

# 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	88.5	
	75%	91.7	90.2	89.5	
	100%	91.7	88.5	89.5	
Power Factor	25%				
	50%	0.70	0.75	0.72	
	75%	0.79	0.83	0.81	
	100%	0.84	0.85	0.84	
Bearing type	: Drive end 6311 Z C3	Non drive end 6211 Z C3	Foundation loads		
Sealing	: Without	Without	Max. traction	: 392 kgf	
	Bearing Seal	Bearing Seal	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.		
Rev.	Changes Summary		Performed	Checked	Date
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Checked by				Page	Revision
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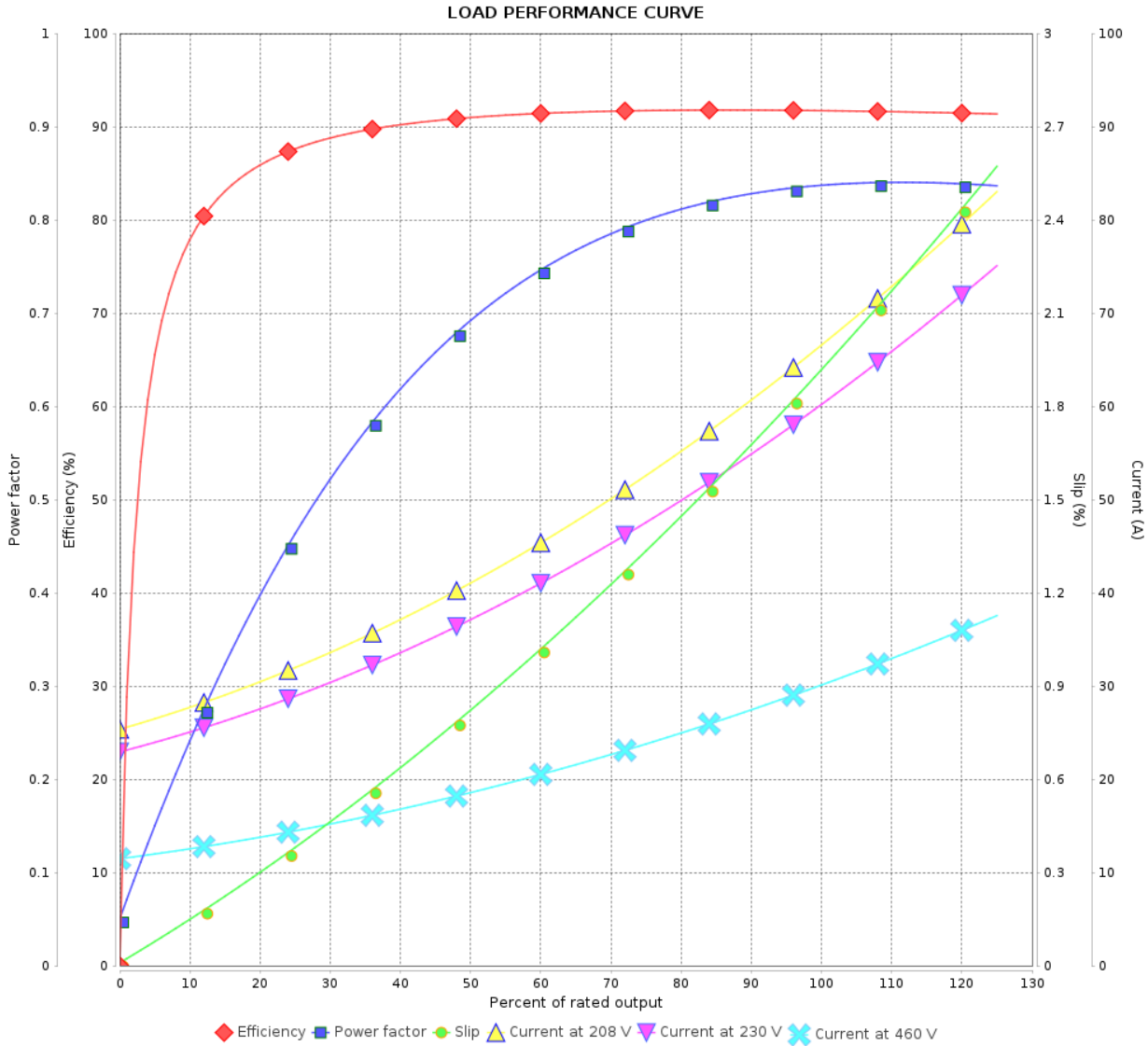
# LOAD PERFORMANCE CURVE

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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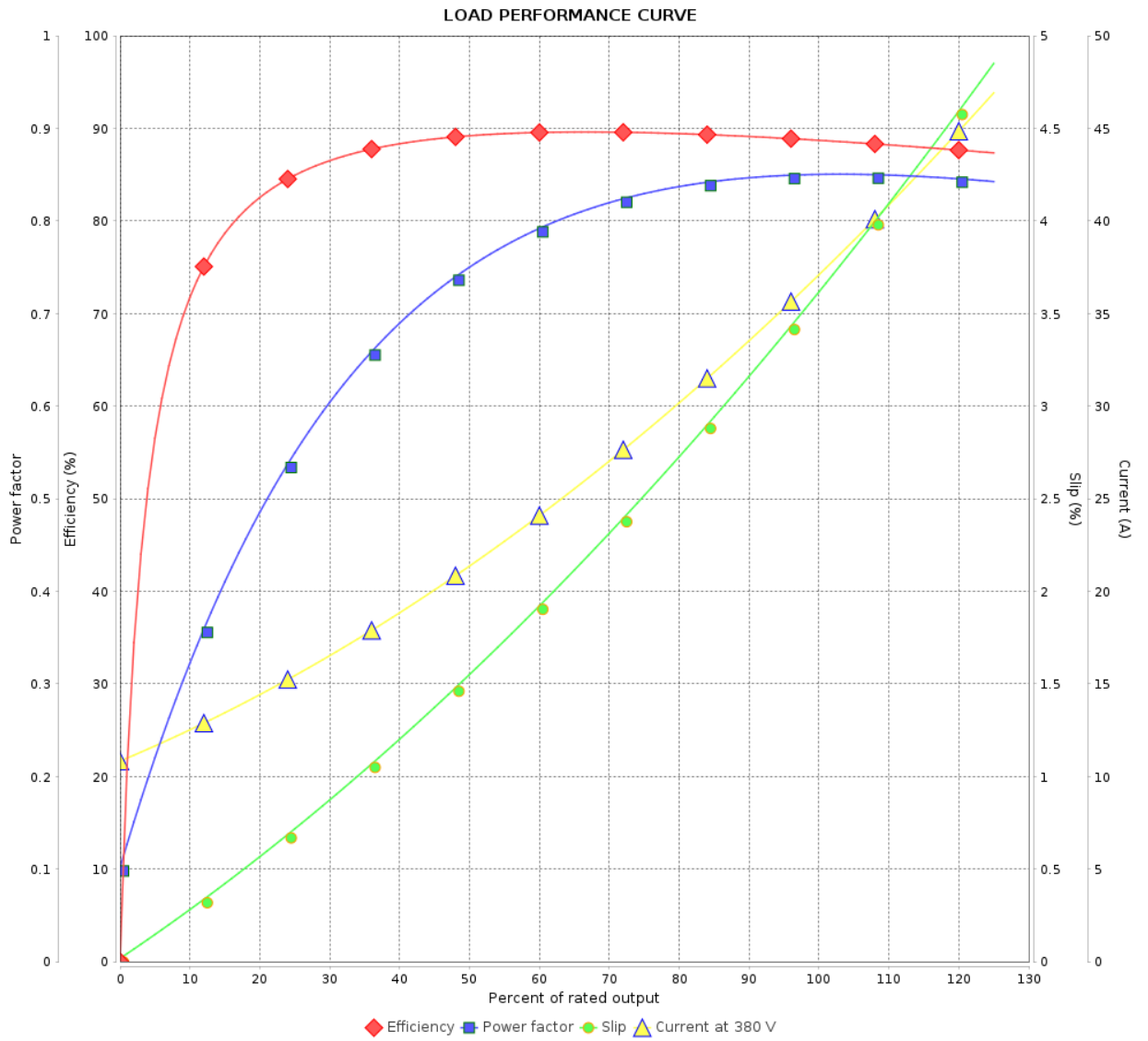
# LOAD PERFORMANCE CURVE

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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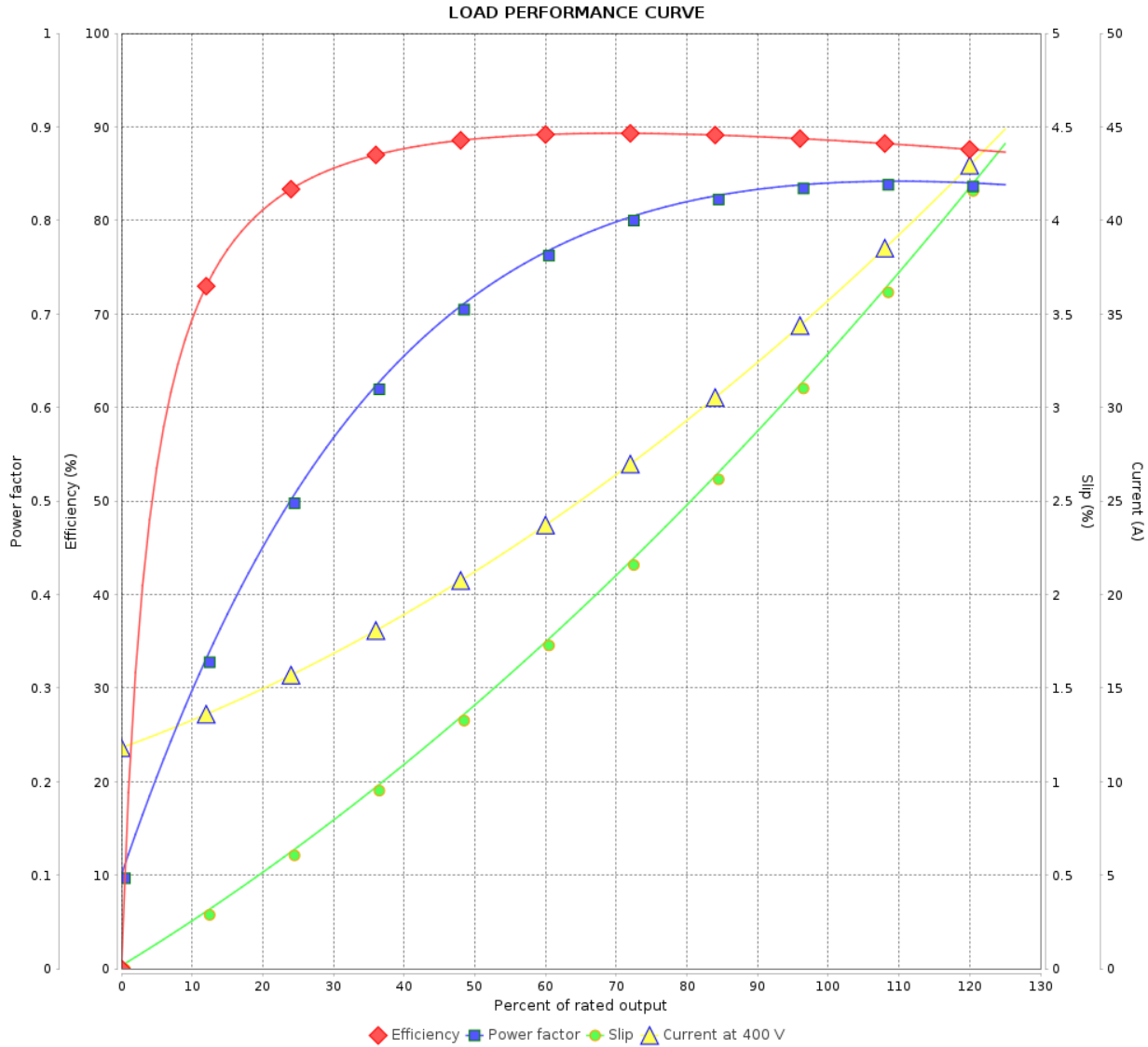
# LOAD PERFORMANCE CURVE

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	Moment of inertia (J)	: 0.1166 kgm <sup>2</sup>
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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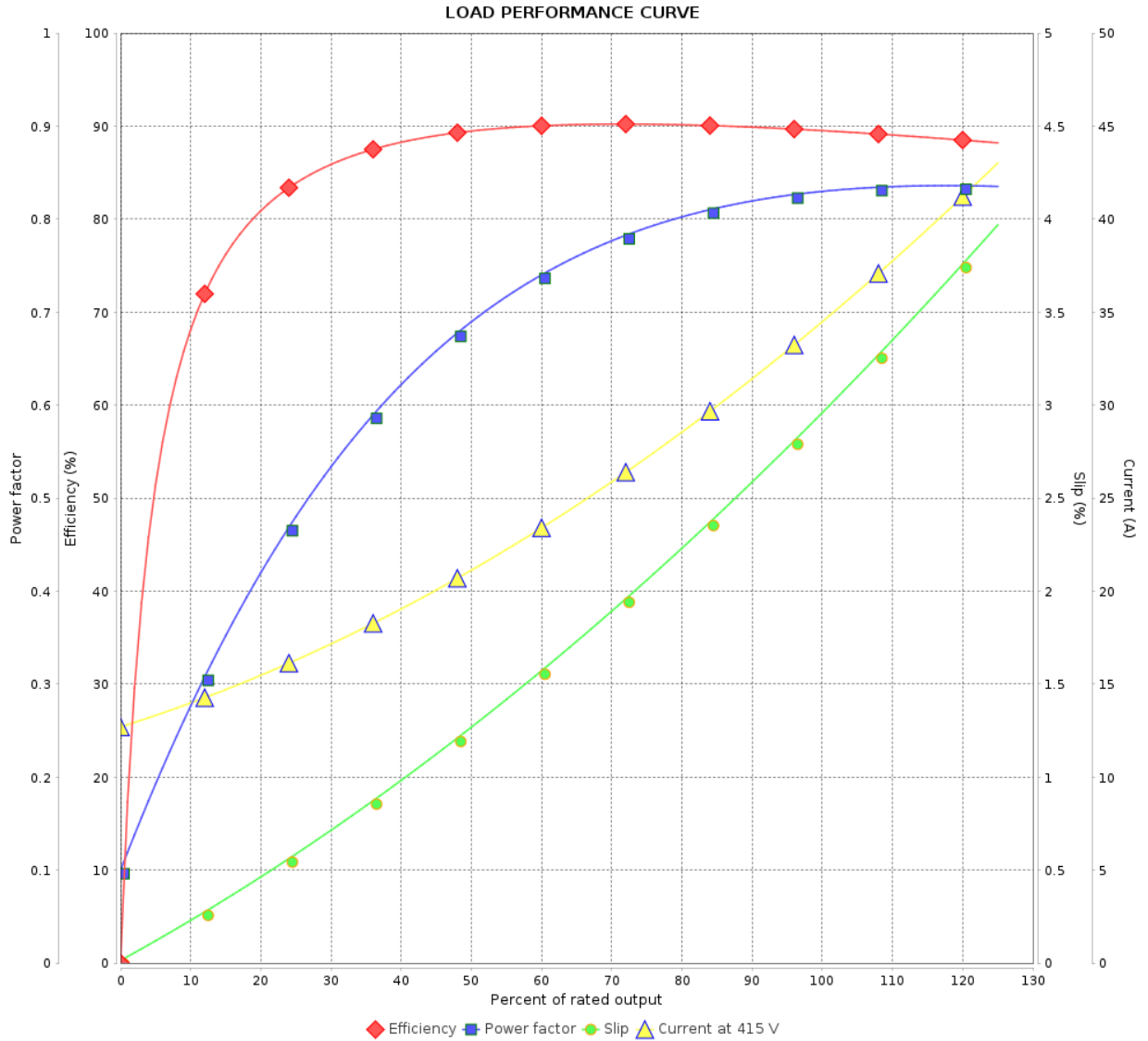
# LOAD PERFORMANCE CURVE

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  
 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 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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