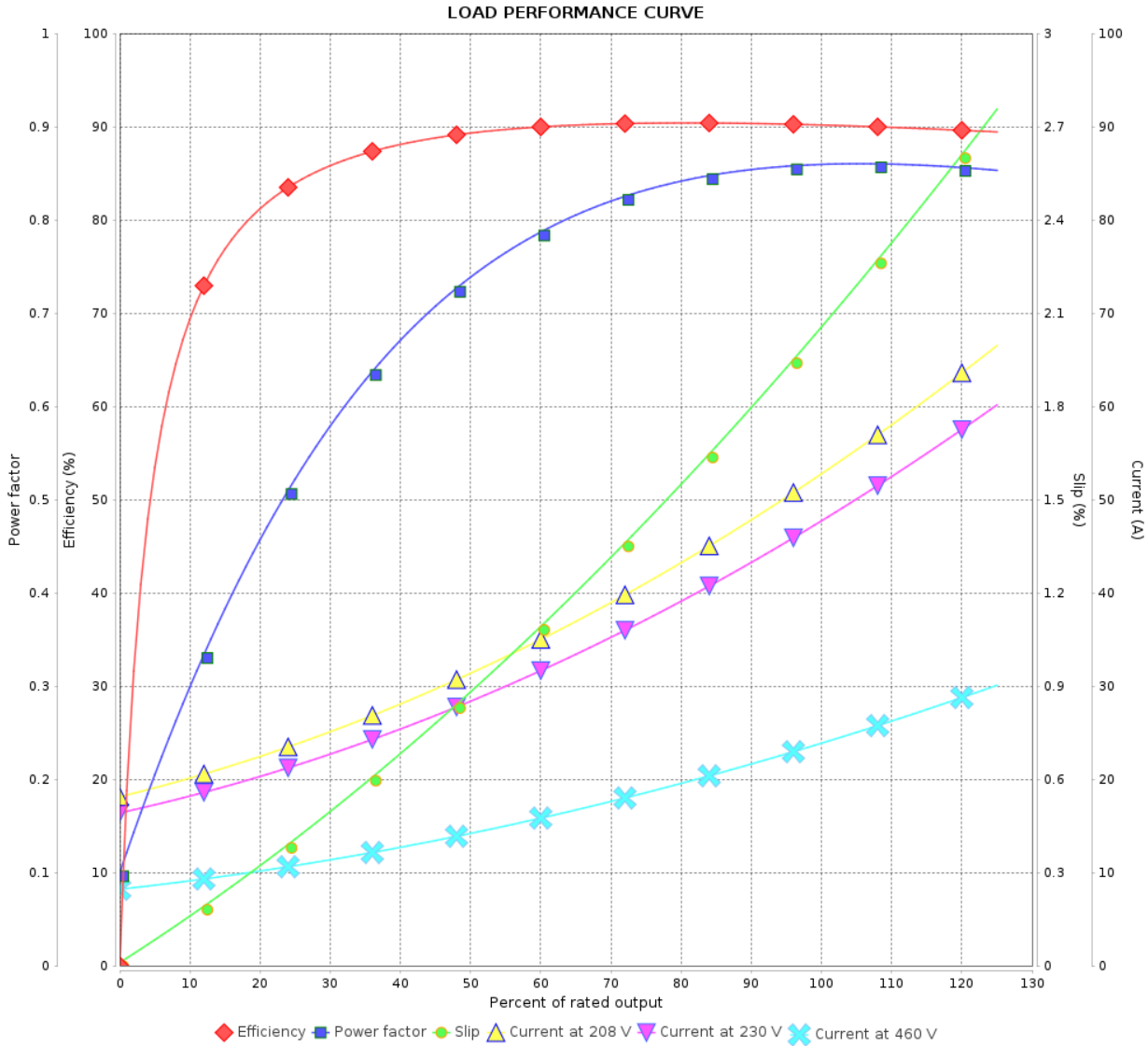
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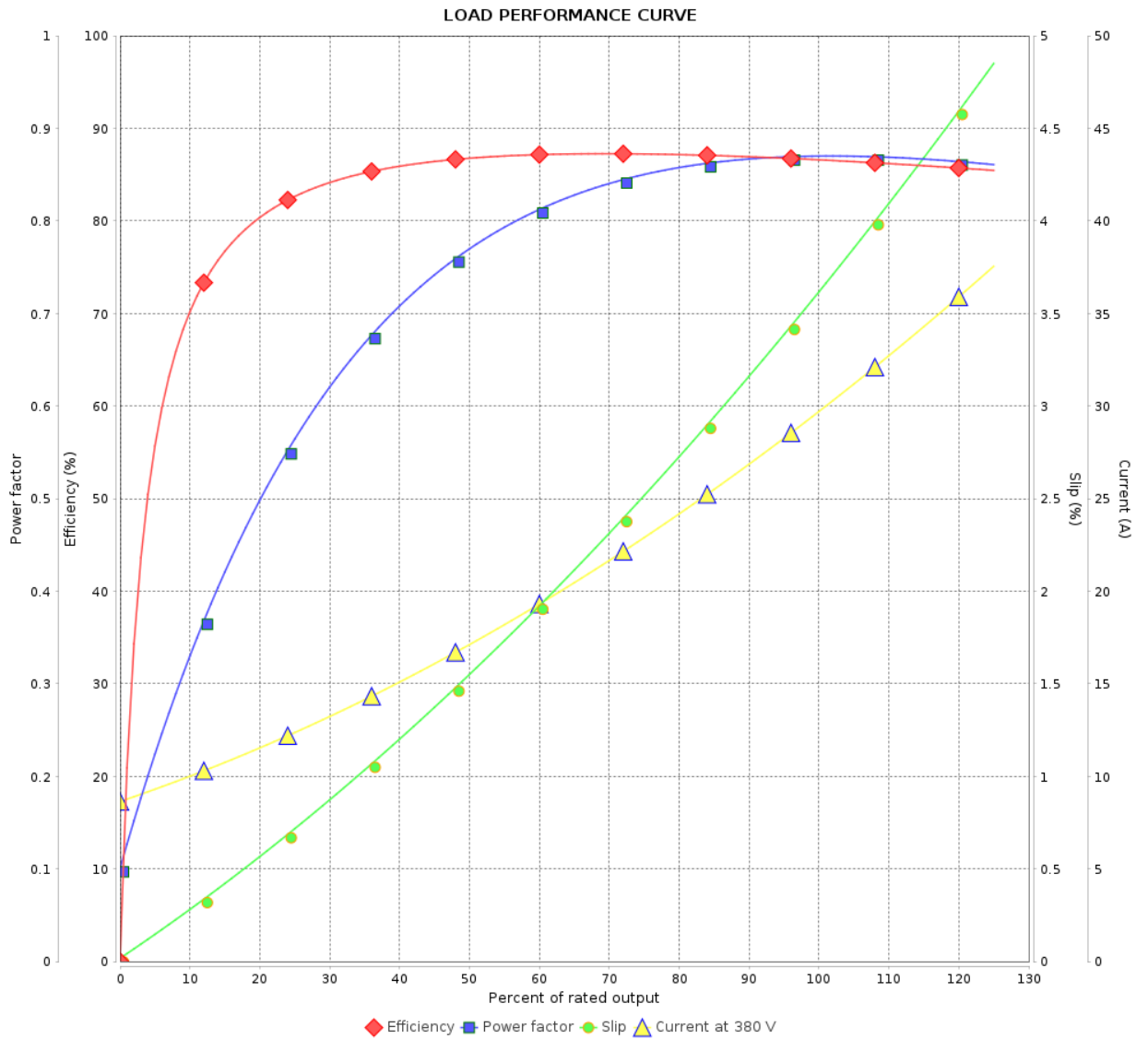
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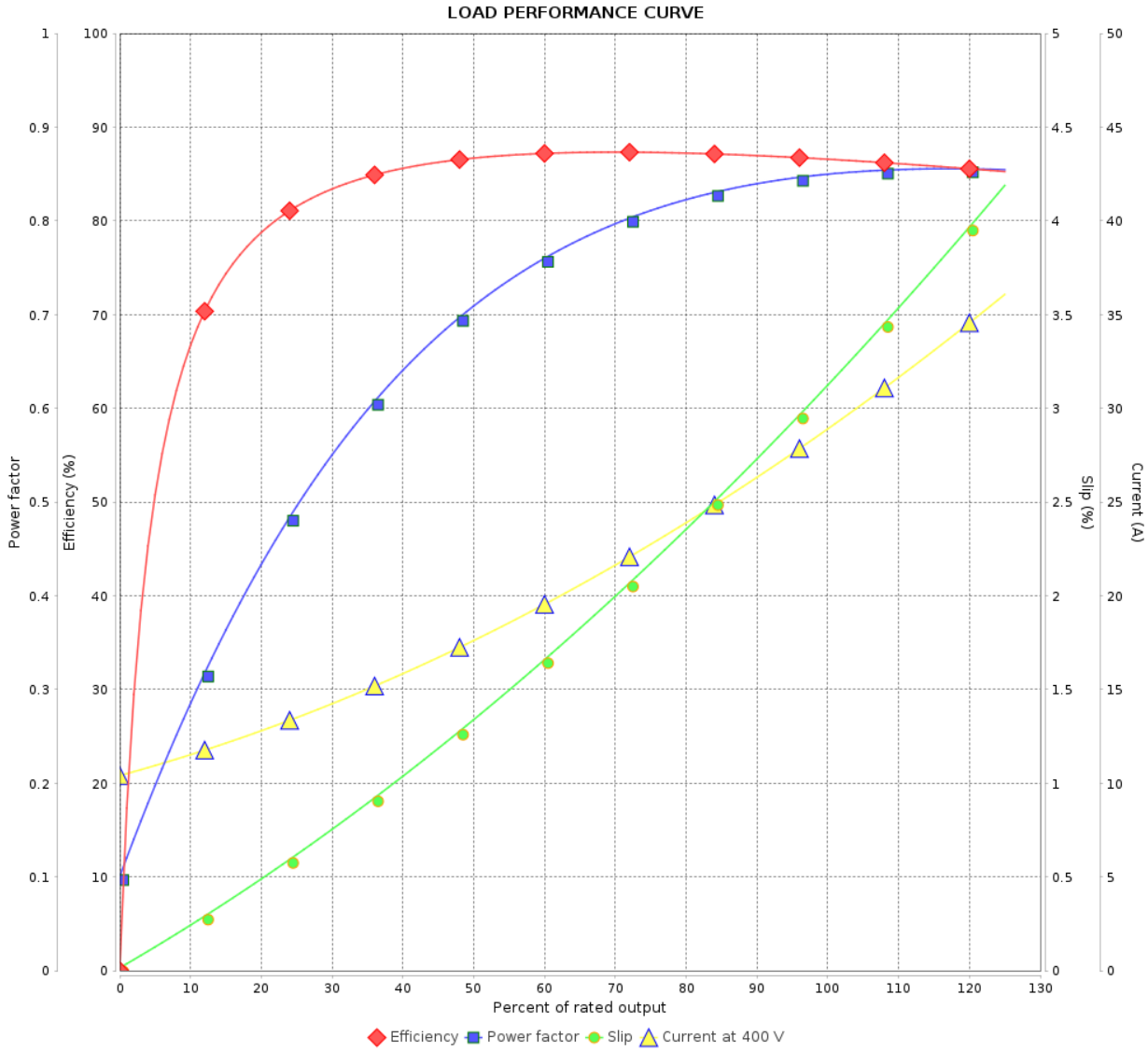
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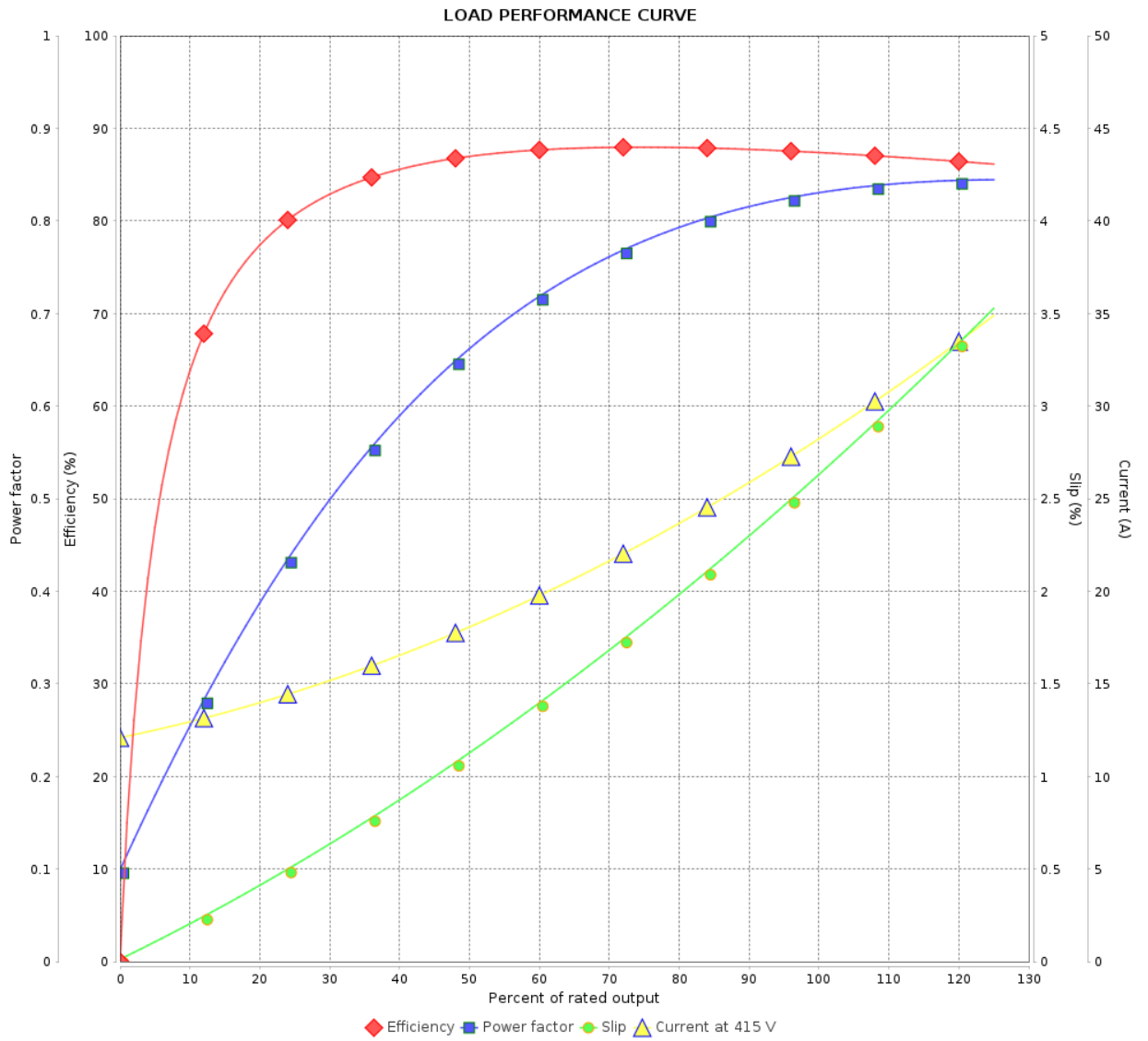
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