

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line : Multimounting IE3 Three-Phase		Product code : 13529699		
Frame	: 132M	Cooling method	: IC411 - TEFC	
Insulation class	: F	Mounting	: B3L(E)	
Duty cycle	: 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>	: 62.6 kg	
Protection degree	: IP55	Moment of inertia (J)	: 0.0252 kgm <sup>2</sup>	
Design	: N			
Output [HP]	10	10	10	
Poles	2	2	2	
Frequency [Hz]	50	50	60	
Rated voltage [V]	380	415	230/460	
Rated current [A]	14.3	13.8	24.6/12.3	
L. R. Amperes [A]	122	126	239/119	
LRC [A]	8.5	9.1	9.7	
No load current [A]	5.00	6.00	10.4/5.20	
Rated speed [RPM]	2935	2945	3550	
Slip [%]	2.17	1.83	1.39	
Rated torque [kgfm]	2.47	2.46	2.04	
Locked rotor torque [%]	220	270	300	
Breakdown torque [%]	300	370	400	
Service factor	1.25	1.25	1.25	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	21s (cold) 12s (hot)	18s (cold) 10s (hot)	23s (cold) 13s (hot)	
Noise level <sup>2</sup>	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	
Efficiency (%)	25%			
	50%	89.6	88.6	86.5
	75%	90.6	90.3	89.5
	100%	90.6	90.8	90.2
Power Factor	25%			
	50%	0.74	0.65	0.68
	75%	0.84	0.77	0.79
	100%	0.88	0.83	0.85
Bearing type	: Drive end 6308 ZZ Non drive end 6207 ZZ	Foundation loads		
Sealing	: V'Ring V'Ring	Max. traction	: 120 kgf	
Lubrication interval	: - -	Max. compression	: 182 kgf	
Lubricant amount	: - -			
Lubricant type	: Mobil Polyrex EM			
Notes				
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	Revision
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# LOAD PERFORMANCE CURVE

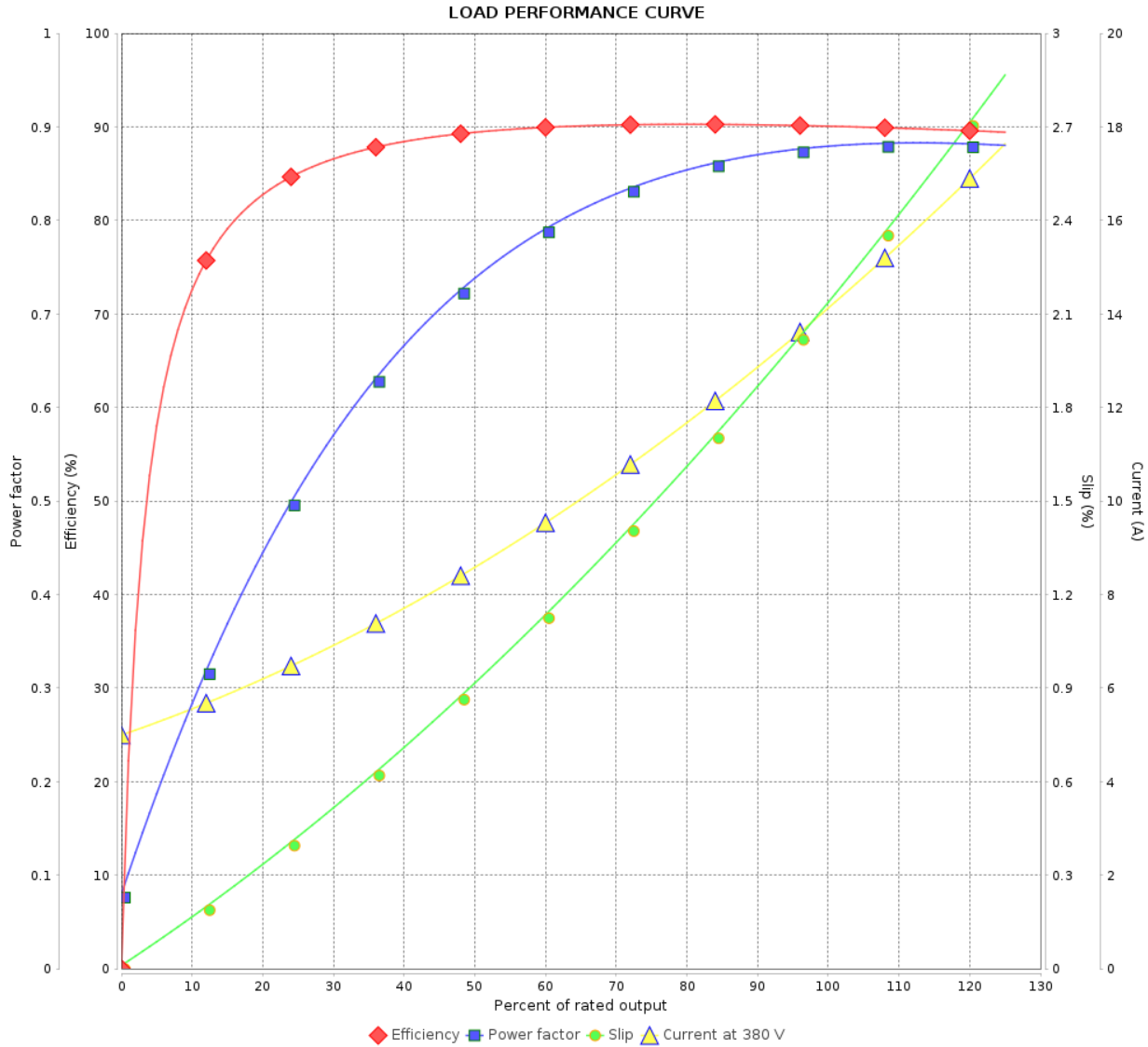
Three Phase Induction Motor - Squirrel Cage



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

Product line : Multimounting IE3 Three-Phase

Product code : 13529699



Performance : 380 V 50 Hz 2P

Rated current : 14.3 A  
 LRC : 8.5  
 Rated torque : 2.47 kgfm  
 Locked rotor torque : 220 %  
 Breakdown torque : 300 %  
 Rated speed : 2935 rpm

Moment of inertia (J) : 0.0252 kgm<sup>2</sup>  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : N

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# LOAD PERFORMANCE CURVE

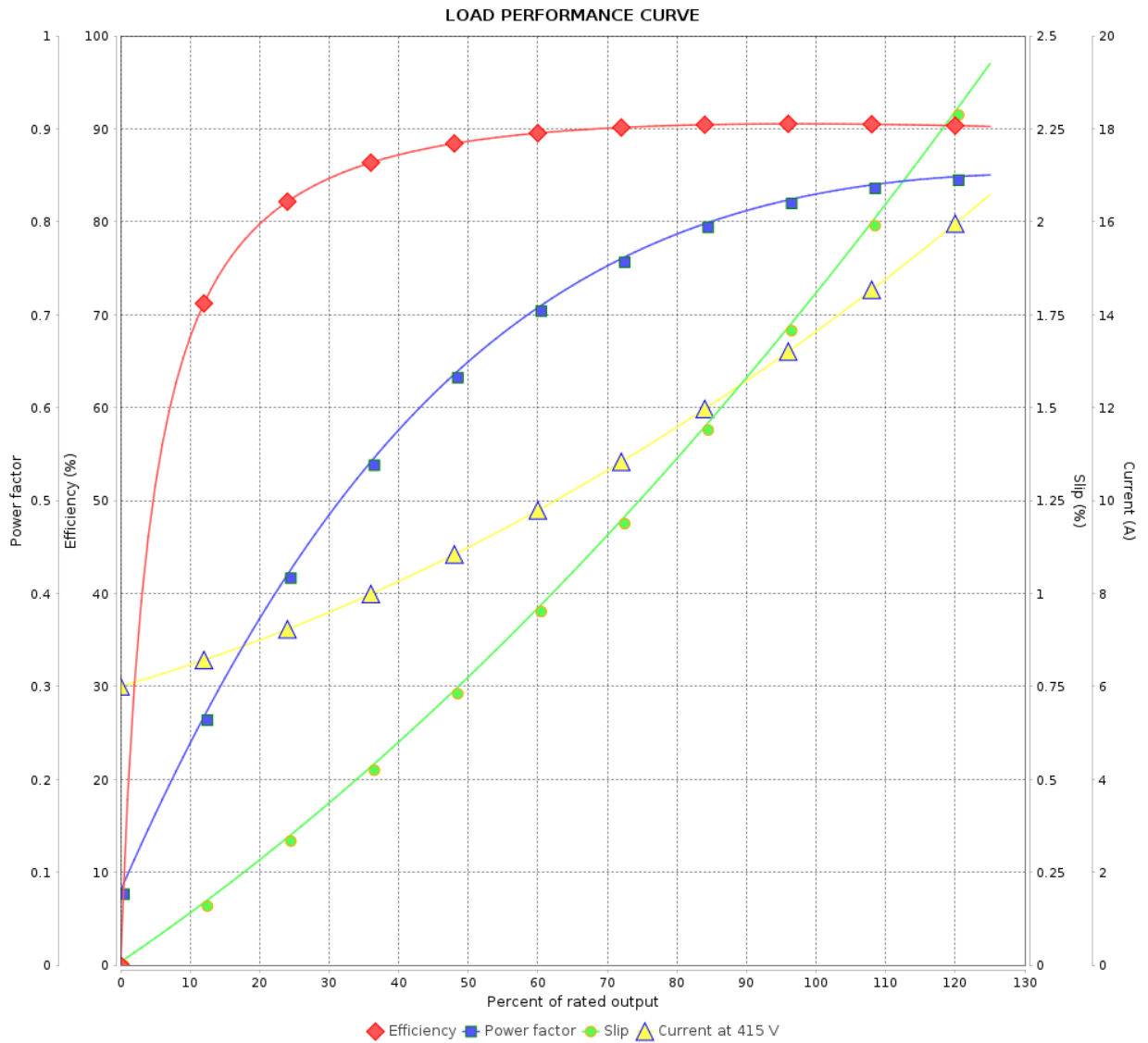
Three Phase Induction Motor - Squirrel Cage



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

Product line : Multimounting IE3 Three-Phase

Product code : 13529699



Performance : 415 V 50 Hz 2P

Rated current : 13.8 A  
 LRC : 9.1  
 Rated torque : 2.46 kgfm  
 Locked rotor torque : 270 %  
 Breakdown torque : 370 %  
 Rated speed : 2945 rpm

Moment of inertia (J) : 0.0252 kgm<sup>2</sup>  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : N

Rev.	Changes Summary	Performed	Checked	Date
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# LOAD PERFORMANCE CURVE

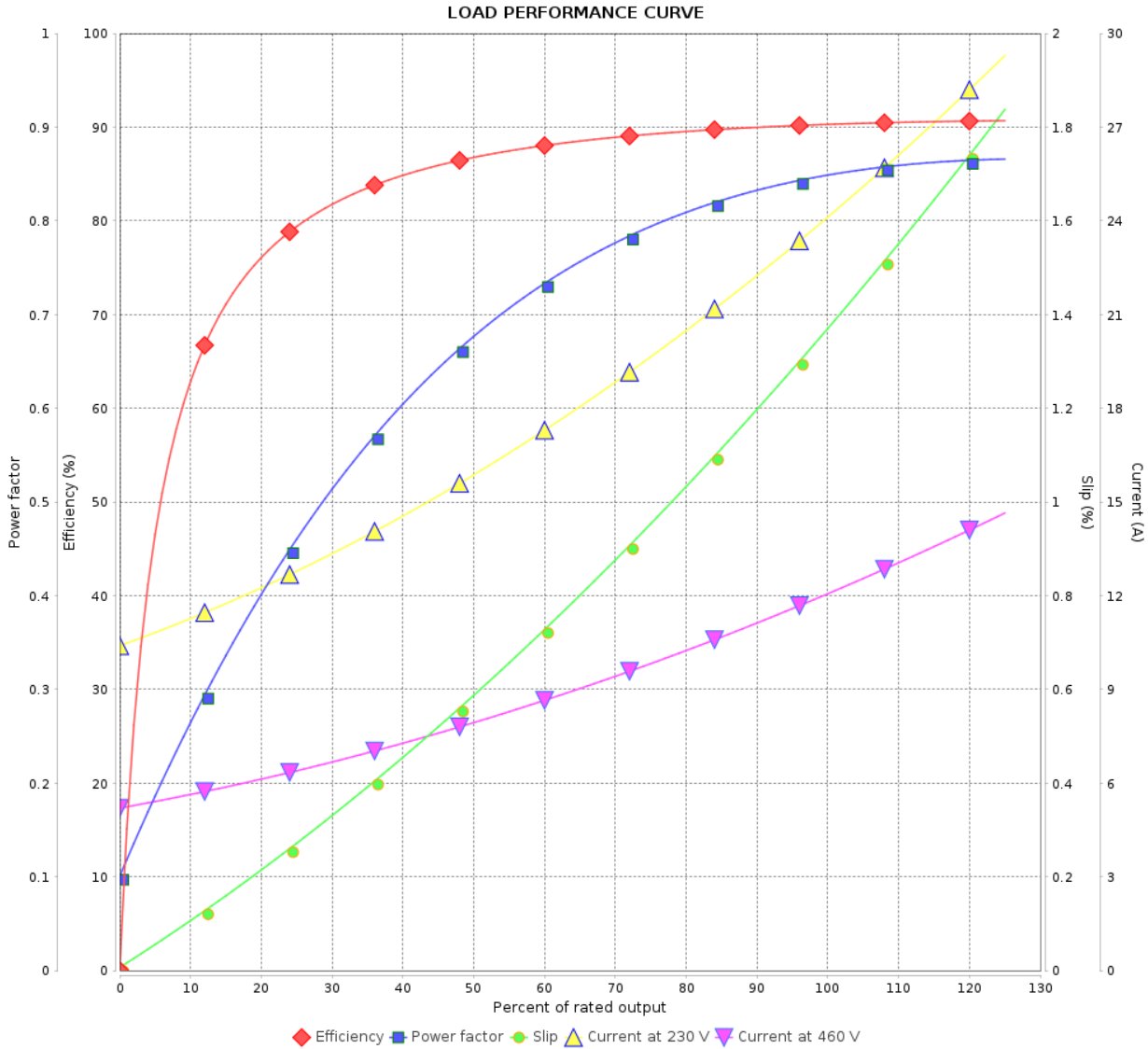
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase

Product code : 13529699



Performance : 230/460 V 60 Hz 2P

Rated current : 24.6/12.3 A  
 LRC : 9.7  
 Rated torque : 2.04 kgfm  
 Locked rotor torque : 300 %  
 Breakdown torque : 400 %  
 Rated speed : 3550 rpm

Moment of inertia (J) : 0.0252 kgm<sup>2</sup>  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : N

Rev.	Changes Summary	Performed	Checked	Date
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