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: 12082757 Frame Locked rotor time : 39s (cold) 22s (hot) : 160L Output : 20 HP (15 kW) Temperature rise : 80 K Poles Duty cycle : S1 : 4 Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 575 V Altitude : 1000 m.a.s.l. Rated current : 20.0 A Protection degree : IP55 Cooling method : IC411 - TEFC L. R. Amperes : 166 A LRC : 8.3 Mounting : B35L(E) No load current : 8.80 A Rotation¹ : Both (CW and CCW) Rated speed : 1778 rpm Noise level² : 64.0 dB(A) Slip : 1.22 % Starting method : Direct On Line Rated torque : 8.16 kgfm Approx. weight³ : 157 kg Locked rotor torque : 300 % Breakdown torque : 330 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.1214 kgm² Design Output 50% 75% 100% Foundation loads 91.7 Efficiency (%) 91.0 93.0 Max. traction : 345 kgf **Power Factor** 0.62 0.74 0.81 : 502 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) 7.2 5.5 4.9 4.2 2.0 1.3 2.7 Drive end Non drive end Bearing type 6309 C3 6209 C3 V'Ring V'Ring Sealing Lubrication interval 20000 h 20000 h Lubricant amount 13 g 9 g 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

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Revision

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



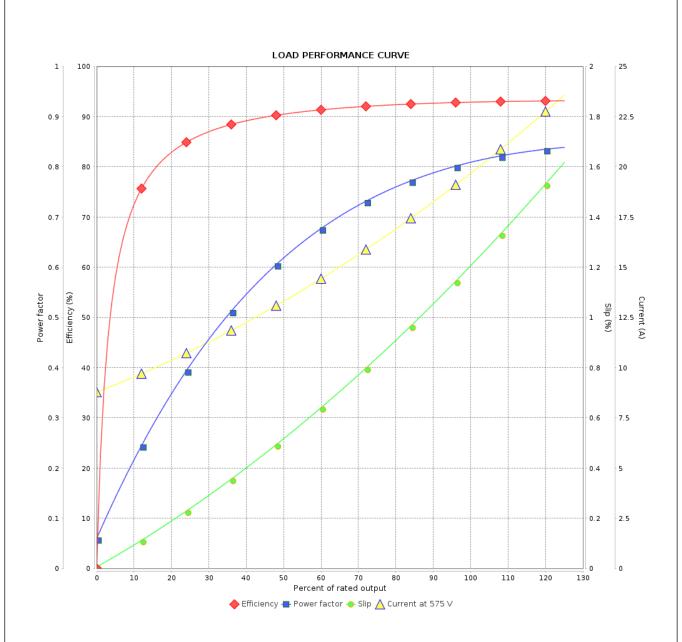
Customer :

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Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12082757



Performance	: 5	575 V 60 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		20.0 A 8.3 8.16 kgfm 300 % 330 % 1778 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1214 kgm ² : S1 : F : 1.25 : 80 K : N	: S1 : F : 1.25 : 80 K	
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Revision

