### **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 Tru-Metric IE3 Three-Phase Product code: 15058461 : 90S 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> : 21.5 kg Moment of inertia (J) : 0.0020 kgm<sup>2</sup> Protection degree : IP55 : N Design Output [HP] Poles 2 2 2 Frequency [Hz] 50 50 60 Rated voltage [V] 380 415 230/460 Rated current [A] 3.22 3.18 5.50/2.75 L. R. Amperes [A] 24.5 25.4 51.7/25.9 LRC [A] 7.6 8.0 9.4 3.00/1.50 No load current [A] 1.43 1.80 Rated speed [RPM] 2870 2895 3505 Slip [%] 4.33 3.50 2.64 Rated torque [kgfm] 0.506 0.501 0.414 290 Locked rotor torque [%] 220 260 Breakdown torque [%] 300 360 250 Service factor 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K Locked rotor time 27s (cold) 15s (hot) 27s (cold) 15s (hot) 28s (cold) 16s (hot) Noise level<sup>2</sup> 62.0 dB(A) 62.0 dB(A) 68.0 dB(A) 25% 82.0 50% 81.5 81.0 Efficiency (%) 75% 83.5 83.5 84.0 100% 84.2 84.2 85.5 25% 0.67 0.57 0.61 50% Power Factor 75% 0.78 0.70 0.73 100% 0.84 0.78 0.80 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 17.1 17.1 15.5 P2 (0,5;1,0) 13.1 13.1 11.9 P3 (0,25;1,0) 13.4 13.4 12.1 Losses (%) P4 (0,9;0,5) 10.4 10.4 9.4 6.4 P5 (0,5;0,5) 6.4 5.8 P6 (0,5;0,25) 5.0 5.0 4.5 P7 (0,25;0,25) 3.4 3.1 Drive end Non drive end Foundation loads Bearing type 6205 ZZ 6204 ZZ : 31 kgf Max traction V'Ring V'Ring Sealing : 53 kgf 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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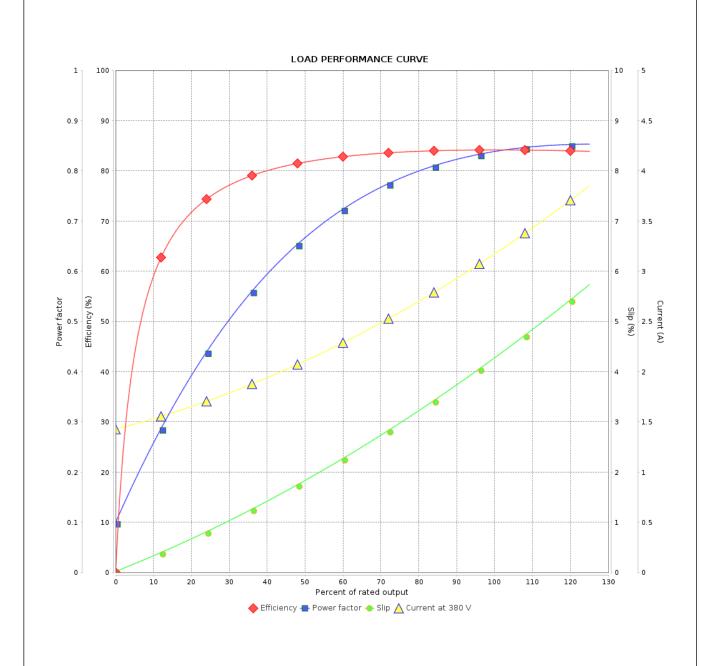
# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 15058461



Performance	: 380 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.22 A : 7.6 : 0.506 kgfm : 220 % : 250 % : 2870 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0020 kgm² : S1 : F : 1.25 : 80 K : N	
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### LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



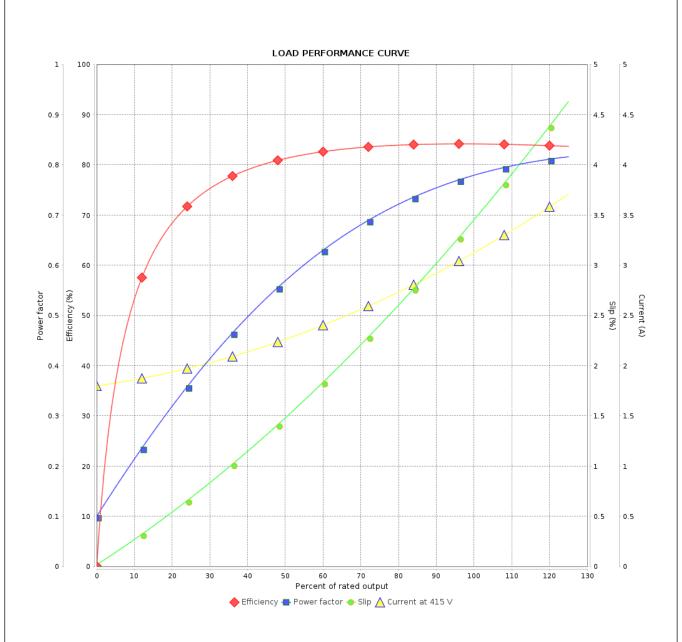
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Product line : W22 Tru-Metric IE3 Three-Phase Product code : 15058461



Performance	: 415 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 3.18 A : 8.0 : 0.501 kgfm : 260 % : 300 % : 2895 rpm	Moment of Duty cycl Insulation Service far Temperat Design	ı class actor	: 0.0020 kgm² : S1 : F : 1.25 : 80 K : N	
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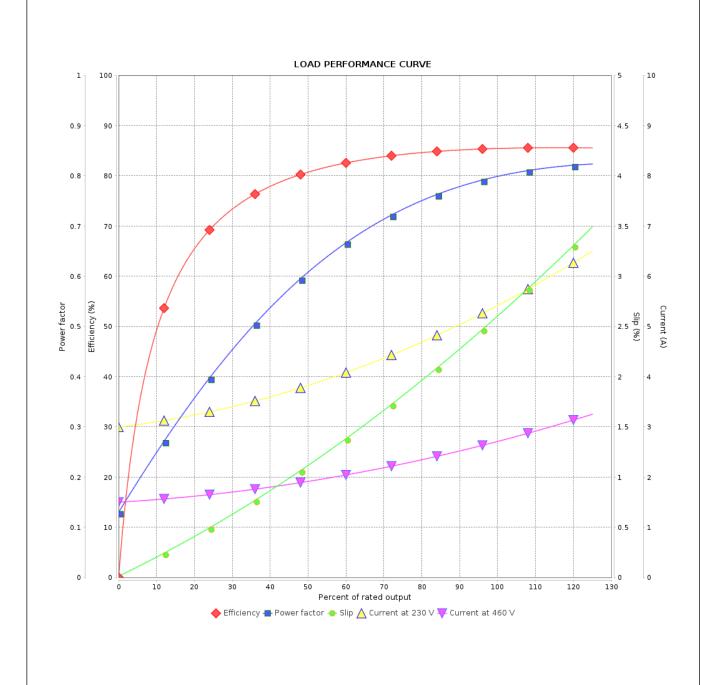
# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 15058461



Performance	: 2	30/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 9 : 0 que : 29 ie : 30	50/2.75 A .4 .414 kgfm 90 % 60 % 505 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0020 kgm² : S1 : F : 1.25 : 80 K : N	
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