

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP High Efficiency Three-Phase Product code : 10372266

Frame	: 256T	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	: 109 kg
Protection degree	: IP23	Moment of inertia (J)	: 0.0778 kgm ²
Design	: B		

Output [HP]	20	20	20	20
Poles	4	4	4	4
Frequency [Hz]	60	50	50	50
Rated voltage [V]	230/460	380	400	415
Rated current [A]	51.0/25.5	31.0	31.7	30.6
L. R. Amperes [A]	286/143	115	130	138
LRC [A]	5.6x(Code G)	3.7x(Code C)	4.1x(Code E)	4.5x(Code E)
No load current [A]	21.8/10.9	11.1	12.4	13.7
Rated speed [RPM]	1765	1440	1450	1455
Slip [%]	1.94	4.00	3.33	3.00
Rated torque [kgfm]	8.22	10.1	10.0	9.98
Locked rotor torque [%]	229	160	180	200
Breakdown torque [%]	250	160	180	200
Service factor	1.15	1.00	1.00	1.00
Temperature rise	105 K	105 K	105 K	105 K
Locked rotor time	21s (cold) 12s (hot)	27s (cold) 15s (hot)	25s (cold) 14s (hot)	23s (cold) 13s (hot)
Noise level ²	60.0 dB(A)			
Efficiency (%)	25%			
	50%	90.2	87.5	87.5
	75%	91.0	88.5	88.5
	100%	91.0	87.5	88.5
Power Factor	25%			
	50%	0.64	0.72	0.62
	75%	0.75	0.81	0.74
	100%	0.81	0.84	0.78

	Drive end	Non drive end	Foundation loads	
Bearing type	: 6309 Z C3	6209 Z C3	Max. traction	: 259 kgf
Sealing	: Without	Without	Max. compression	: 368 kgf
	Bearing Seal	Bearing Seal		
Lubrication interval	: 20000 h	20000 h		
Lubricant amount	: 13 g	9 g		
Lubricant type	: Mobil Polyrex EM			

Notes

USABLE @208V 56.4A SF 1.15 SFA 64.9A

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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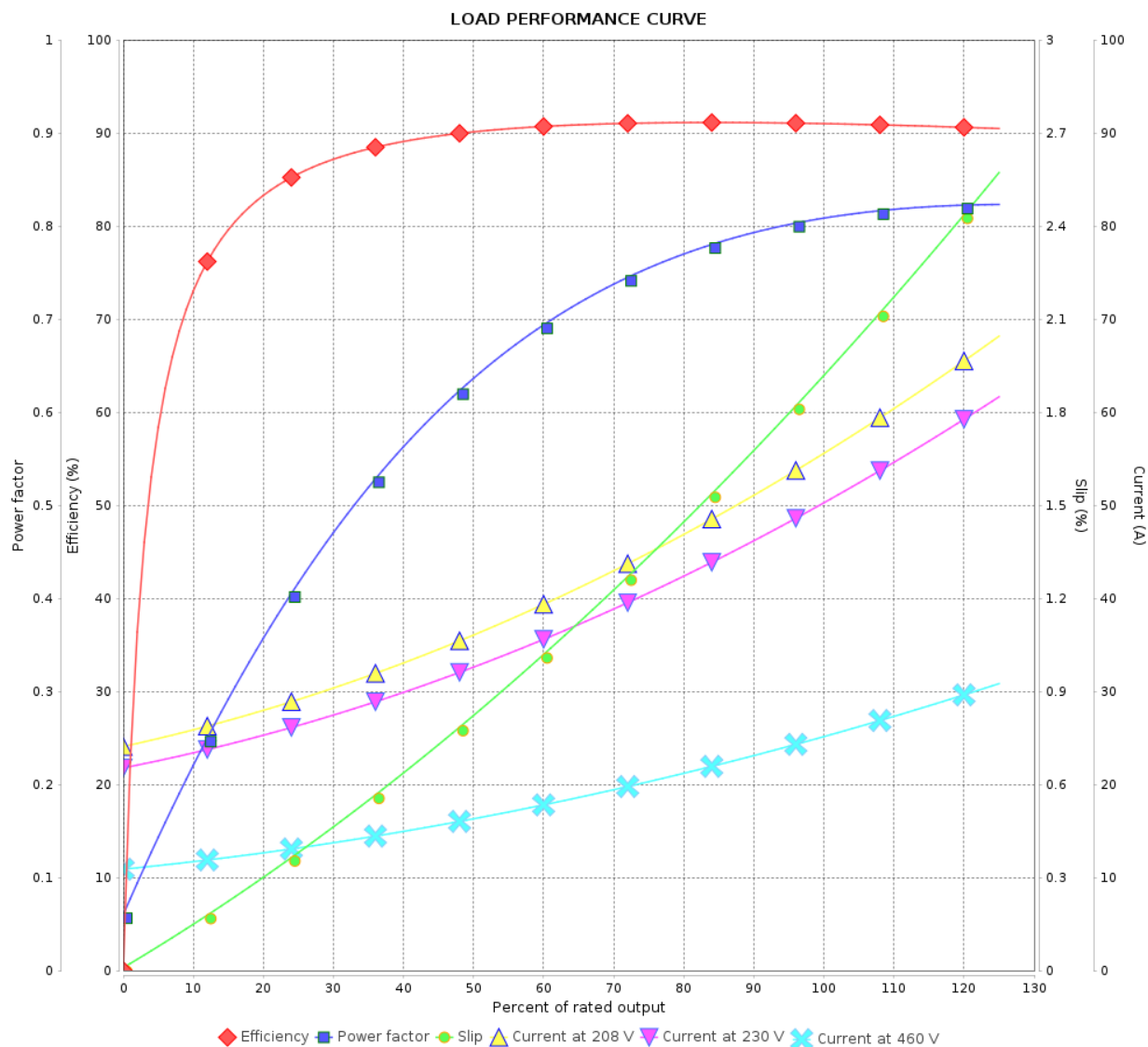
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP High Efficiency Three-Phase Product code : 10372266



Performance : 230/460 V 60 Hz 4P

Rated current : 51.0/25.5 A
LRC : 5.6
Rated torque : 8.22 kgfm
Locked rotor torque : 229 %
Breakdown torque : 250 %
Rated speed : 1765 rpm

Moment of inertia (J) : 0.0778 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 105 K
Design : B

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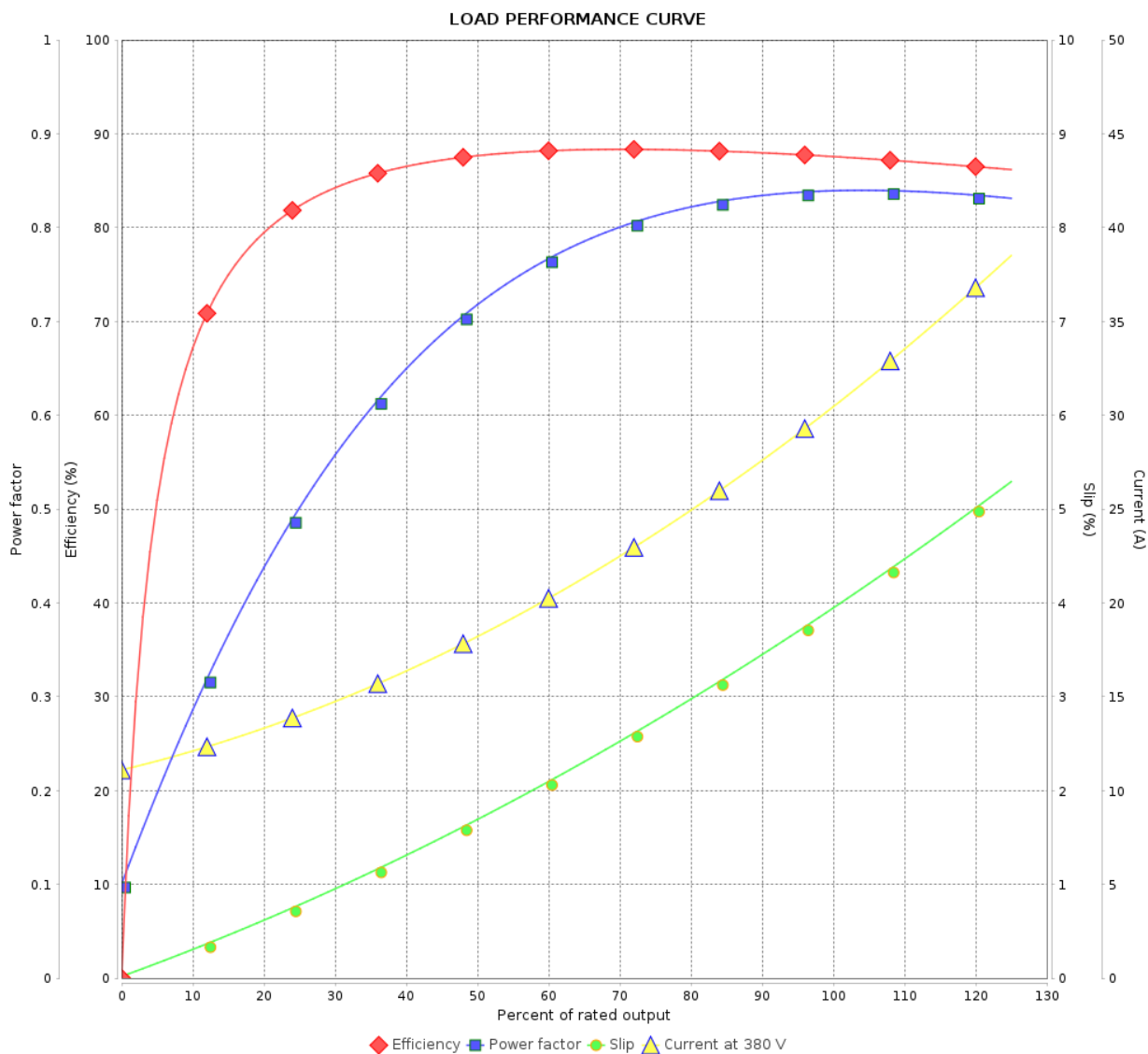
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP High Efficiency Three-Phase Product code : 10372266



Performance : 380 V 50 Hz 4P

Rated current	: 31.0 A	Moment of inertia (J)	: 0.0778 kgm ²
LRC	: 3.7	Duty cycle	: Cont.(S1)
Rated torque	: 10.1 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 160 %	Temperature rise	: 105 K
Rated speed	: 1440 rpm	Design	: B

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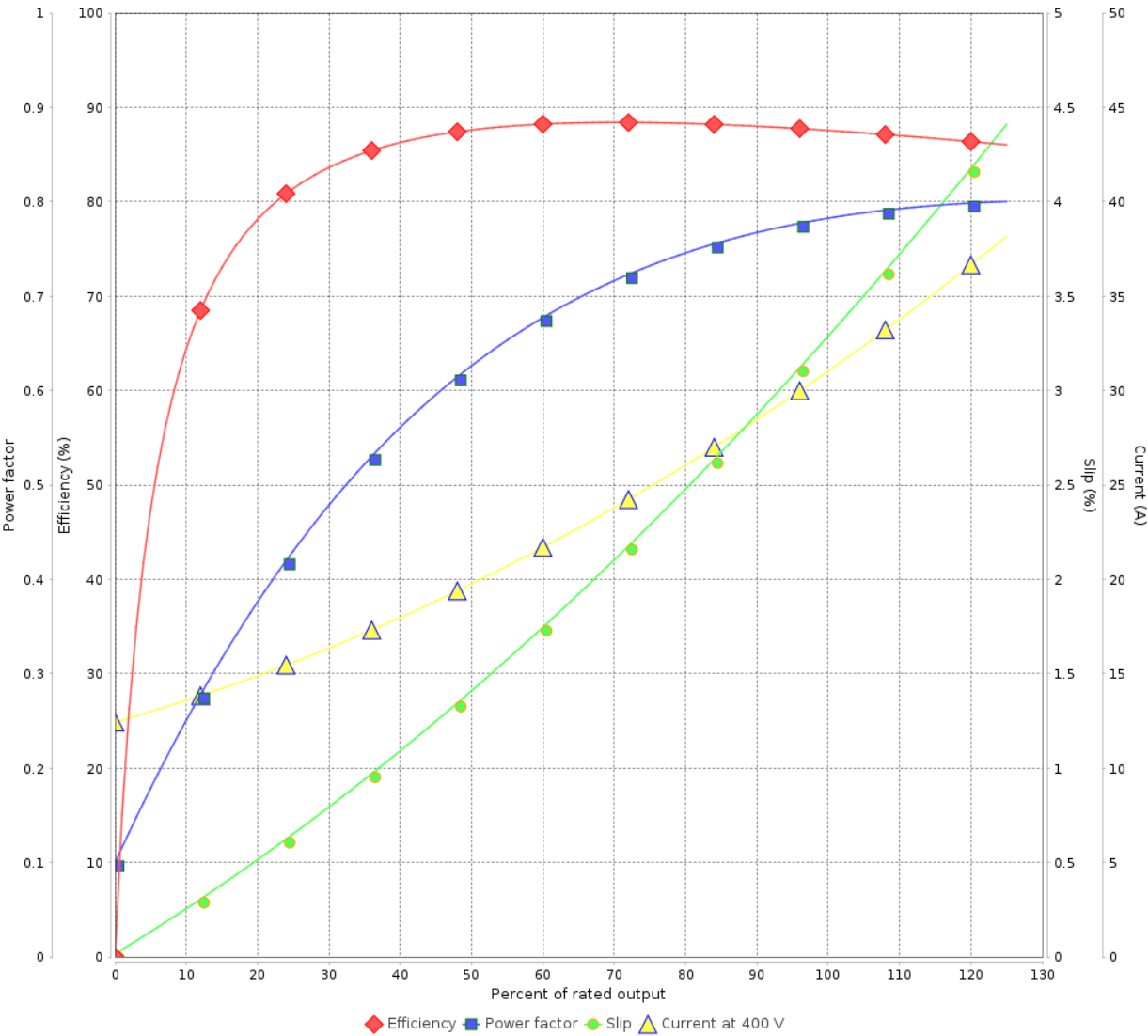
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP High Efficiency Three-Phase Product code : 10372266

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Performance : 400 V 50 Hz 4P			
Rated current	: 31.7 A	Moment of inertia (J)	: 0.0778 kgm²
LRC	: 4.1	Duty cycle	: Cont.(S1)
Rated torque	: 10.0 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 180 %	Temperature rise	: 105 K
Rated speed	: 1450 rpm	Design	: B

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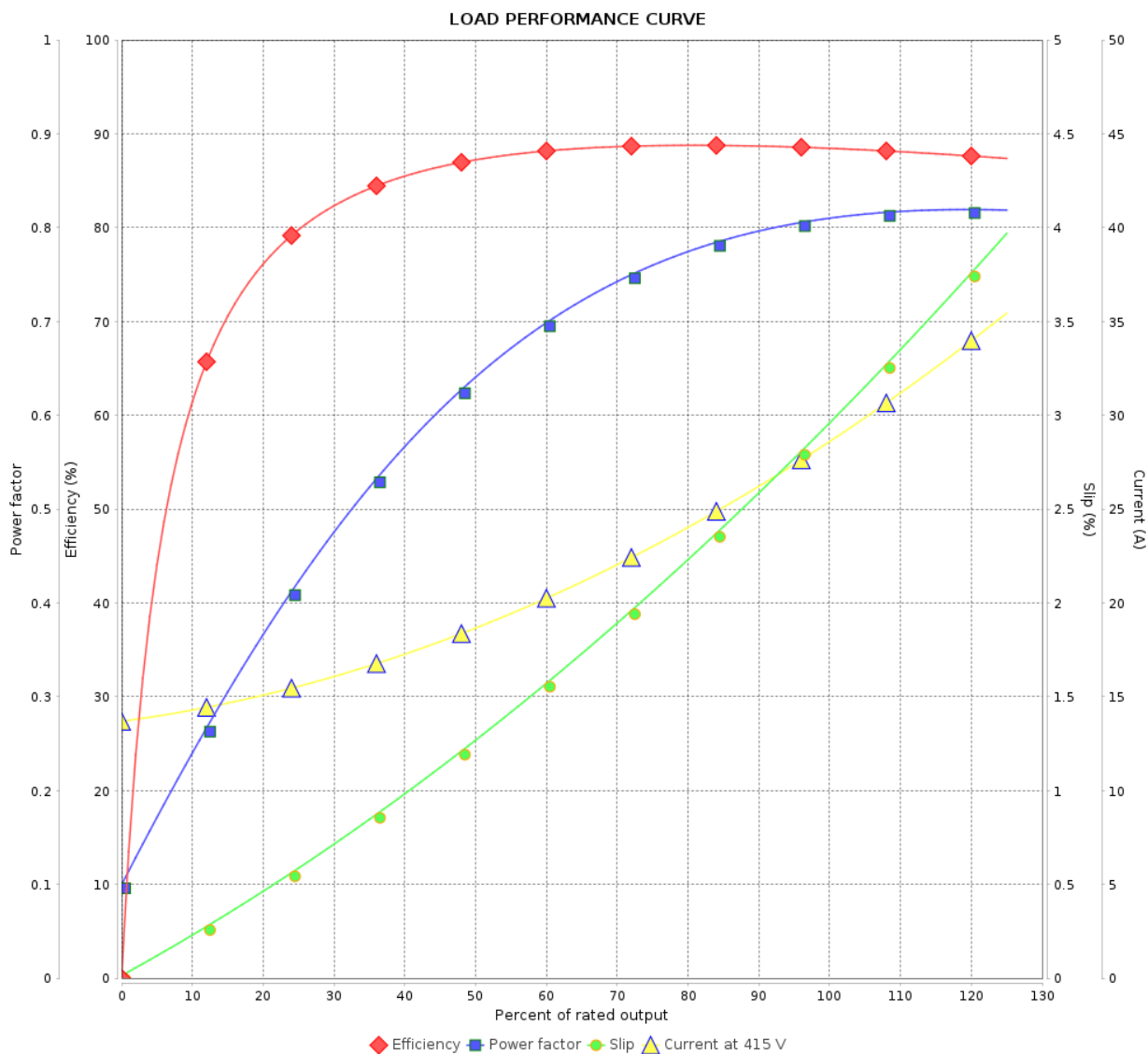
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP High Efficiency Three-Phase Product code : 10372266



Performance : 415 V 50 Hz 4P

Rated current : 30.6 A
LRC : 4.5
Rated torque : 9.98 kgfm
Locked rotor torque : 200 %
Breakdown torque : 200 %
Rated speed : 1455 rpm

Moment of inertia (J) : 0.0778 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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