

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line : Three-Phase		Product code : 13737500		
Frame : 56H	Insulation class : F	Duty cycle : Cont.(S1)	Ambient temperature : -20°C to +40°C	Altitude : 1000 m.a.s.l.
Design : A	Cooling method : IC01 - ODP	Mounting : F-1	Rotation <sup>1</sup> : Both (CW and CCW)	Starting method : Direct On Line
	Approx. weight <sup>3</sup> : 17.2 kg	Moment of inertia (J) : 0.0049 kgm <sup>2</sup>		
Output [HP]	2	2	2	
Poles	4	4	4	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	5.38/2.69	6.52/3.26	5.79/3.07	
L. R. Amperes [A]	41.4/20.7	36.5/18.3	38.8/20.6	
LRC [A]	7.7x(Code K)	5.6x(Code G)	6.7x(Code J)	
No load current [A]	2.75/1.38	2.70/1.35	3.08/1.63	
Rated speed [RPM]	1740	1410	1430	
Slip [%]	3.33	6.00	4.67	
Rated torque [kgfm]	0.834	1.03	1.02	
Locked rotor torque [%]	260	200	250	
Breakdown torque [%]	320	229	280	
Service factor		1.00	1.00	
Temperature rise	80 K	105 K	80 K	
Locked rotor time	30s (cold) 17s (hot)	28s (cold) 16s (hot)	27s (cold) 15s (hot)	
Noise level <sup>2</sup>	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)	
Efficiency (%)	25%			
	50%	85.5	85.9	84.6
	75%	86.5	85.0	85.2
	100%	86.5	82.2	83.8
Power Factor	25%			
	50%	0.61	0.69	0.61
	75%	0.74	0.80	0.74
	100%	0.81	0.85	0.81
Bearing type	: Drive end 6204 ZZ	Non drive end 6202 ZZ	Foundation loads	
Sealing	: Without	Without	Max. traction	: 83 kgf
	Bearing Seal	Bearing Seal	Max. compression	: 100 kgf
Lubrication interval	: -	-		
Lubricant amount	: -	-		
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 5.95A SF 1.00 SFA 5.95A				
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
Performed by			Page 1 / 4	Revision
Checked by				
Date	17/05/2022			

# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

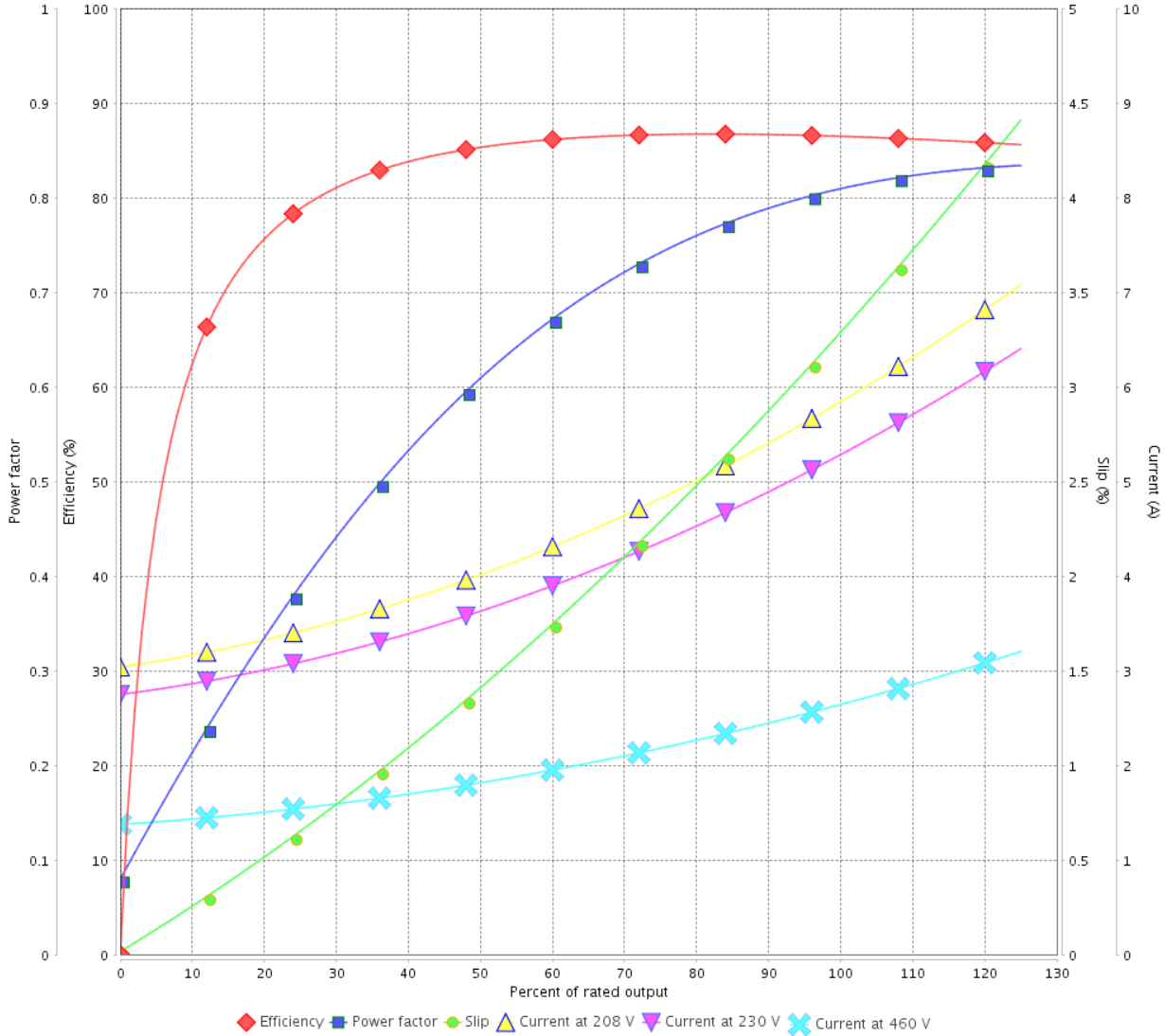


Customer :

Product line : Three-Phase

Product code : 13737500

LOAD PERFORMANCE CURVE



Performance : 230/460 V 60 Hz 4P

Rated current : 5.38/2.69 A  
 LRC : 7.7  
 Rated torque : 0.834 kgfm  
 Locked rotor torque : 260 %  
 Breakdown torque : 320 %  
 Rated speed : 1740 rpm

Moment of inertia (J) : 0.0049 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				

# LOAD PERFORMANCE CURVE

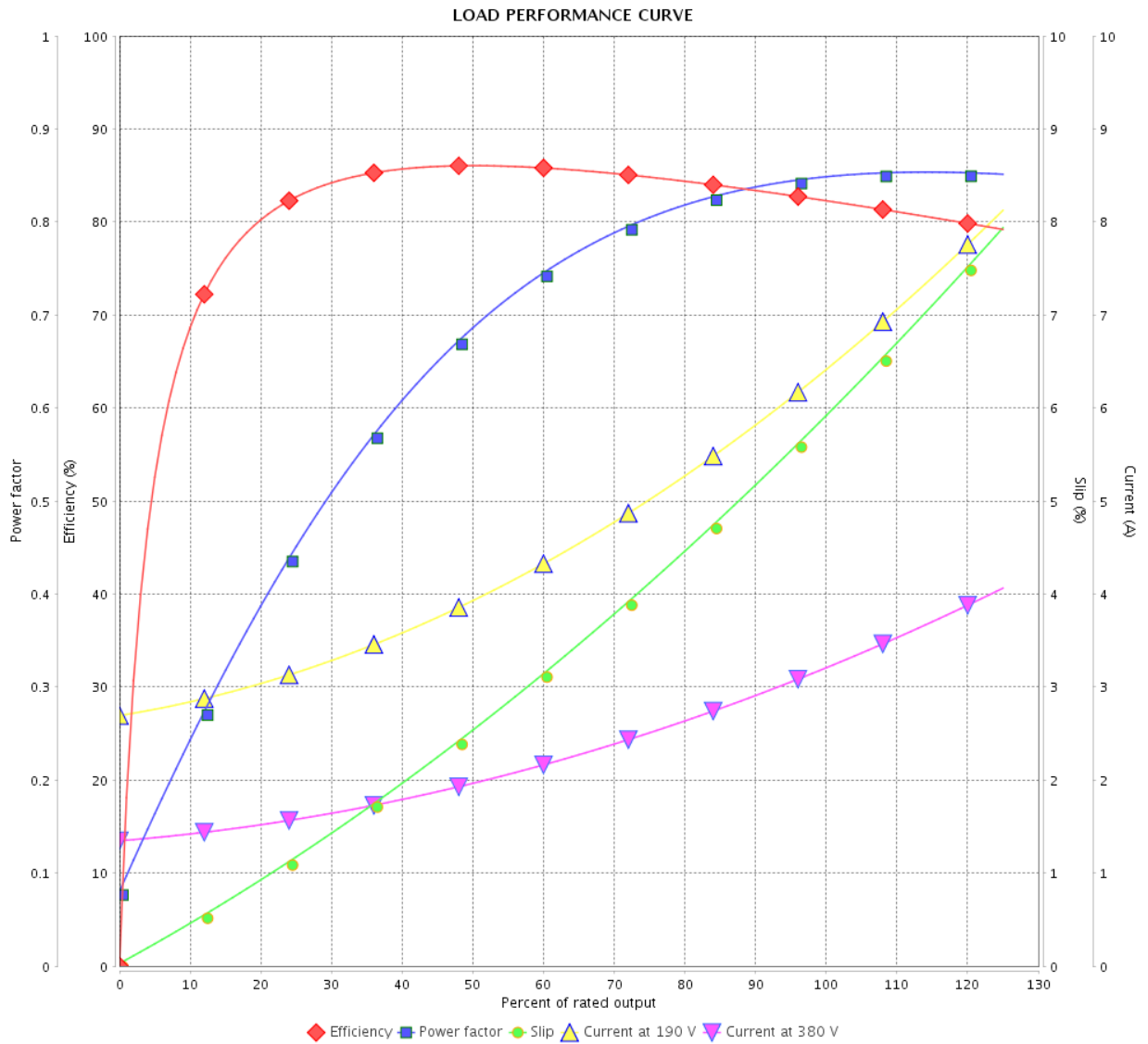
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase

Product code : 13737500



Performance : 190/380 V 50 Hz 4P

Rated current : 6.52/3.26 A  
 LRC : 5.6  
 Rated torque : 1.03 kgfm  
 Locked rotor torque : 200 %  
 Breakdown torque : 229 %  
 Rated speed : 1410 rpm

Moment of inertia (J) : 0.0049 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 105 K  
 Design : A

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# LOAD PERFORMANCE CURVE

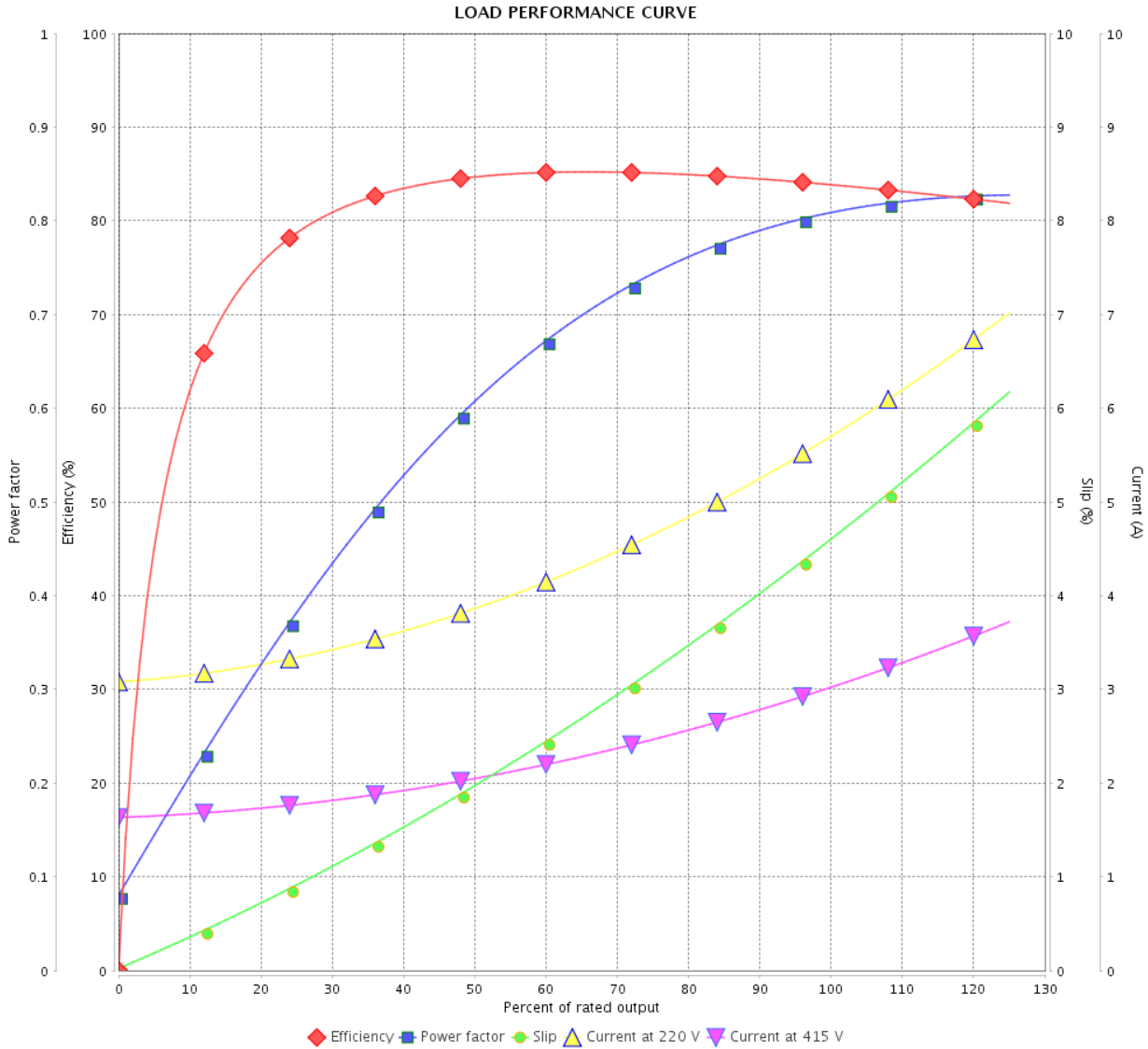
Three Phase Induction Motor - Squirrel Cage



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

Product line : Three-Phase

Product code : 13737500



Performance : 220/415 V 50 Hz 4P

Rated current : 5.79/3.07 A  
 LRC : 6.7  
 Rated torque : 1.02 kgfm  
 Locked rotor torque : 250 %  
 Breakdown torque : 280 %  
 Rated speed : 1430 rpm

Moment of inertia (J) : 0.0049 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
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