## **DATA SHEET**

Checked by

Date

24/10/2024

## Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Tru-Metric IE3 Three-Phase Product code: 14514183 Frame :90S Locked rotor time : 27s (cold) 15s (hot) Output : 1.5 HP (1.1 kW) Temperature rise : 80 K Poles Duty cycle : S1 : 4 Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 230/460 V Altitude : 1000 m.a.s.l. Rated current : 4.10/2.05 A Protection degree : IP55 Cooling method : IC411 - TEFC L. R. Amperes : 34.8/17.4 A LRC : 8.5 Mounting : B35L(E) No load current : 2.43/1.22 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1755 rpm Noise level<sup>2</sup> : 51.0 dB(A) Slip : 2.50 % Starting method : Direct On Line Rated torque : 0.620 kgfm Approx. weight3 : 23.4 kg Locked rotor torque : 290 % Breakdown torque : 350 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.0055 kgm<sup>2</sup> Design : N Output 50% 75% 100% Foundation loads Efficiency (%) 0.08 84.0 86.5 Max. traction : 50 kgf **Power Factor** 0.57 0.70 0.78 : 73 kgf Max. compression Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) P2 (0,5;1,0) P3 (0,25;1,0) P4 (0,9;0,5) P5 (0,5;0,5) P6 (0,5;0,25) P7 (0,25;0,25) 14.6 11.9 12.2 8.6 6.0 4.7 3.4 Drive end Non drive end Bearing type 6205 ZZ 6204 ZZ V'Ring V'Ring Sealing Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type Notes 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. Rev. **Changes Summary** Performed Checked Date Performed by

Page

1/2

Revision

## LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



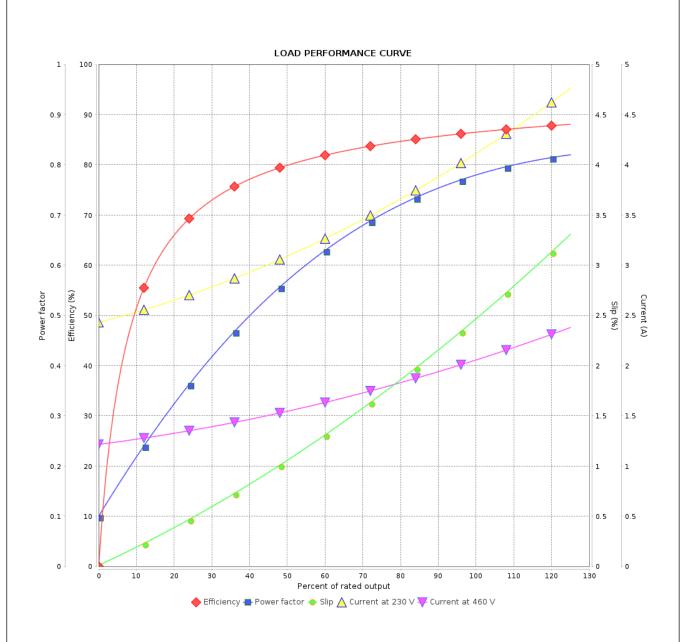
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Customer	

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Product line : W22 Tru-Metric IE3 Three-Phase Product code : 14514183



Performance		: 230/460 V 60 Hz 4F				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 4.10/2.05 A : 8.5 : 0.620 kgfm : 290 % : 350 % : 1755 rpm	Moment of Duty cycles Insulation Service for Temperate Design	class actor	: 0.0055 kgm² : S1 : F : 1.25 : 80 K : N	
Rev.	Changes Summary		Performed	Checked	Date	
Performed by						

Page

2/2

Revision

