### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Tru-Metric IE3 Three-Phase Product code: 12604658 Frame : 90L Cooling method : IC411 - TEFC Insulation class Mounting : F : 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> : 24.3 kg : 0.0026 kgm² Protection degree : IP55 Moment of inertia (J) Design : N 3 Output [HP] 3 Poles 2 2 2 Frequency [Hz] 50 50 60 Rated voltage [V] 380 415 230/460 Rated current [A] 4.52 4.37 7.70/3.85 L. R. Amperes [A] 32.1 35.0 70.1/35.0 LRC [A] 7.1 8.0 9.1 3.40/1.70 No load current [A] 1.65 2.05 Rated speed [RPM] 2840 3480 2875 Slip [%] 5.33 4.17 3.33 Rated torque [kgfm] 0.767 0.757 0.626 Locked rotor torque [%] 300 380 430 Breakdown torque [%] 380 459 310 Service factor 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K Locked rotor time 21s (cold) 12s (hot) 21s (cold) 12s (hot) 25s (cold) 14s (hot) Noise level<sup>2</sup> 62.0 dB(A) 62.0 dB(A) 68.0 dB(A) 25% 50% 86.5 85.3 84.0 Efficiency (%) 75% 86.4 86.4 85.5 100% 85.9 86.5 86.5 25% 0.70 0.61 0.64 50% Power Factor 75% 0.81 0.74 0.76 100% 0.86 0.81 0.83 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 15.2 14.4 14.4 P2 (0,5;1,0) 11.5 11.0 11.0 P3 (0,25;1,0) 11.0 10.5 10.5 7.8 Losses (%) P4 (0,9;0,5) 8.2 7.8 P5 (0,5;0,5) 5.0 4.7 4.7 3.5 P6 (0,5;0,25) 3.3 3.3 P7 (0,25;0,25) 2.3 2.1 2.1 Drive end Non drive end Foundation loads Bearing type 6205 ZZ 6204 ZZ Max. traction : 70 kgf V'Ring Sealing V'Rina : 94 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 Page Revision

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#### Three Phase Induction Motor - Squirrel Cage



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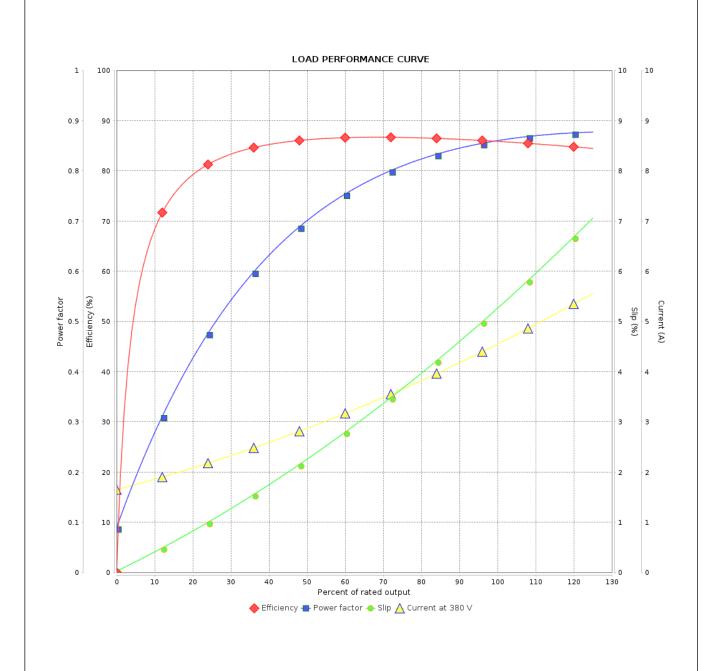
### Three Phase Induction Motor - Squirrel Cage



Customer :

Performed by

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12604658



Performance	: 380 V 50 Hz 2P				
Rated current LRC	: 4.52 A : 7.1	Moment of Duty cycle	of inertia (J)	: 0.0026 kgm	2
Rated torque	: 0.767 kgfm	Insulation	class	: F	
Locked rotor tord Breakdown torqu	: 300 % : 310 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed	: 2840 rpm	Design		: N	
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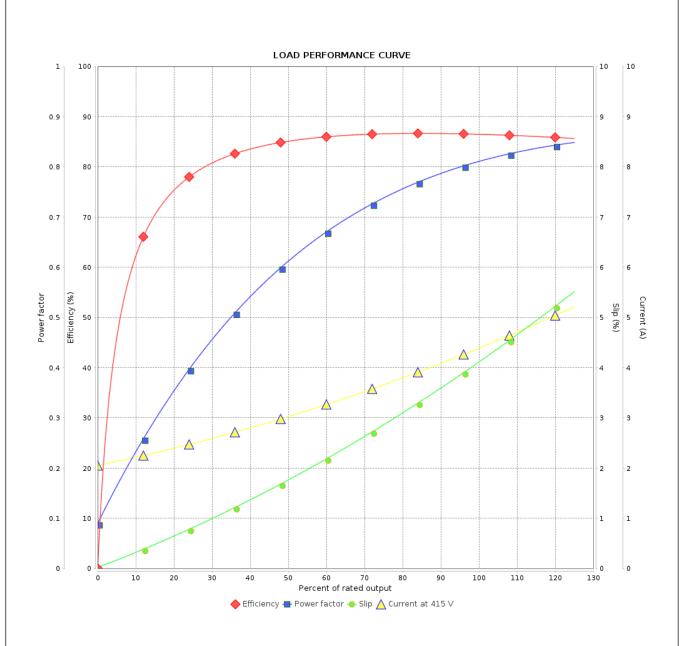
# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12604658



Performance	: 415 V 50 Hz 2P				
Rated current	: 4.37 A	Moment of inertia (J)		: 0.0026 kgm²	
LRC	: 8.0	Duty cycle		: S1	
Rated torque	: 0.757 kgfm	Insulation class		: F	
Locked rotor torque	: 380 %	Service factor		: 1.25	
Breakdown torque	: 380 %	Temperature rise		: 80 K	
Rated speed	: 2875 rpm	Design		: N	
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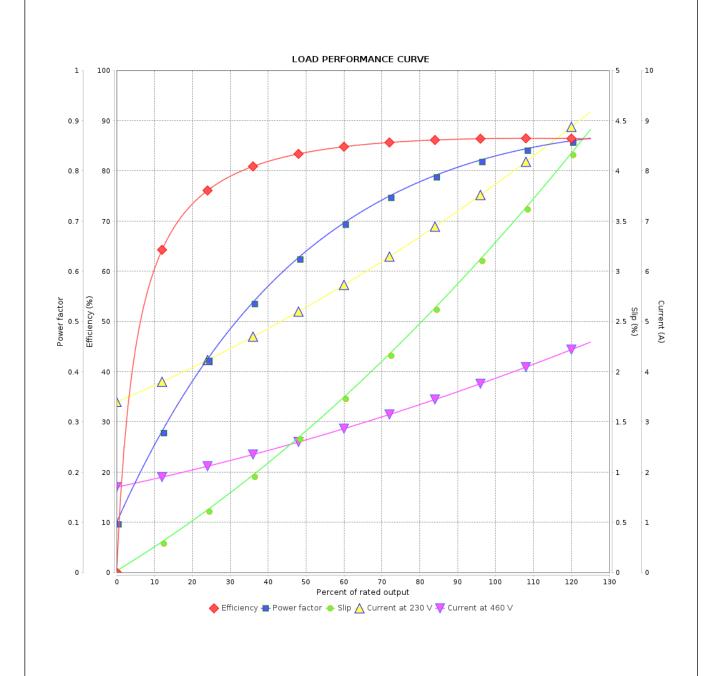
# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12604658



Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.70/3.85 A : 9.1 : 0.626 kgfm : 430 % : 459 % : 3480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0026 kgm² : S1 : F : 1.25 : 80 K : N	
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