

# 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 <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>	: 0.0 kg	
Protection degree	: IP23	Moment of inertia (J)	: 0.1166 kgm <sup>2</sup>	
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 <sup>2</sup>	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
Bearing type	: Drive end 6311 Z C3 Non drive end 6211 Z C3	Foundation loads		
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction	: 392 kgf	
		Max. compression	: 392 kgf	
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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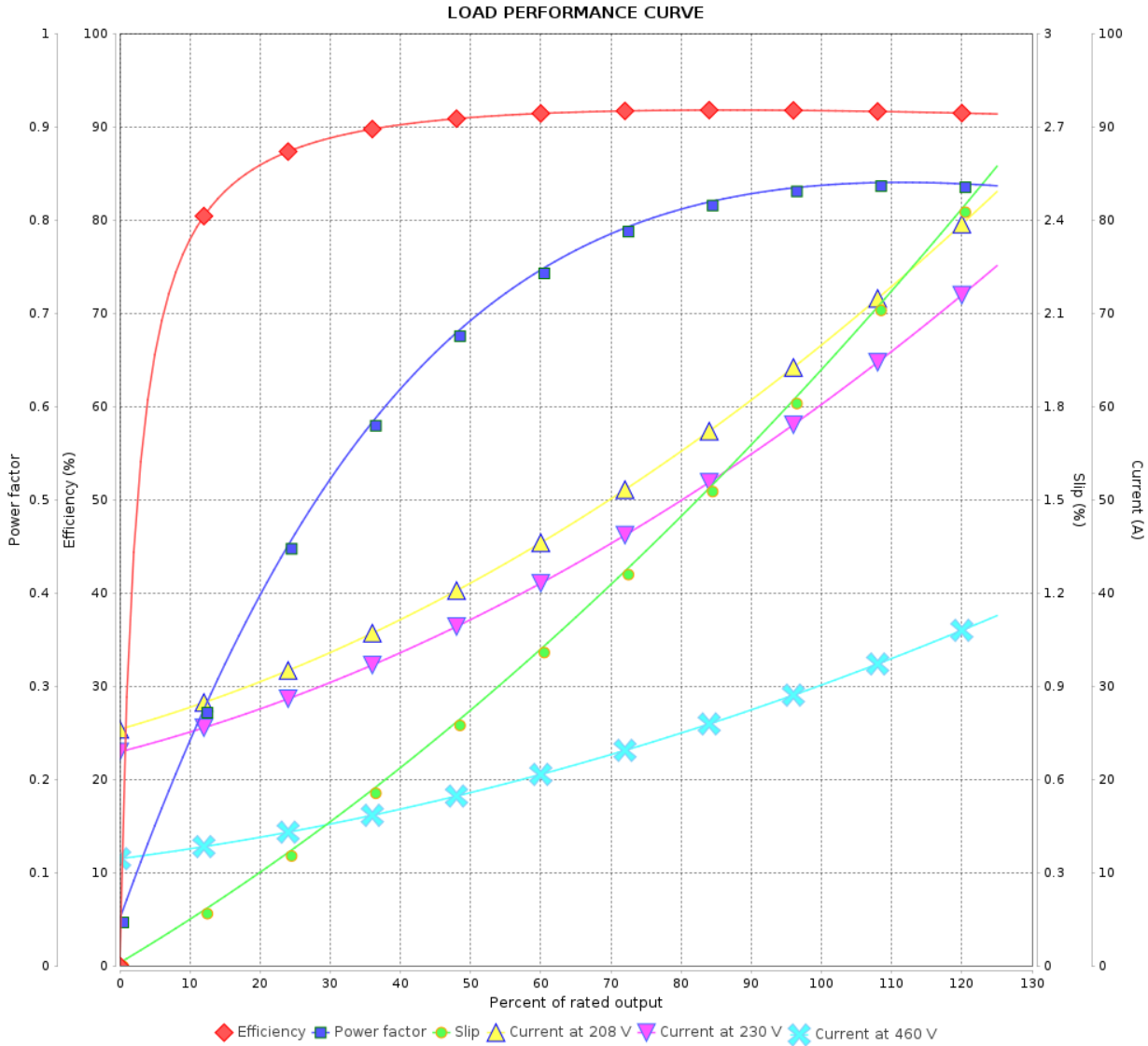
# LOAD PERFORMANCE CURVE

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 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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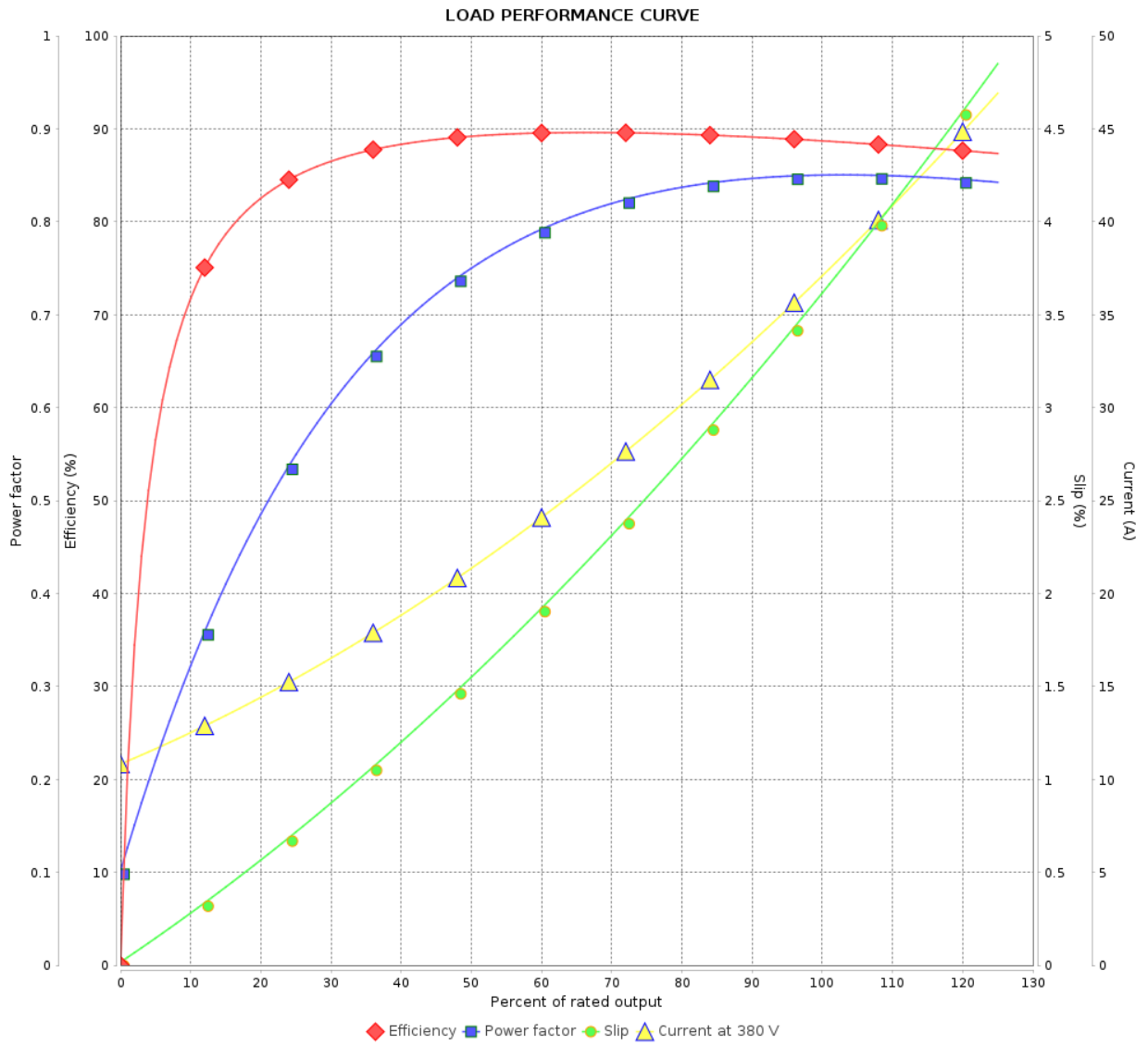
# LOAD PERFORMANCE CURVE

## 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 <sup>2</sup>
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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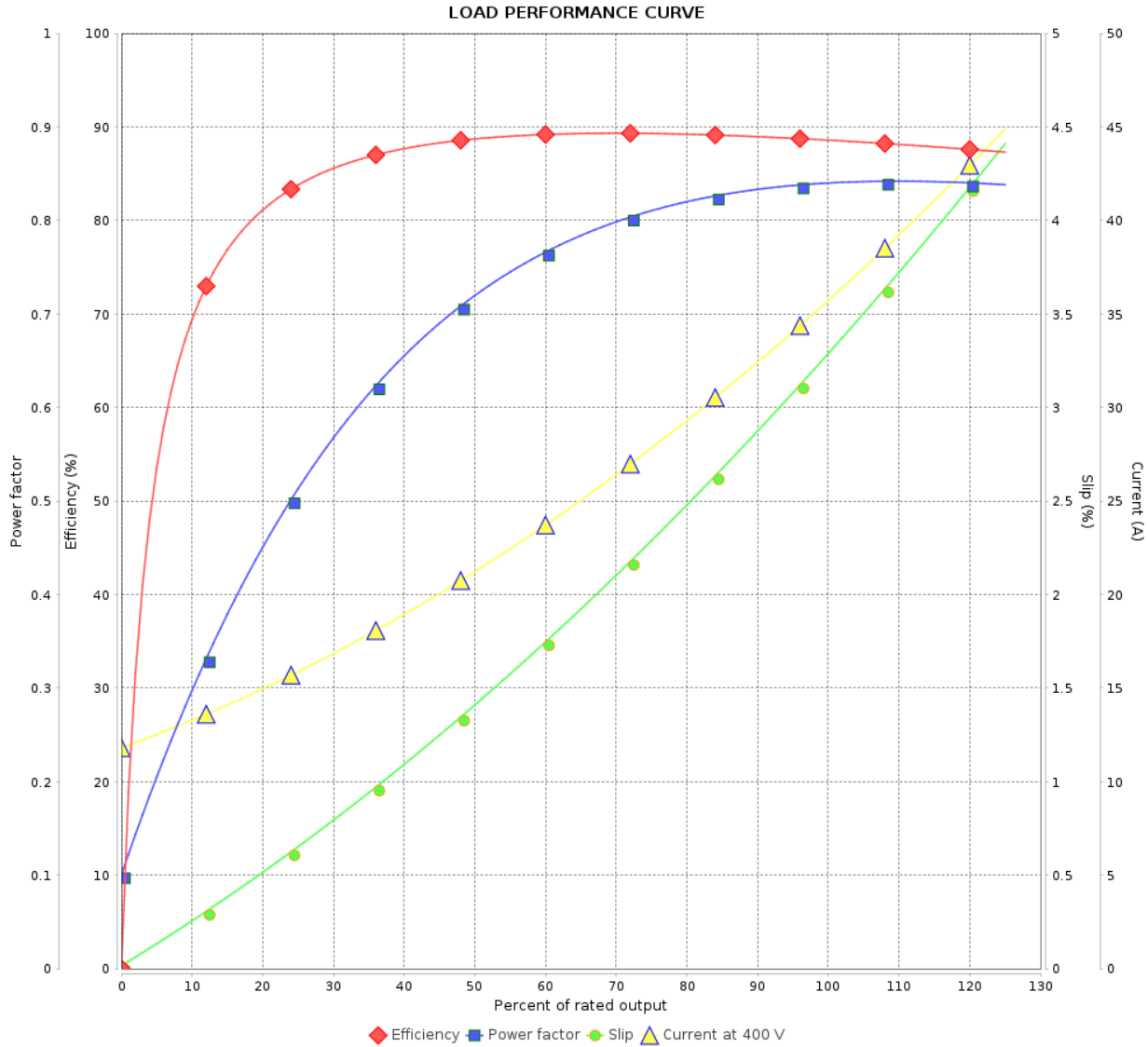
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

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



Performance : 400 V 50 Hz 4P

Rated current : 35.9 A  
 LRC : 5.0  
 Rated torque : 12.5 kgfm  
 Locked rotor torque : 190 %  
 Breakdown torque : 200 %  
 Rated speed : 1450 rpm

Moment of inertia (J) : 0.1166 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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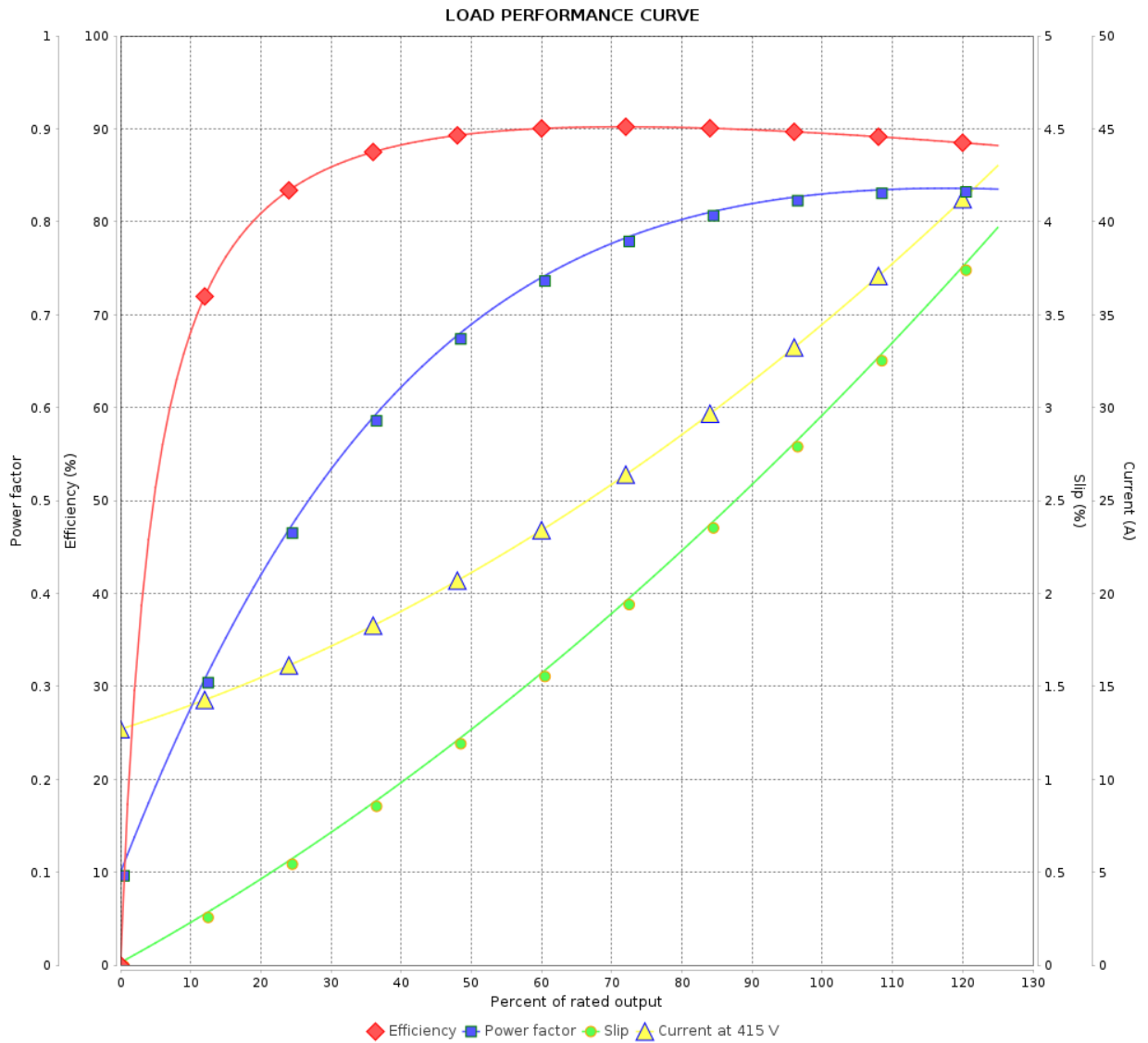
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

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



Performance : 415 V 50 Hz 4P IE1

Rated current	: 34.6 A	Moment of inertia (J)	: 0.1166 kgm <sup>2</sup>
LRC	: 5.4	Duty cycle	: Cont.(S1)
Rated torque	: 12.5 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B

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