### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Tru-Metric IE3 Three-Phase Product code: 13246836 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. weight<sup>3</sup> : 277 kg Protection degree : IP55 Moment of inertia (J) : 0.3994 kgm<sup>2</sup> Design : N 50 Output [HP] 50 50 Poles 4 4 4 Frequency [Hz] 50 50 60 Rated voltage [V] 380 415 230/460 Rated current [A] 71.3 68.5 121/60.7 L. R. Amperes [A] 499 548 1008/504 LRC [A] 7.0 8.0 8.3 No load current [A] 34.5 58.8/29.4 28.8 Rated speed [RPM] 1475 1480 1780 Slip [%] 1.67 1.33 1.11 Rated torque [kgfm] 24.5 24.6 20.4 Locked rotor torque [%] 320 260 360 Breakdown torque [%] 330 360 270 1.25 Service factor 1.25 1.25 Temperature rise 80 K 80 K 80 K Locked rotor time 25s (cold) 14s (hot) 25s (cold) 14s (hot) 32s (cold) 18s (hot) Noise level<sup>2</sup> 63.0 dB(A) 63.0 dB(A) 66.0 dB(A) 25% 50% 92.9 93.0 93.5 Efficiency (%) 75% 93.4 93.5 94.0 94.5 100% 93.9 94.0 25% 0.69 0.60 0.63 50% Power Factor 75% 0.79 0.73 0.75 100% 0.84 0.80 0.81 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 6.2 5.6 P2 (0,5;1,0) 4.8 4.7 4.3 3.7 P3 (0,25;1,0) 4.2 4.1 Losses (%) P4 (0,9;0,5) 3.7 3.6 3.3 P5 (0,5;0,5) 2.3 2.3 2.1 P6 (0,5;0,25) 1.8 1.8 1.6 P7 (0,25;0,25) 1.2 1.0 1.1 Drive end Non drive end Foundation loads Bearing type 6312 C3 6212 C3 Max. traction : 784 kgf Sealing V'Rina V'Rina : 1061 kaf Max. compression Lubrication interval 20000 h 20000 h Lubricant amount 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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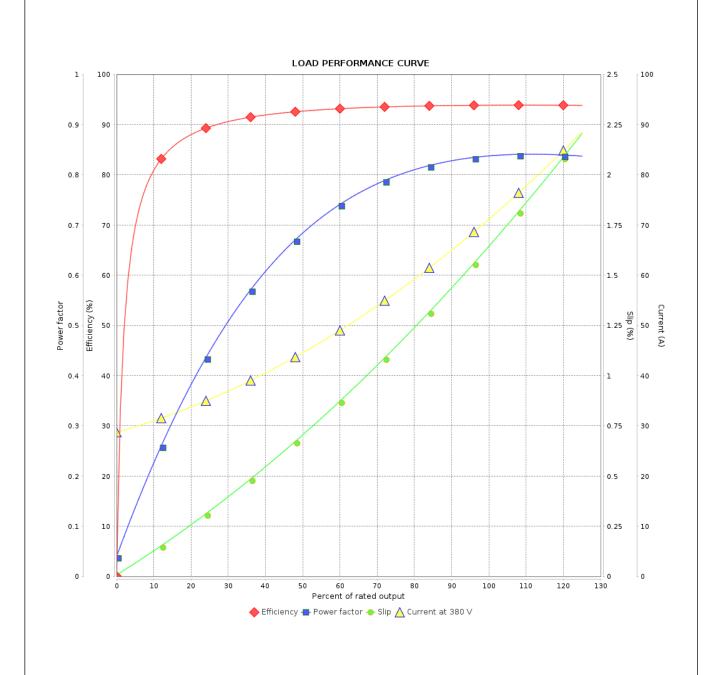
# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 13246836



Performance	: 380 V 50 Hz 4P				
Rated current	: 71.3 A	Moment of inertia (J)		: 0.3994 kgm²	
LRC	: 7.0	Duty cycle		: S1	
Rated torque	: 24.6 kgfm	Insulation class		: F	
Locked rotor torque	: 260 %	Service factor		: 1.25	
Breakdown torque	: 270 %	Temperature rise		: 80 K	
Rated speed	: 1475 rpm	Design		: N	
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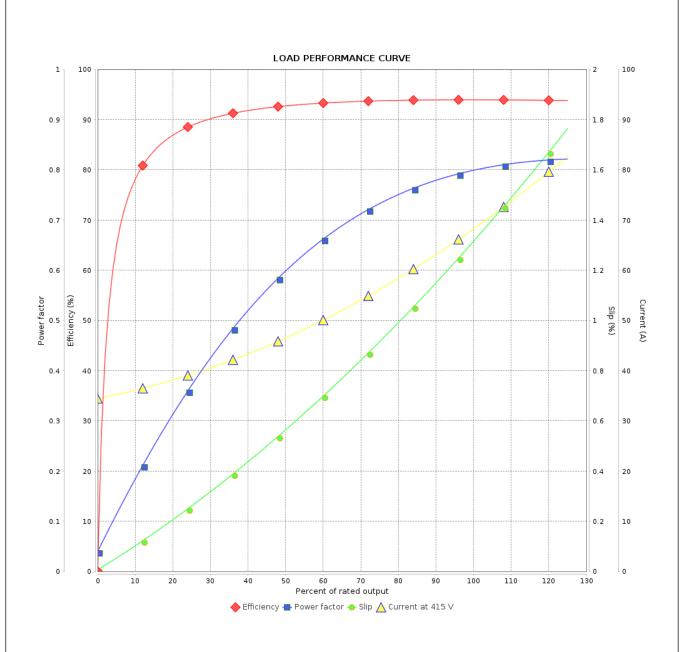
# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



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Customer	

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 13246836



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Performance	: 415 V 50 Hz 4P				
Rated current	: 68.5 A	Moment of inertia (J)		: 0.3994 kgm	2
LRC	: 8.0	Duty cycle		: S1	
Rated torque	: 24.5 kgfm	Insulation class		: F	
Locked rotor torqu	e : 320 %	Service factor		: 1.25	
Breakdown torque	: 330 %	Temperature rise		: 80 K	
Rated speed	: 1480 rpm	Design		: N	
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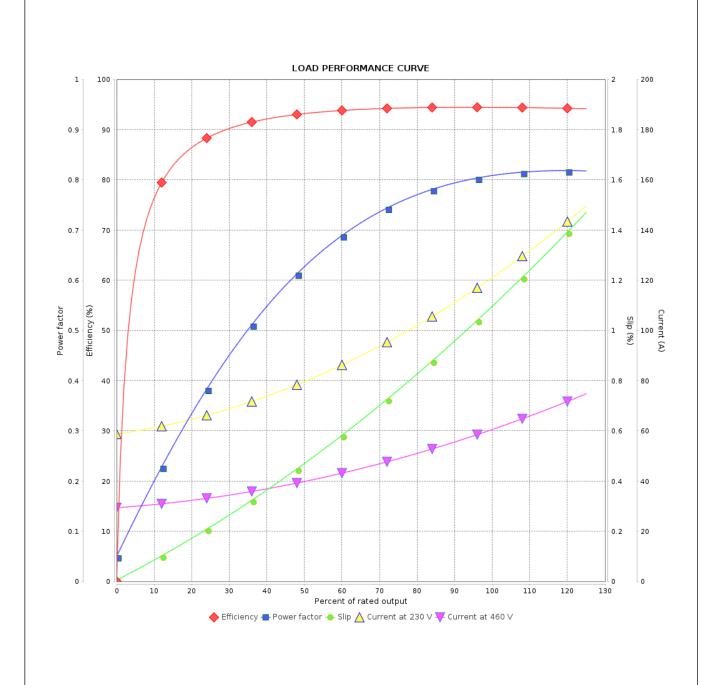
### LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 13246836



Performance	: 2:	30/460 V 60 Hz 4P					
Rated current : 1		21/60.7 A	Moment o	Moment of inertia (J)			
LRC : 8.		.3	Duty cycle	Duty cycle		: S1	
Rated torque : 2		0.4 kgfm	Insulation	Insulation class		: F	
Locked rotor torque : 3		60 %	Service fa	Service factor		: 1.25	
Breakdown torque		60 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 1	B0 rpm Design		: N			
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