### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Tru-Metric IE3 Three-Phase Product code: 14042037 : 132M Cooling method : IC411 - TEFC Frame Insulation class Mounting : B34L(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. weight3 : 82.7 kg Moment of inertia (J) Protection degree : IP55 : 0.0642 kgm<sup>2</sup> : N Design 10 Output [HP] 10 10 Poles 4 4 4 Frequency [Hz] 50 50 60 Rated voltage [V] 380 415 230/460 Rated current [A] 14.5 14.0 25.4/12.7 L. R. Amperes [A] 123 140 267/133 LRC [A] 10.0 10.5 8.5 No load current [A] 6.20 7.20 12.6/6.30 Rated speed [RPM] 1470 1770 1460 Slip [%] 2.67 2.00 1.67 Rated torque [kgfm] 4.97 4.94 4.10 Locked rotor torque [%] 220 270 280 Breakdown torque [%] 420 300 370 Service factor 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K Locked rotor time 23s (cold) 13s (hot) 21s (cold) 12s (hot) 27s (cold) 15s (hot) Noise level<sup>2</sup> 56.0 dB(A) 56.0 dB(A) 58.0 dB(A) 25% 91.0 90.5 90.2 50% Efficiency (%) 75% 91.5 91.4 91.0 100% 91.2 91.7 91.7 25% 0.70 0.64 0.65 50% Power Factor 75% 0.81 0.76 0.76 100% 0.86 0.81 0.81 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 9.4 8.8 8.8 P2 (0,5;1,0) 7.4 7.0 7.0 P3 (0,25;1,0) 6.8 6.3 6.3 Losses (%) P4 (0,9;0,5) 5.6 5.2 5.2 P5 (0,5;0,5) 3.7 3.5 3.5 P6 (0,5;0,25) 2.8 2.7 2.7 P7 (0,25;0,25) 1.8 1.9 1.8 Drive end Non drive end Foundation loads Bearing type 6308 ZZ 6207 ZZ : 277 kgf Max traction V'Ring V'Ring Sealing : 360 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. Rev. **Changes Summary** Performed Checked Date

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# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



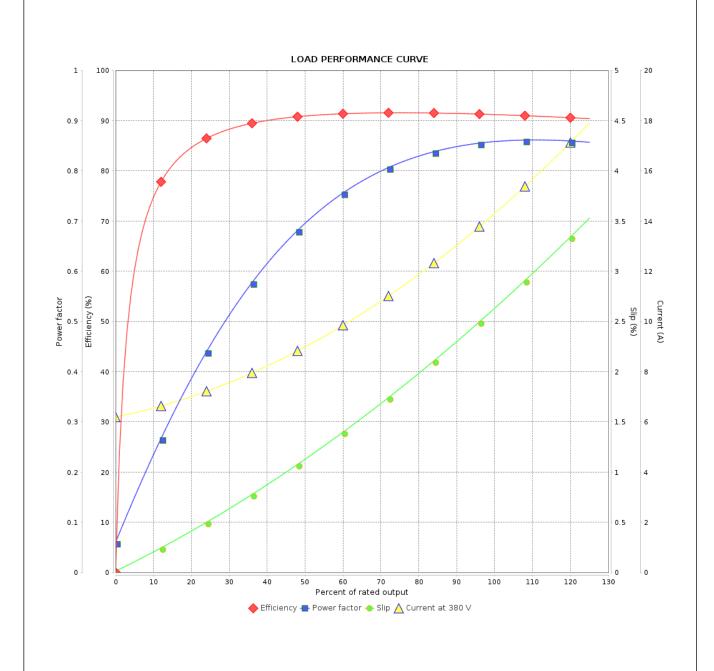
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14/01/2024

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 14042037



Performance	: 380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0642 kgm² : S1 : F : 1.25 : 80 K : N	
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# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



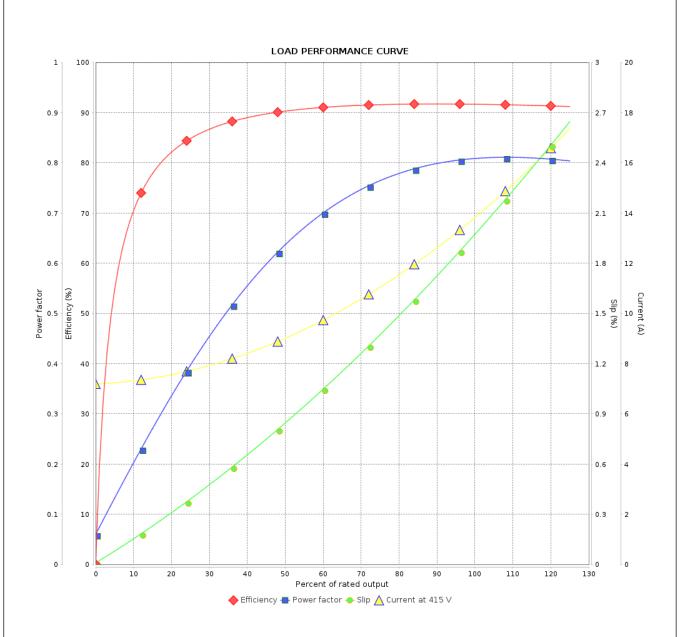
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Product line : W22 Tru-Metric IE3 Three-Phase Product code : 14042037



Performance	: 415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 14.0 A : 10.0 : 4.94 kgfm : 280 % : 370 % : 1470 rpm	Duty cyc Insulatio Service	on class	: 0.0642 kgm² : S1 : F : 1.25 : 80 K : N	
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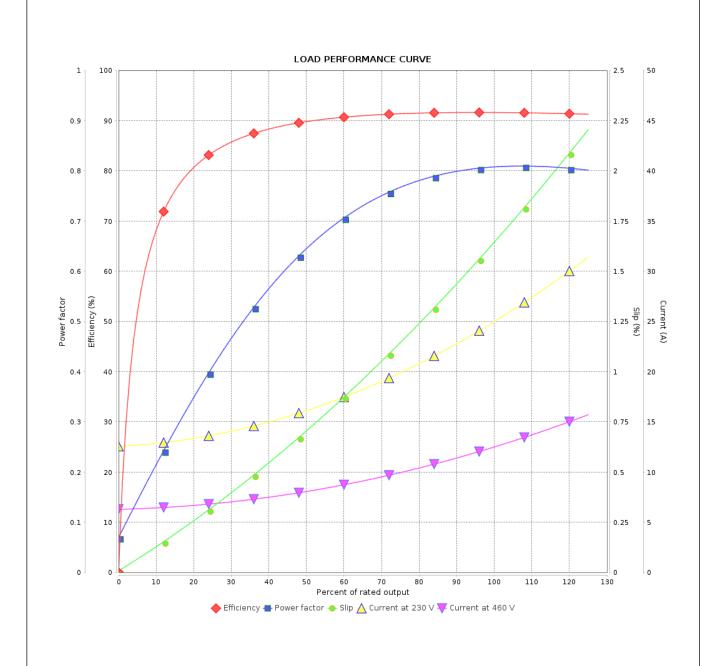
### LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 14042037



Performance	: 2	30/460 V 60 Hz 4P				
LRC :1		5.4/12.7 A 0.5	Duty cycle	Moment of inertia (J) Duty cycle		
Locked rotor torque : Breakdown torque :		.10 kgfm 70 % 20 %	Insulation class Service factor Temperature rise		: F : 1.25 : 80 K	
		770 rpm Design		: N		
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