### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Tru-Metric IE3 Three-Phase Product code: 12864345 Frame : 200L 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. weight3 : 263 kg Protection degree : IP55 Moment of inertia (J) : 0.2119 kgm<sup>2</sup> Design : N 50 Output [HP] 50 50 Poles 2 2 2 Frequency [Hz] 50 50 60 Rated voltage [V] 380 415 230/460 Rated current [A] 69.8 67.8 120/59.8 L. R. Amperes [A] 544 576 1136/568 LRC [A] 7.8 8.5 9.5 No load current [A] 22.6 27.6 48.4/24.2 Rated speed [RPM] 2970 3575 2965 Slip [%] 1.17 1.00 0.69 Rated torque [kgfm] 12.2 12.2 10.2 Locked rotor torque [%] 270 350 310 Breakdown torque [%] 290 340 370 Service factor 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K Locked rotor time 18s (cold) 10s (hot) 16s (cold) 9s (hot) 21s (cold) 12s (hot) Noise level<sup>2</sup> 72.0 dB(A) 72.0 dB(A) 76.0 dB(A) 25% 50% 92.8 92.8 91.7 Efficiency (%) 75% 93.1 93.1 93.0 100% 93.7 93.7 93.6 25% 0.75 0.64 0.67 50% Power Factor 75% 0.83 0.76 0.77 100% 0.86 0.81 0.83 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 6.3 6.3 6.5 P2 (0,5;1,0) 4.4 4.4 4.5 P3 (0,25;1,0) 3.8 3.8 3.8 Losses (%) P4 (0,9;0,5) 4.1 4.1 4.1 P5 (0,5;0,5) 2.3 2.3 2.3 P6 (0,5;0,25) 1.8 1.8 1.8 P7 (0,25;0,25) 1.0 1.0 1.1 Drive end Non drive end Foundation loads Bearing type 6312 C3 6212 C3 Max. traction : 341 kgf Sealing V'Rina V'Rina : 603 kaf Max. compression Lubrication interval 12000 h 15000 h Lubricant amount 21 g 13 g 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.

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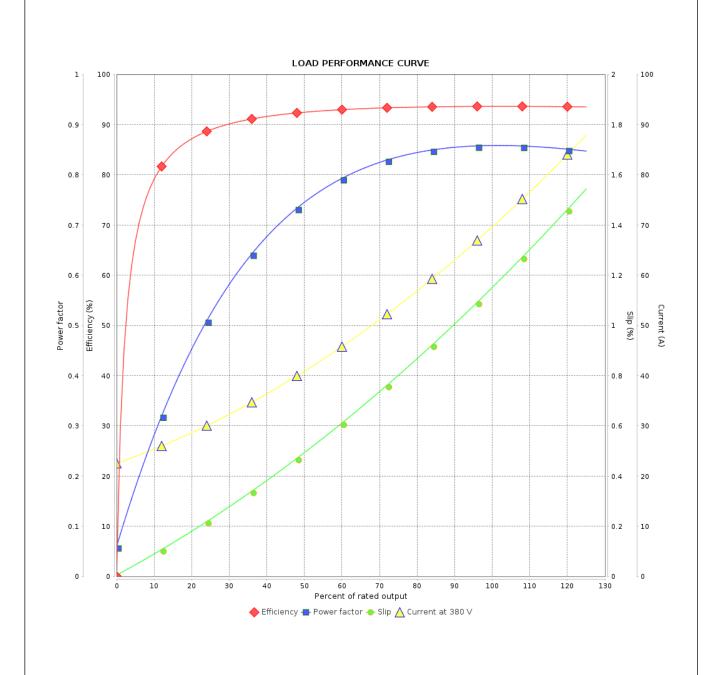
# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12864345



Performance	: 380 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 69.8 A : 7.8 : 12.2 kgfm : 270 % : 290 % : 2965 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.2119 kgm² : S1 : F : 1.25 : 80 K : N	
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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



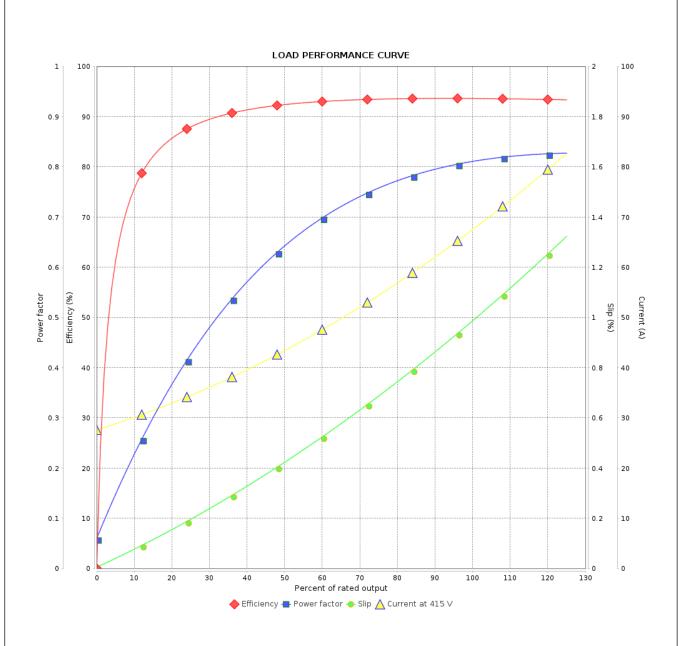
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Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12864345



	1					
Performance	: 4	115 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 8 : 1 que : 3 ue : 3	67.8 A 8.5 12.2 kgfm 810 % 840 % 2970 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 0.2119 kgm² : S1 : F : 1.25 : 80 K : N	
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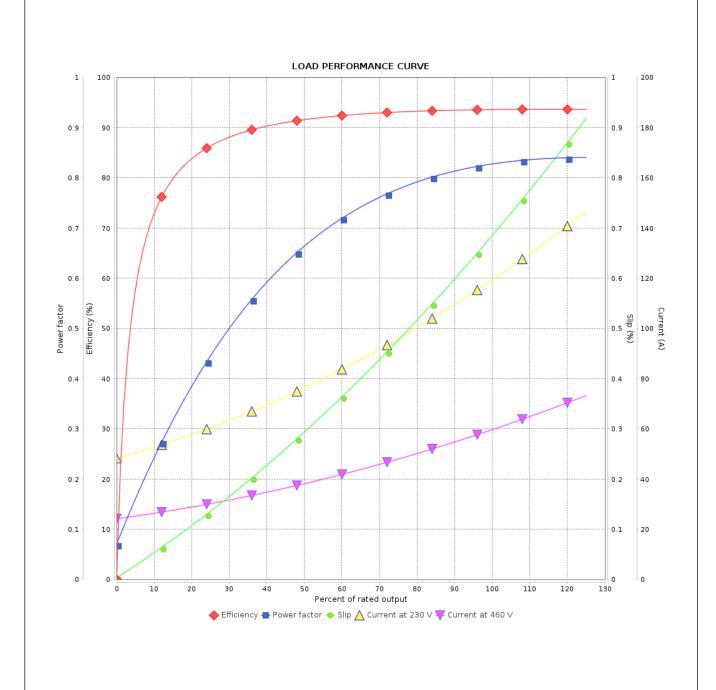
## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12864345



Performance	: 2	30/460 V 60 Hz 2P				
Rated current : 120/59.8 A LRC : 9.5 Rated torque : 10.2 kgfm Locked rotor torque : 350 % Breakdown torque : 370 % Rated speed : 3575 rpm		: 9.5 Duty cycle : 10.2 kgfm Insulation : 350 % Service fac		class actor	: 0.2119 kgm² : S1 : F : 1.25	
			Temperature rise Design		: 80 K : N	
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