### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Tru-Metric IE3 Three-Phase Product code: 13135523 Frame : 132M/L Cooling method : IC411 - TEFC Insulation class Mounting : B3L(E) : F 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> : 90.5 kg Protection degree : IP55 Moment of inertia (J) : 0.0755 kgm<sup>2</sup> Design : N 7.5 Output [HP] 7.5 7.5 Poles 6 6 6 Frequency [Hz] 50 50 60 Rated voltage [V] 380 415 230/460 Rated current [A] 12.7 12.6 21.6/10.8 L. R. Amperes [A] 88.9 88.2 171/85.3 LRC [A] 7.0 7.0 7.9 12.8/6.40 No load current [A] 6.20 7.20 Rated speed [RPM] 970 1170 960 Slip [%] 4.00 3.00 2.50 Rated torque [kgfm] 5.67 5.61 4.65 Locked rotor torque [%] 220 240 280 Breakdown torque [%] 229 290 320 Service factor 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K Locked rotor time 46s (cold) 26s (hot) 46s (cold) 26s (hot) 57s (cold) 32s (hot) Noise level<sup>2</sup> 53.0 dB(A) 53.0 dB(A) 55.0 dB(A) 25% 50% 87.4 85.8 85.5 Efficiency (%) 75% 87.7 88.3 88.5 100% 88.0 0.88 91.0 25% 0.55 0.47 0.48 50% Power Factor 75% 0.68 0.61 0.61 100% 0.75 0.69 0.70 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 12.9 12.9 9.4 10.3 P2 (0,5;1,0) 10.3 7.5 P3 (0,25;1,0) 9.4 9.4 6.8 Losses (%) P4 (0,9;0,5) 7.5 7.5 5.4 P5 (0,5;0,5) 5.1 5.1 3.7 P6 (0,5;0,25) 3.9 3.9 2.8 P7 (0,25;0,25) 2.8 2.8 2.0 Drive end Non drive end Foundation loads Bearing type 6308 ZZ 6207 ZZ Max. traction : 230 kgf V'Ring Sealing V'Rina : 320 kaf Max. compression Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end. MG-1. (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. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Revision

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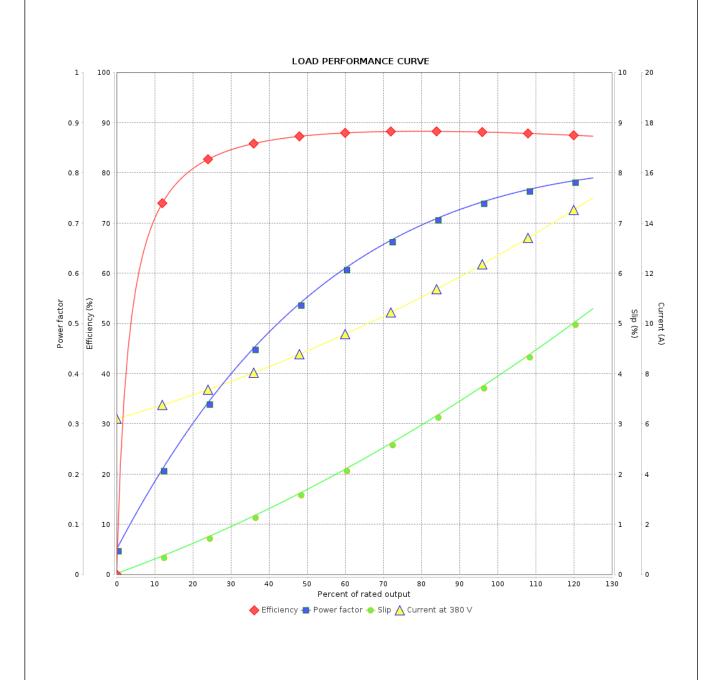
# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 13135523



Performance	: 380 V 50 Hz 6P						
Rated current	: 12.7 A	Moment of inertia (J)	: 0.0755 kgm²				
LRC	: 7.0	Duty cycle	: S1				
Rated torque	: 5.67 kgfm	Insulation class	: F				
Locked rotor torque	: 220 %	Service factor	: 1.25 : 80 K : N				
Breakdown torque	: 229 %	Temperature rise					
Rated speed	: 960 rpm	Design					
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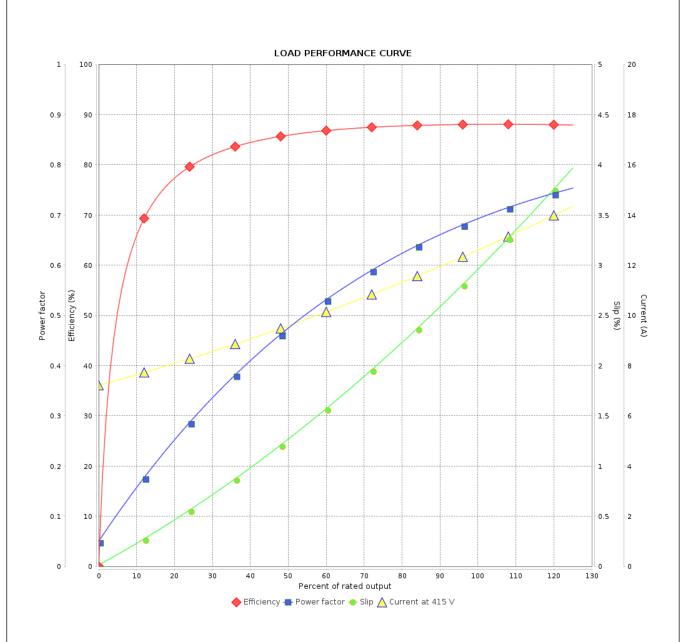
# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 13135523



Performance		: 415 V 50 Hz 6P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 12.6 A : 7.0 : 5.61 kgfm : 280 % : 290 % : 970 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0755 kgm : S1 : F : 1.25 : 80 K : N	2
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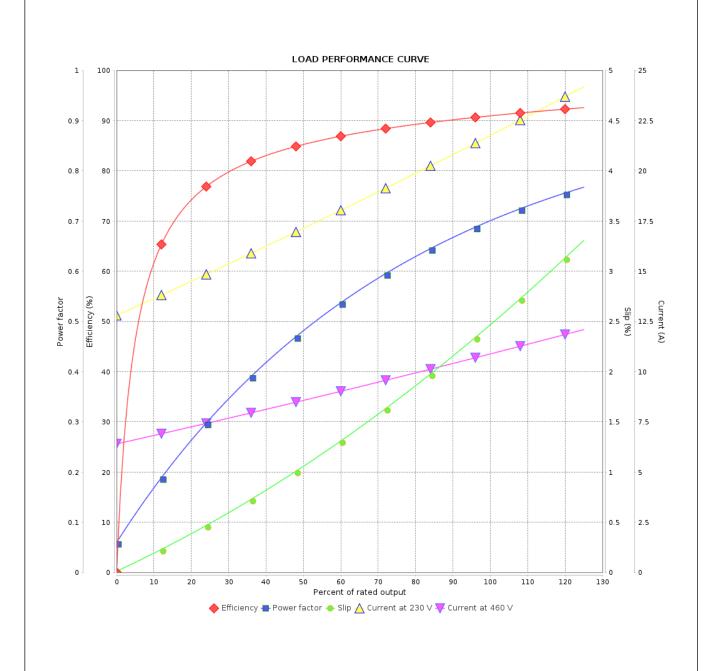
### LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 13135523



Performance	: 230/460 V 60 Hz 6P						
Rated current	: 21.6/10.8 A	Moment of inertia (J)		e : S1 class : F actor : 1.25			
LRC	: 7.9 Duty cyc		;				
Rated torque			class				
Locked rotor torque	: 240 %	: 240 % Service factor : 320 % Temperature rise : 1170 rpm Design					
Breakdown torque	: 320 %						
Rated speed	: 1170 rpm			: N			
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Date