DATA SHEET

Checked by

Date

31/10/2025

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Brake Motor NEMA Premium Product code: 14016376 Efficiency Three-Phase : 182/4TC Locked rotor time Frame : 41s (cold) 23s (hot) Output : 3 HP (2.2 kW) Temperature rise : 80 K Poles : 4 Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C : 1000 m.a.s.l. Rated voltage : 575 V Altitude Rated current : 3.21 A Protection degree : IP55 : IC411 - TEFC L. R. Amperes : 26.3 A Cooling method LRC : F-1 : 8.2x(Code K) Mounting No load current : 1.60 A Rotation¹ : Both (CW and CCW) Rated speed : 1765 rpm Noise level² : 56.0 dB(A) Slip : 1.94 % Starting method : Direct On Line Rated torque : 1.23 kgfm Approx. weight³ : 53.8 kg Locked rotor torque : 220 % Breakdown torque : 320 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.0143 kgm² Design : B 50% 75% Output 100% Foundation loads Efficiency (%) 87.5 88.5 89.5 Max. traction : 56 kgf : 109 kgf Power Factor 0.58 0.69 0.77 Max. compression Losses at normative operating points (speed;torque), in percentage of rated output power P2 (0,5;1,0) P4 (0,9;0,5) P1 (0,9;1,0) P3 (0,25;1,0) P5 (0,5;0,5) P6 (0,5;0,25) P7 (0,25;0,25) 12.7 11.2 10.8 6.7 5.0 3.7 2.8 Drive end Non drive end Bearing type 6207 ZZ 6206 ZZ V'Ring Lip Seal Sealing Lubrication interval Lubricant amount Lubricant type 88000 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. Checked Rev. **Changes Summary** Performed Date Performed by

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DATA SHEET



Three Pha	se Induction	<u> </u>									
Customer :											
Voltage: 525-575 Brake Torque: 6.	5 V 12 kgfm	Brake informa	ation								
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Date

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

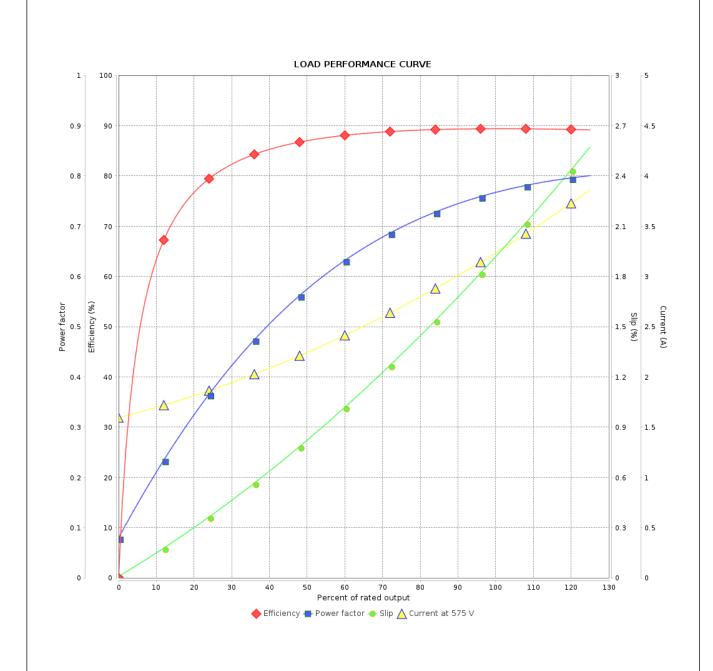
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Product line : W22 Brake Motor NEMA Premium Product code : 14016376

Efficiency Three-Phase



			,		,		
Performance		: 575 V 60 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 3.21 A : 8.2 : 1.23 kgfm : 220 % : 320 % : 1765 rpm	Duty cyc Insulatio Service t	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0143 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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