### **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 Tru-Metric IE3 Three-Phase Product code: 14658763 : 180M Cooling method : IC411 - TEFC Frame Mounting Insulation class : F : B35L(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> : 201 kg : 0.2001 kgm² Moment of inertia (J) Protection degree : IP55 : N Design 25 Output [HP] 25 25 Poles 4 4 4 Frequency [Hz] 50 50 60 Rated voltage [V] 380 415 230/460 Rated current [A] 36.1 34.7 61.2/30.6 L. R. Amperes [A] 264 285 520/260 LRC [A] 7.3 8.2 8.5 No load current [A] 14.0 16.5 28.0/14.0 Rated speed [RPM] 1470 1475 1777 Slip [%] 2.00 1.67 1.28 Rated torque [kgfm] 12.3 12.3 10.2 Locked rotor torque [%] 250 300 320 Breakdown torque [%] 360 270 330 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) 34s (cold) 19s (hot) Noise level<sup>2</sup> 61.0 dB(A) 61.0 dB(A) 63.0 dB(A) 25% 92.3 91.0 50% 91.8 Efficiency (%) 75% 92.6 92.8 92.4 100% 92.6 92.7 93.6 25% 0.68 0.61 0.62 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) 7.6 7.5 6.5 P2 (0,5;1,0) 5.9 5.8 5.0 P3 (0,25;1,0) 5.3 5.2 4.5 Losses (%) P4 (0,9;0,5) 4.4 4.3 3.7 P5 (0,5;0,5) 2.8 2.8 2.4 P6 (0,5;0,25) 2.1 2.0 1.8 P7 (0,25;0,25) 1.3 1.2 Drive end Non drive end Foundation loads Bearing type 6311 C3 6211 C3 : 426 kgf Max traction Sealing V'Rina V'Rina : 627 kgf Max. compression Lubrication interval 20000 h 20000 h Lubricant amount 11 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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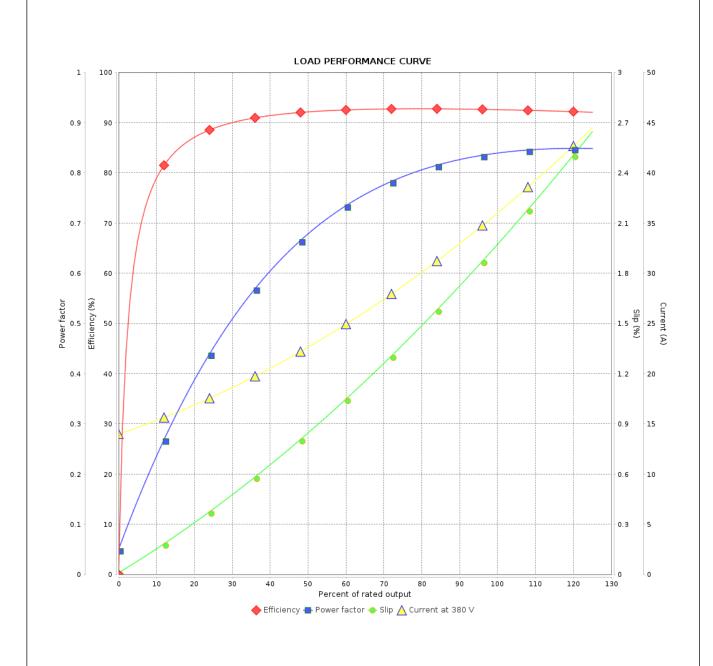
# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 14658763



Performance	: 38	80 V 50 Hz 4P					
Rated current : 36		Moment of inertia (J)		: 0.2001 kgm²			
LRC	: 7.	.3	Duty cycle		: S1		
Rated torque	: 12	2.3 kgfm	Insulation class		: F		
Locked rotor tord	que : 2	50 %	Service fa	Service factor		: 1.25	
Breakdown torque : 27		70 %	Temperati	Temperature rise		: 80 K	
Rated speed : 1470		470 rpm	Design	Design			
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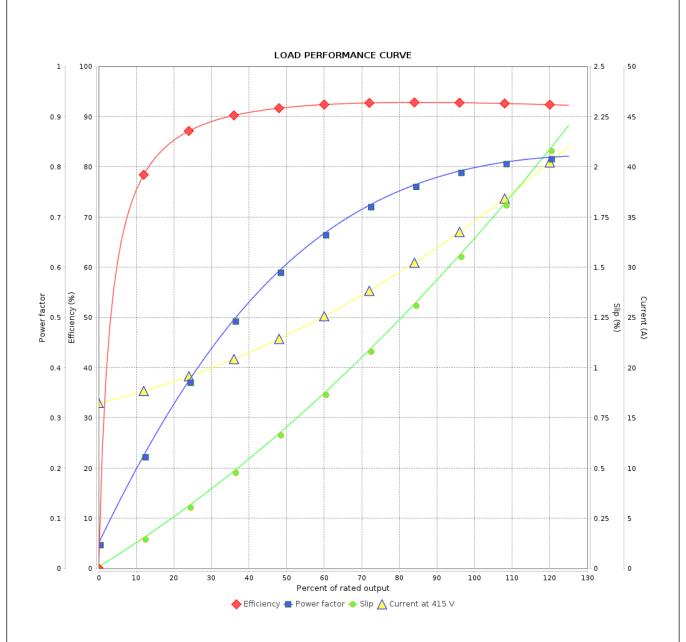
# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 14658763



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Performance	: 415 V 50 Hz 4P				
Rated current	: 34.7 A	Moment of inertia (J)		: 0.2001 kgm²	
LRC	: 8.2	Duty cycle		: S1	
Rated torque	: 12.3 kgfm	Insulation class		: F	
Locked rotor torque	: 300 %	Service factor		: 1.25	
Breakdown torque	: 330 %	Temperature rise		: 80 K	
Rated speed	: 1475 rpm	Design		: N	
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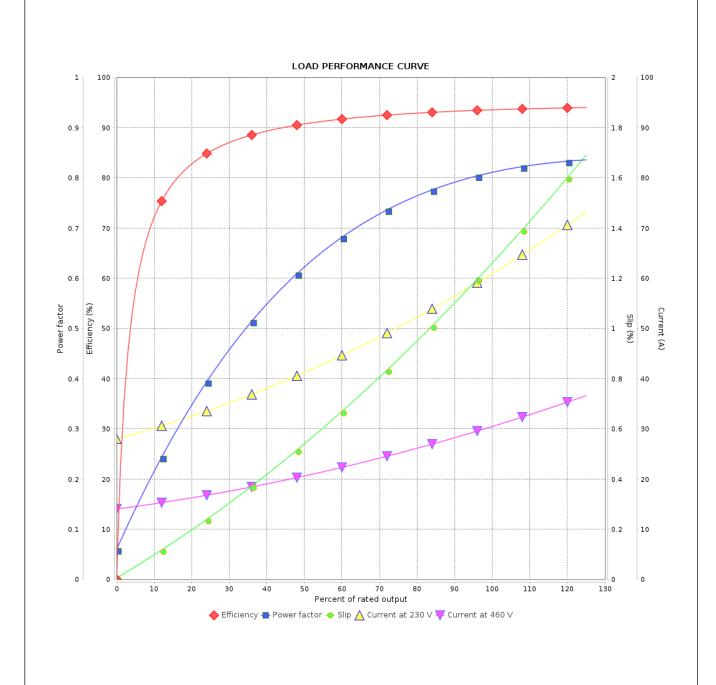
### LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 14658763



Performance	: 2	30/460 V 60 Hz 4P					
Rated current		1.2/30.6 A Moment of inertia (J)		: 0.2001 kgm²			
LRC	: 8		Duty cycle	Duty cycle		: S1	
Rated torque	: 1	0.2 kgfm	Insulation	Insulation class		: F	
Locked rotor torq	ue : 3	20 %	Service fa	Service factor		: 1.25	
Breakdown torqu	ie : 3	: 360 % Temperature : 1777 rpm Design		ure rise	: 80 K		
Rated speed	: 1				: N		
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