

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP High Efficiency Three-Phase Product code : 11997217

Frame	: 284TC	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	: 0.0 kg
Protection degree	: IP23	Moment of inertia (J)	: 0.1166 kgm ²
Design	: B		

Output [HP]	25	25	25	25
Poles	4	4	4	4
Frequency [Hz]	60	50	50	50
Rated voltage [V]	230/460	380	400	415
Rated current [A]	60.2/30.1	37.4	35.9	34.6
L. R. Amperes [A]	361/181	168	180	187
LRC [A]	6.0x(Code G)	4.5x(Code D)	5.0x(Code E)	5.4x(Code F)
No load current [A]	23.0/11.5	10.8	11.8	12.7
Rated speed [RPM]	1765	1445	1450	1455
Slip [%]	1.94	3.67	3.33	3.00
Rated torque [kgfm]	10.3	12.6	12.5	12.5
Locked rotor torque [%]	220	170	190	210
Breakdown torque [%]	250	180	200	220
Service factor	1.15	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	23s (cold) 13s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	23s (cold) 13s (hot)
Noise level ²	62.0 dB(A)			
Efficiency (%)	25%			
	50%	91.0	88.5	89.5
	75%	91.7	90.2	90.2
	100%	91.7	88.5	89.5
Power Factor	25%			
	50%	0.70	0.75	0.69
	75%	0.79	0.83	0.79
	100%	0.84	0.85	0.83

		<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	:	6311 Z C3	6211 Z C3	Max. traction	: 392 kgf
Sealing	:	Without	Without	Max. compression	: 392 kgf
		Bearing Seal	Bearing Seal		
Lubrication interval	:	20000 h	20000 h		
Lubricant amount	:	18 g	11 g		
Lubricant type	:	Mobil Polyrex EM			

Notes

USABLE @208V 66.6A SF 1.15 SFA 76.6A

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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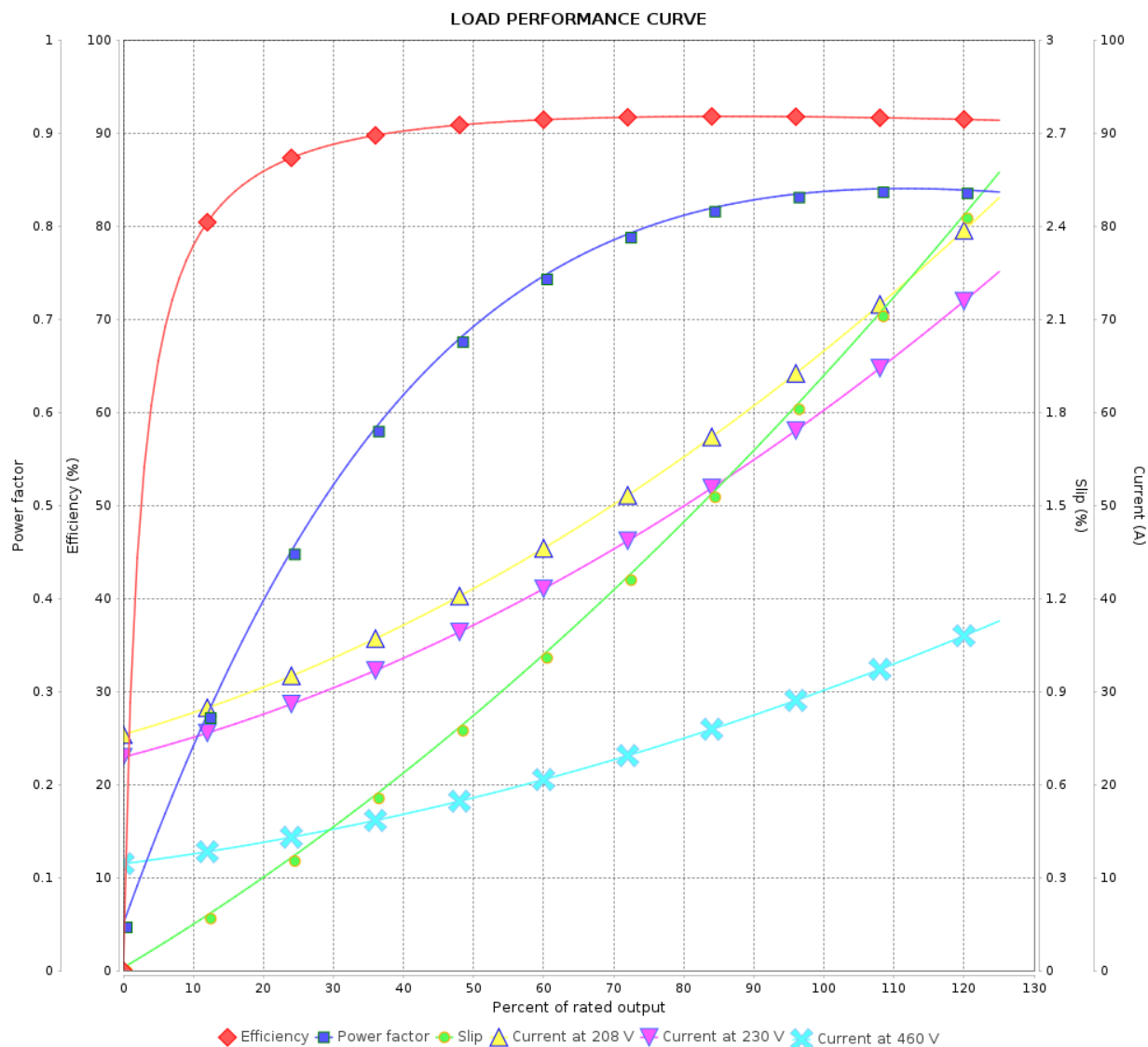
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP High Efficiency Three-Phase Product code : 11997217



Performance : 230/460 V 60 Hz 4P

Rated current : 60.2/30.1 A
LRC : 6.0
Rated torque : 10.3 kgfm
Locked rotor torque : 220 %
Breakdown torque : 250 %
Rated speed : 1765 rpm

Moment of inertia (J) : 0.1166 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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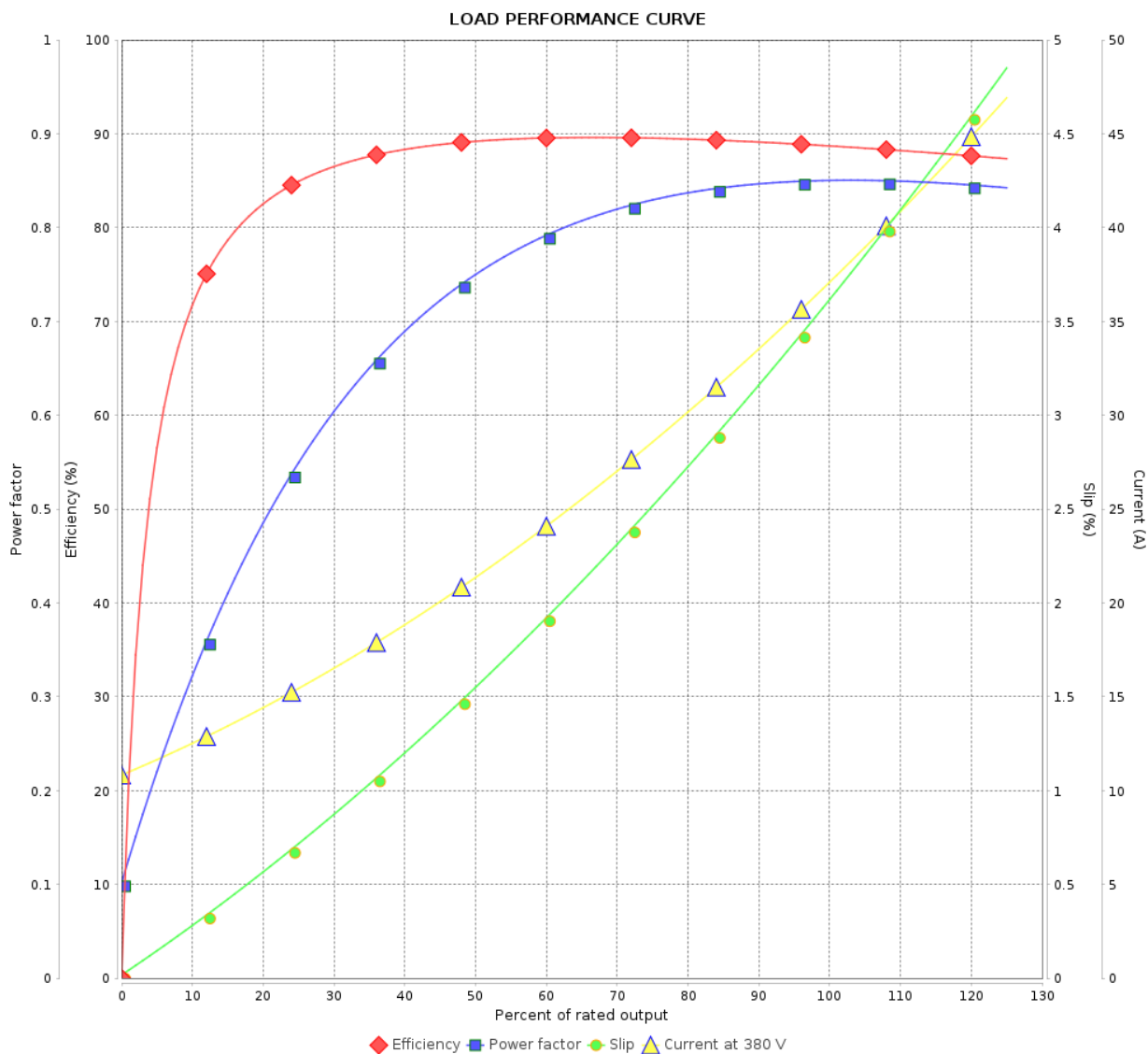
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP High Efficiency Three-Phase Product code : 11997217



Performance : 380 V 50 Hz 4P

Rated current	: 37.4 A	Moment of inertia (J)	: 0.1166 kgm ²
LRC	: 4.5	Duty cycle	: Cont.(S1)
Rated torque	: 12.6 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.15
Breakdown torque	: 180 %	Temperature rise	: 80 K
Rated speed	: 1445 rpm	Design	: B

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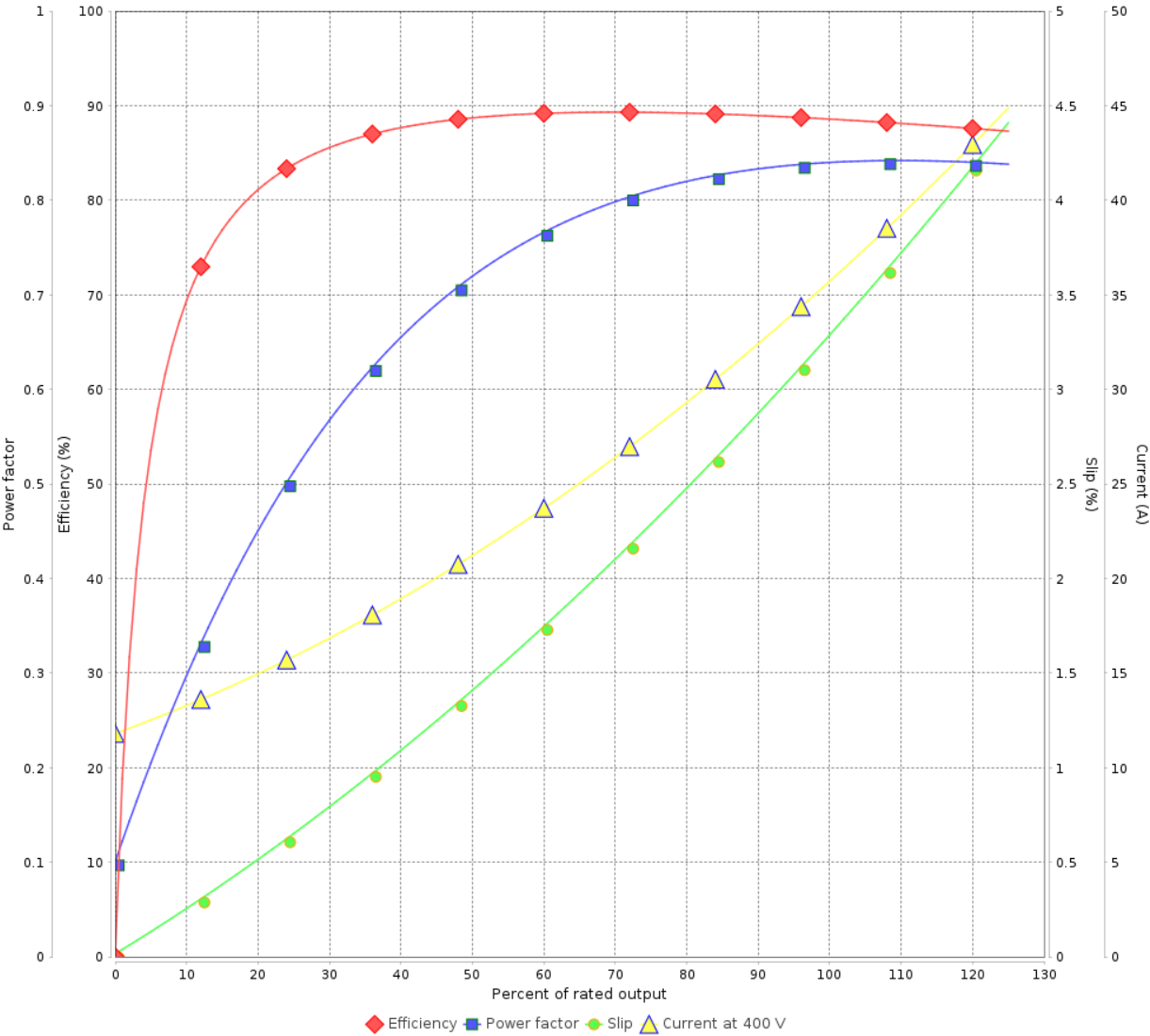
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP High Efficiency Three-Phase Product code : 11997217

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Performance : 400 V 50 Hz 4P			
Rated current	: 35.9 A	Moment of inertia (J)	: 0.1166 kgm ²
LRC	: 5.0	Duty cycle	: Cont.(S1)
Rated torque	: 12.5 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.15
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 1450 rpm	Design	: B

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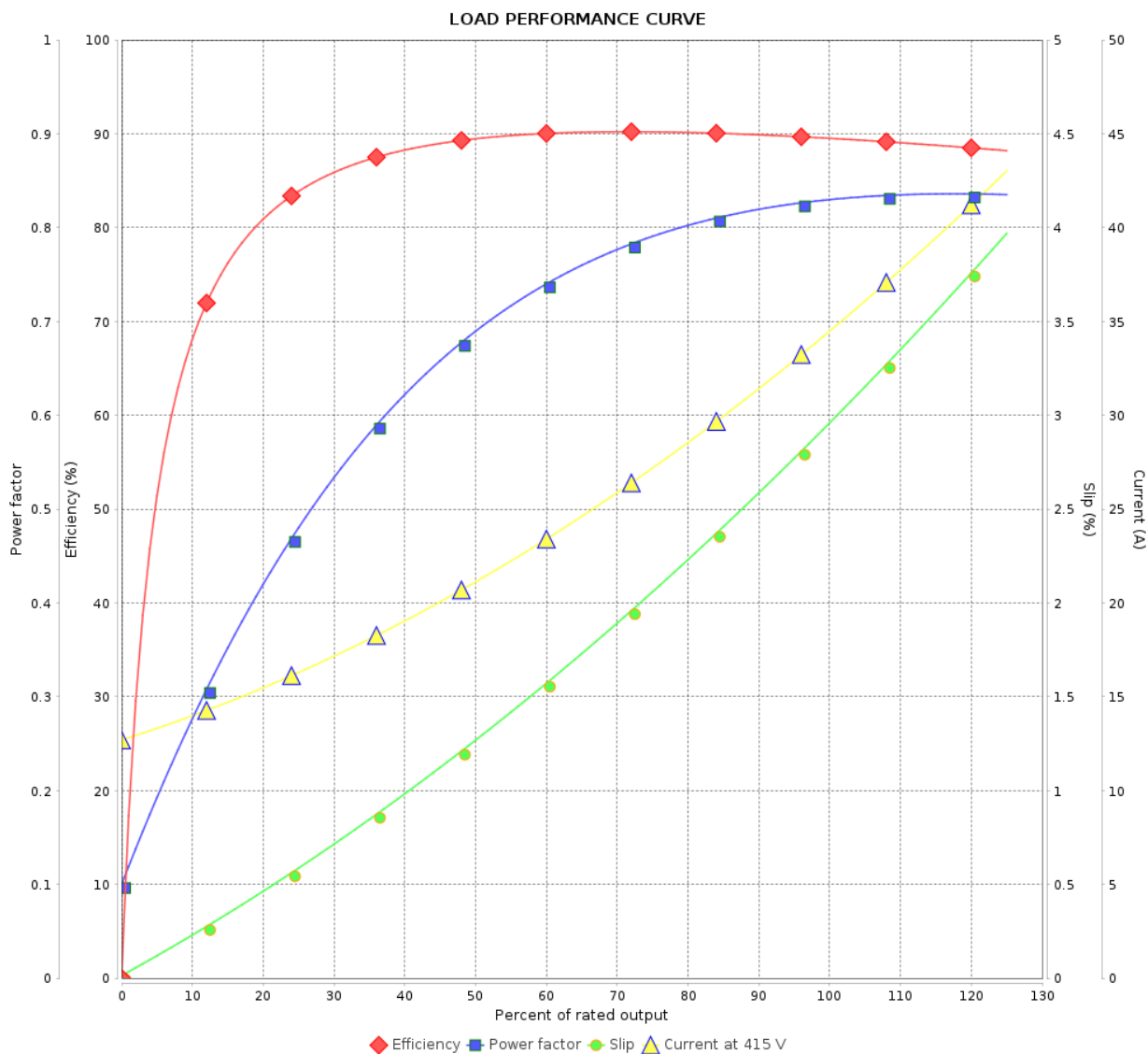
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Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 415 V 50 Hz 4P IE1

Rated current : 34.6 A
LRC : 5.4
Rated torque : 12.5 kgfm
Locked rotor torque : 210 %
Breakdown torque : 220 %
Rated speed : 1455 rpm

Moment of inertia (J) : 0.1166 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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