### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Tru-Metric IE3 Three-Phase Product code: 12639654 : 80 Cooling method : IC411 - TEFC Frame Insulation class : F Mounting : 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> : 15.0 kg : 0.0015 kgm² Protection degree Moment of inertia (J) : IP55 Design : N Output [HP] 1.5 1.5 1.5 Poles 2 2 2 60 Frequency [Hz] 50 50 Rated voltage [V] 380 415 230/460 Rated current [A] 2.42 2.38 4.16/2.08 L. R. Amperes [A] 17.9 19.0 38.7/19.3 LRC [A] 7.4 8.0 9.3 2.40/1.20 No load current [A] 1.15 1.50 Rated speed [RPM] 2820 2855 3465 Slip [%] 3.75 6.00 4.83 Rated torque [kgfm] 0.386 0.381 0.314 Locked rotor torque [%] 340 409 480 Breakdown torque [%] 400 470 330 Service factor 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K Locked rotor time 52s (cold) 29s (hot) 48s (cold) 27s (hot) 48s (cold) 27s (hot) Noise level<sup>2</sup> 59.0 dB(A) 59.0 dB(A) 62.0 dB(A) 25% 50% 82.0 0.08 78.5 Efficiency (%) 75% 83.7 83.0 81.5 100% 83.1 83.4 84.0 25% 0.66 0.56 0.60 50% Power Factor 75% 0.77 0.68 0.71 100% 0.83 0.77 0.79 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 18.6 18.2 17.4 12.9 P2 (0,5;1,0) 13.1 12.3 P3 (0,25;1,0) 11.7 11.5 11.0 Losses (%) P4 (0,9;0,5) 12.5 12.2 11.7 P5 (0,5;0,5) 7.1 6.9 6.6 P6 (0,5;0,25) 5.6 5.3 P7 (0,25;0,25) 3.4 3.3 3.5 Drive end Non drive end Foundation loads Bearing type 6204 ZZ 6203 ZZ Max. traction : 39 kgf V'Ring V'Ring Sealing : 54 kaf Max. compression Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM 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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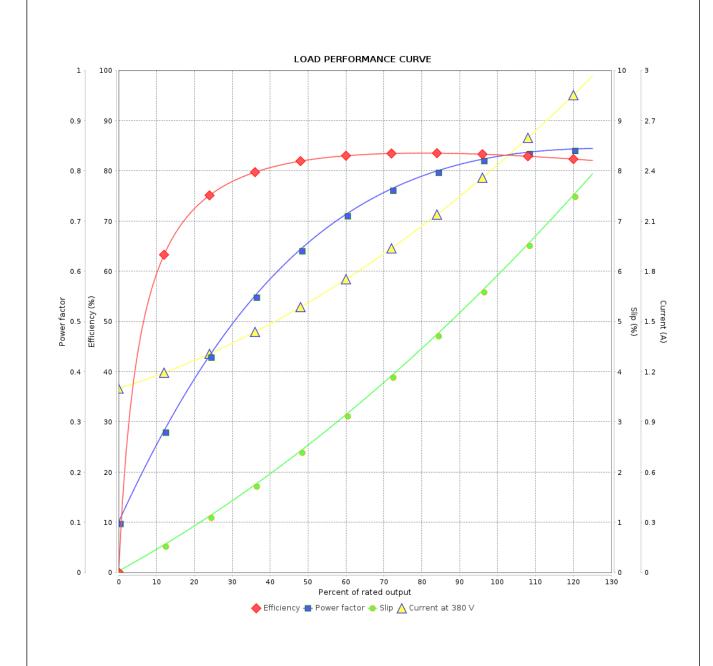
# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12639654



Performance	: 3	80 V 50 Hz 2P				
		42 A Moment of inertia (J)		: 0.0015 kgm² : S1		
LRC	C : 7.4		Duty cycle	Duty cycle		
Rated torque	: 0	.386 kgfm	Insulation	Insulation class		
Locked rotor torqu	torque : 340 % Service factor		ctor	: 1.25		
Breakdown torque : 3		30 %	Temperature rise		: 80 K	
Rated speed :		820 rpm Design		: N		
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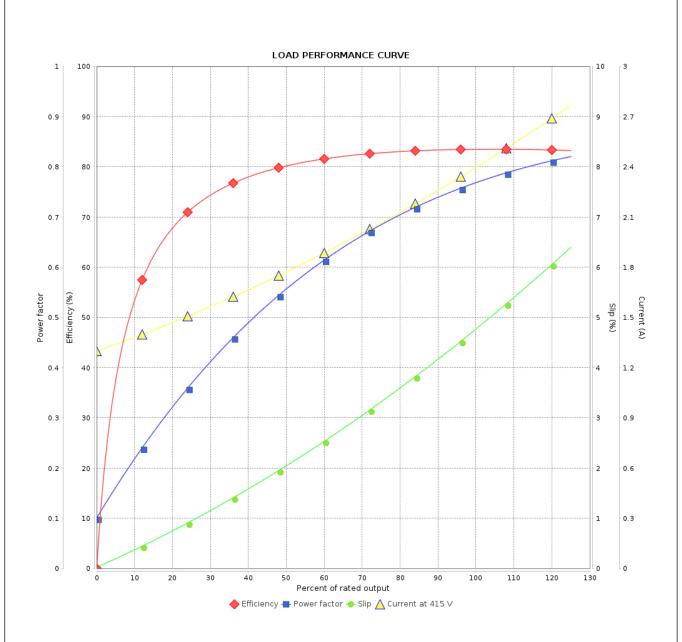
### LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12639654



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Performance	: 4	15 V 50 Hz 2P					
Rated current		.38 A	Moment of inertia (J)		: 0.0015 kgm²		
LRC : 8.0		.0	Duty cycle	Duty cycle			
Rated torque : 0.3		.381 kgfm	Insulation	Insulation class		: F	
Locked rotor tord	que : 4	09 %	Service fa	ctor	: 1.25		
Breakdown torqu	ue : 4	00 %	Temperati	ıre rise	: 80 K		
Rated speed	: 2	855 rpm	Design		: N		
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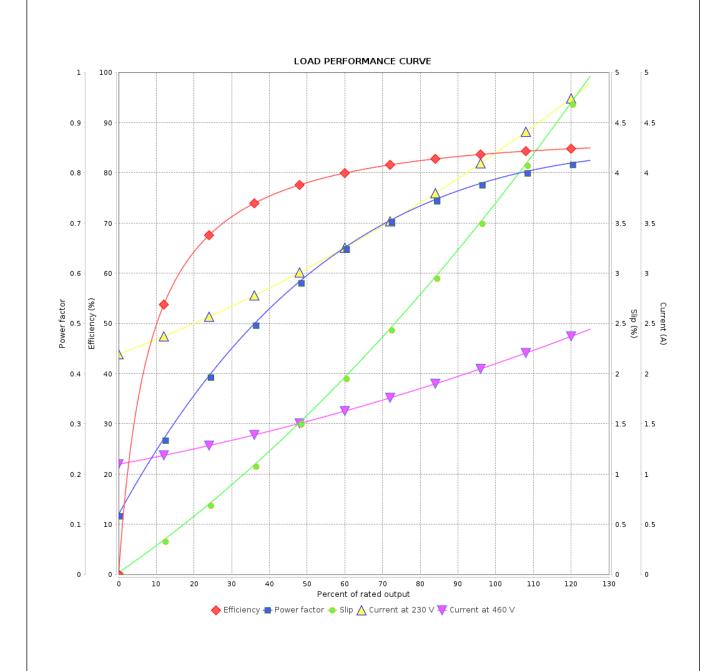
# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12639654



Performance	: 2	30/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 9 : 0 que : 4 ue : 4	.16/2.08 A .3 .314 kgfm 80 % 70 % 465 rpm	Duty cycle  14 kgfm Insulation class  9 % Service factor  Temperature rise		: 0.0015 kgm² : S1 : F : 1.25 : 80 K : N	
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