

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: Close Coupled Pump NEMA Premium Efficiency Three-Phase		Product code : 11168267	
Frame	: 182JM	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>	: 29.4 kg		
Protection degree	: IP21	Moment of inertia (J)	: 0.0107 kgm <sup>2</sup>		
Design	: B				
Output [HP]	3	3	3	3	
Poles	4	4	4	4	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	230/460	380	400	415	
Rated current [A]	8.12/4.06	4.72	4.65	4.66	
L. R. Amperes [A]	65.8/32.9	28.8	30.2	32.2	
LRC [A]	8.1x(Code K)	6.1x(Code H)	6.5x(Code H)	6.9x(Code J)	
No load current [A]	4.74/2.37	2.15	2.40	2.65	
Rated speed [RPM]	1760	1450	1450	1455	
Slip [%]	2.22	3.33	3.33	3.00	
Rated torque [kgfm]	1.24	1.50	1.50	1.50	
Locked rotor torque [%]	240	200	220	250	
Breakdown torque [%]	300	280	310	340	
Service factor	1.15	1.15	1.15	1.15	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	21s (cold) 12s (hot)	34s (cold) 19s (hot)	30s (cold) 17s (hot)	28s (cold) 16s (hot)	
Noise level <sup>2</sup>	53.0 dB(A)				
Efficiency (%)	25%				
	50%	85.5	85.5	85.5	
	75%	88.5	86.5	86.5	
	100%	89.5	87.5	87.5	
Power Factor	25%				
	50%	0.54	0.63	0.58	
	75%	0.68	0.75	0.71	
	100%	0.76	0.81	0.78	
Bearing type	: <u>Drive end</u> 6207 ZZ	<u>Non drive end</u> 6205 ZZ	Foundation loads		
Sealing	: Without	Without	Max. traction	: 92 kgf	
	Bearing Seal	Bearing Seal	Max. compression	: 121 kgf	
Lubrication interval	: -	-			
Lubricant amount	: -	-			
Lubricant type	: Mobil Polyrex EM				
Notes USABLE @208V 8.98A SF 1.15 SFA 10.3A					
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
Performed by					
Checked by				Page	Revision
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# LOAD PERFORMANCE CURVE

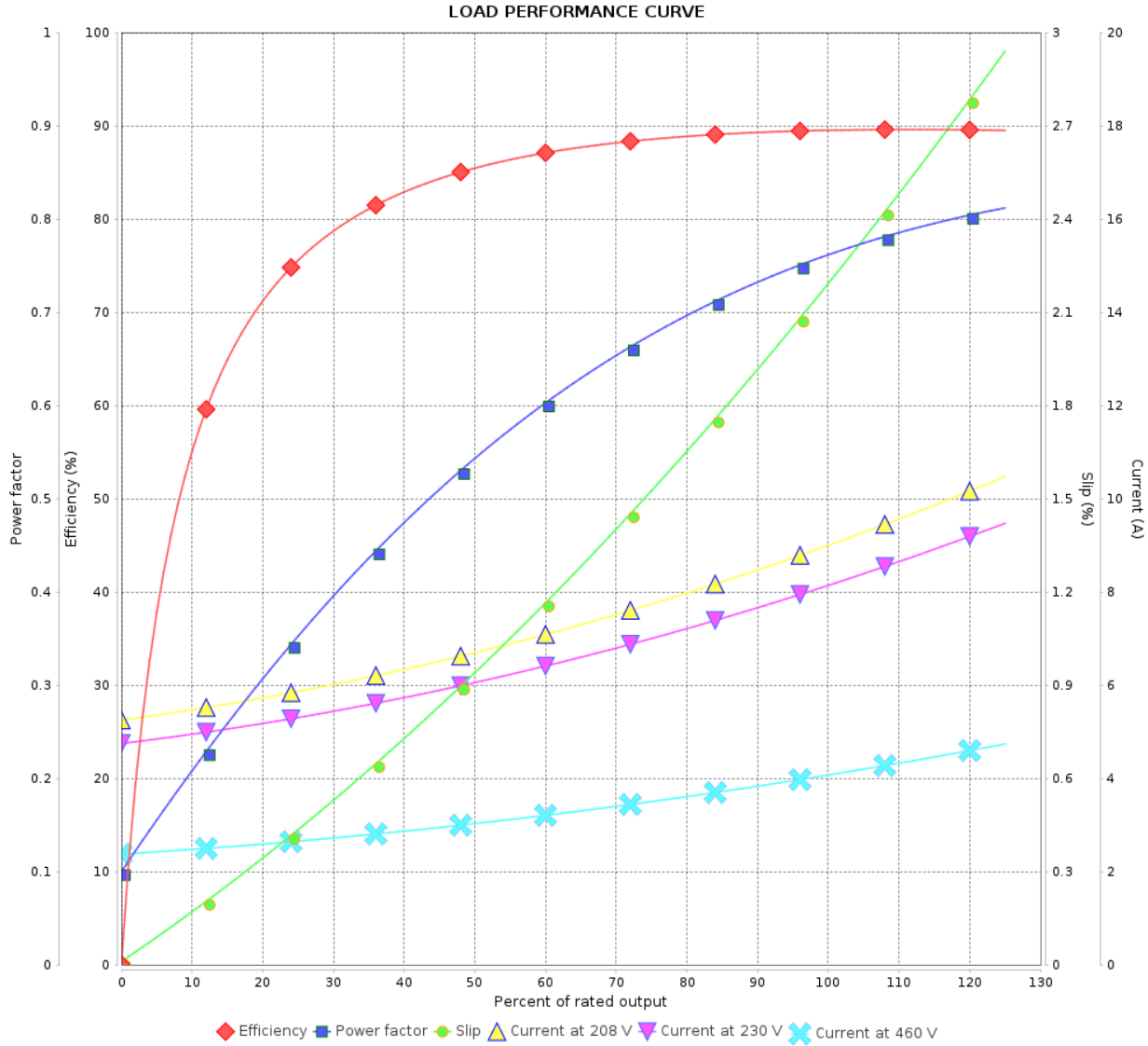
Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : Close Coupled Pump NEMA Premium  
Efficiency Three-Phase

Product code : 11168267



Performance : 230/460 V 60 Hz 4P

Rated current : 8.12/4.06 A  
 LRC : 8.1  
 Rated torque : 1.24 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 300 %  
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.0107 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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Date				

# LOAD PERFORMANCE CURVE

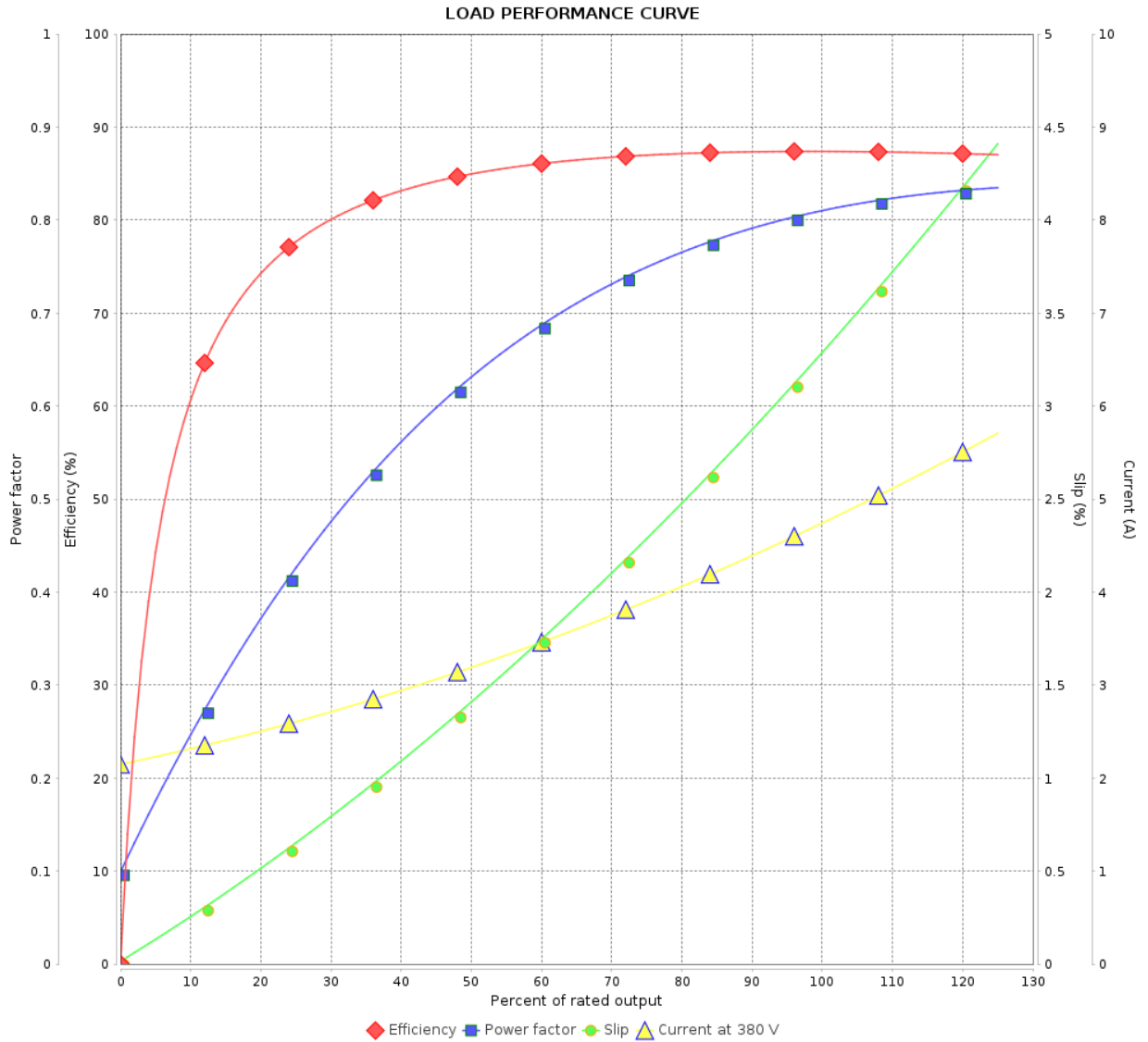
## Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : Close Coupled Pump NEMA Premium  
Efficiency Three-Phase

Product code : 11168267



Performance : 380 V 50 Hz 4P IE3

Rated current : 4.72 A  
 LRC : 6.1  
 Rated torque : 1.50 kgfm  
 Locked rotor torque : 200 %  
 Breakdown torque : 280 %  
 Rated speed : 1450 rpm

Moment of inertia (J) : 0.0107 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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Three Phase Induction Motor - Squirrel Cage

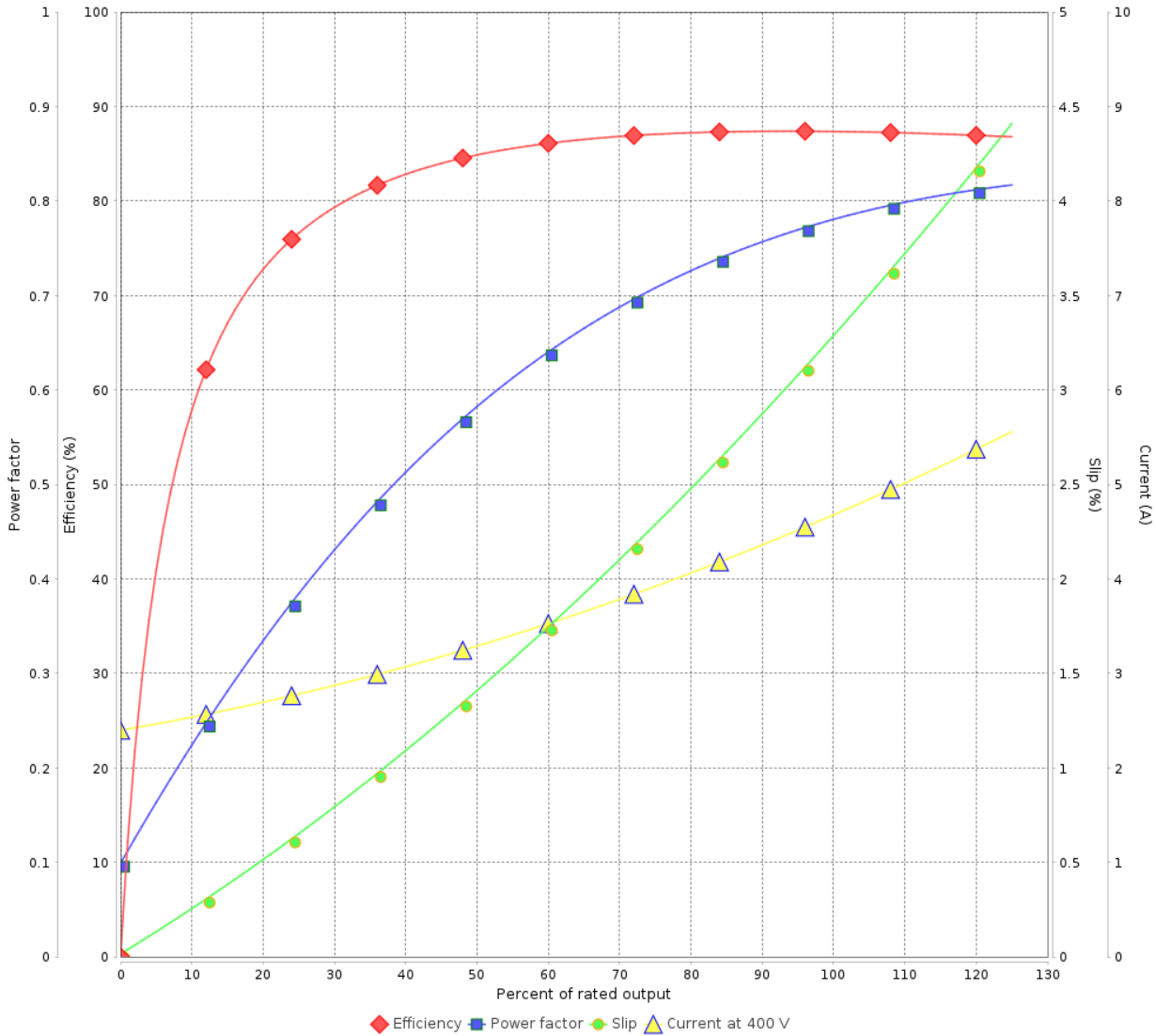


Customer :

Product line : Close Coupled Pump NEMA Premium  
Efficiency Three-Phase

Product code : 11168267

LOAD PERFORMANCE CURVE



Performance : 400 V 50 Hz 4P IE3

Rated current : 4.65 A  
LRC : 6.5  
Rated torque : 1.50 kgfm  
Locked rotor torque : 220 %  
Breakdown torque : 310 %  
Rated speed : 1450 rpm

Moment of inertia (J) : 0.0107 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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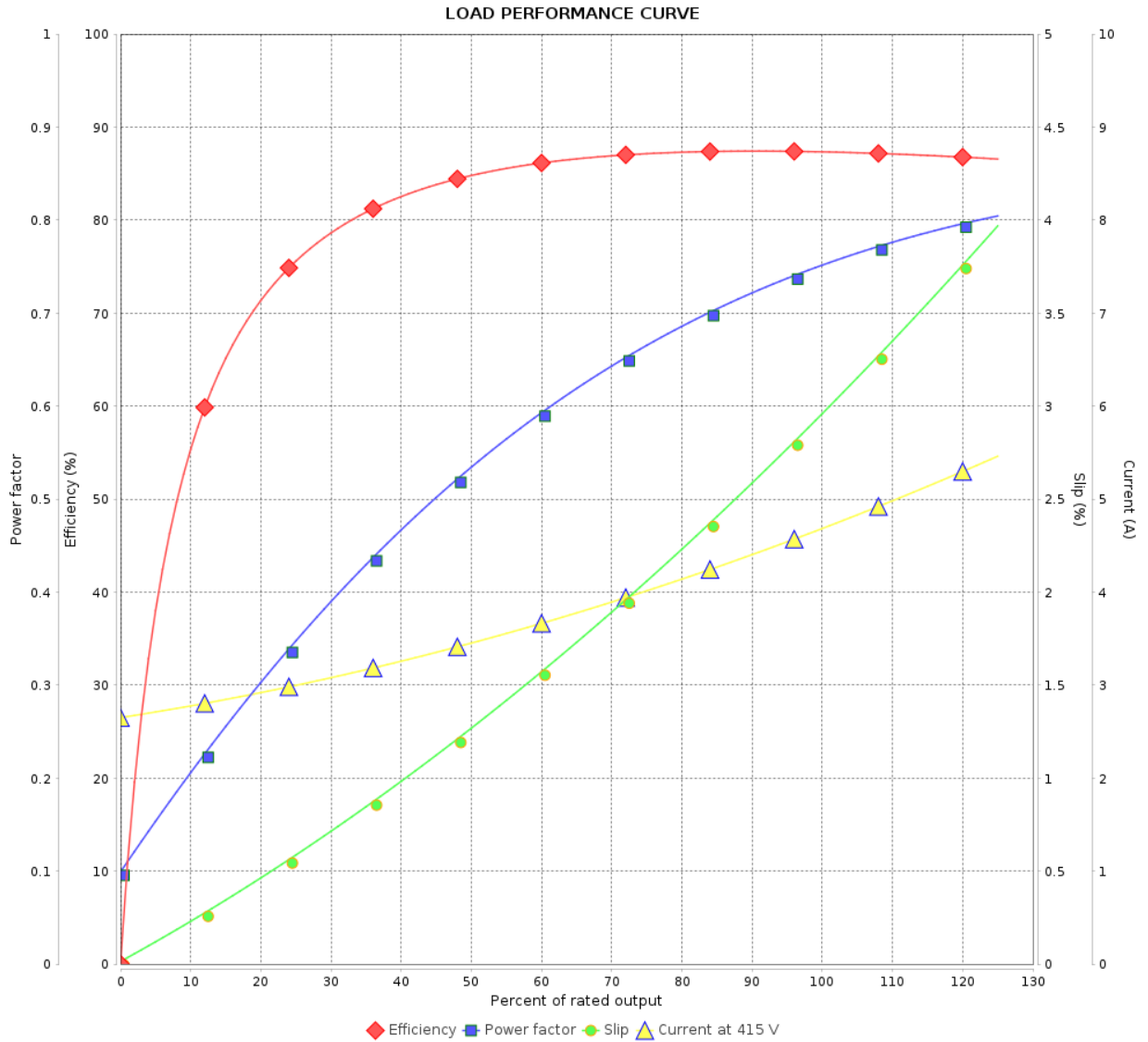
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump NEMA Premium  
Efficiency Three-Phase

Product code : 11168267



Performance : 415 V 50 Hz 4P IE3

Rated current : 4.66 A  
LRC : 6.9  
Rated torque : 1.50 kgfm  
Locked rotor torque : 250 %  
Breakdown torque : 340 %  
Rated speed : 1455 rpm

Moment of inertia (J) : 0.0107 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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