DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : Multimounting IE3 Three-Phase Product code: 13971582 : 80 Cooling method : IC411 - TEFC Frame Mounting Insulation class : F : B3L(E) Duty cycle : S1 Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Altitude : 1000 m.a.s.l. Approx. weight³ : 12.6 kg : 0.0015 kgm² Moment of inertia (J) Protection degree : IP55 : N Design Output [HP] 1.5 1.5 1.5 Poles 2 2 2 Frequency [Hz] 50 50 60 Rated voltage [V] 380 415 230/460 Rated current [A] 2.42 2.38 4.16/2.08 L. R. Amperes [A] 17.9 19.0 38.7/19.3 LRC [A] 7.4 8.0 9.3 No load current [A] 1.10 2.20/1.10 1.30 Rated speed [RPM] 2820 2855 3465 Slip [%] 3.75 6.00 4.83 Rated torque [kgfm] 0.386 0.381 0.314 Locked rotor torque [%] 340 409 480 Breakdown torque [%] 400 470 330 Service factor 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K Locked rotor time 41s (cold) 23s (hot) 37s (cold) 21s (hot) 39s (cold) 22s (hot) Noise level² 59.0 dB(A) 59.0 dB(A) 62.0 dB(A) 25% 82.0 79.2 76.1 50% 82.0 0.08 78.5 Efficiency (%) 75% 83.7 83.0 81.5 83.4 100% 83.1 84.0 25% 0.41 0.33 0.36 50% 0.66 0.56 0.60 Power Factor 75% 0.77 0.68 0.71 100% 0.83 0.77 0.79 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 18.4 18.0 17.3 P2 (0,5;1,0) 13.4 13.1 12.5 P3 (0,25;1,0) 12.4 12.1 11.6 Losses (%) P4 (0,9;0,5) 11.6 11.4 10.9 P5 (0,5;0,5) 6.5 6.4 6.1 P6 (0,5;0,25) 5.0 4.9 4.7 P7 (0,25;0,25) 3.0 2.9 Drive end Non drive end Foundation loads Bearing type 6204 ZZ 6203 ZZ : 40 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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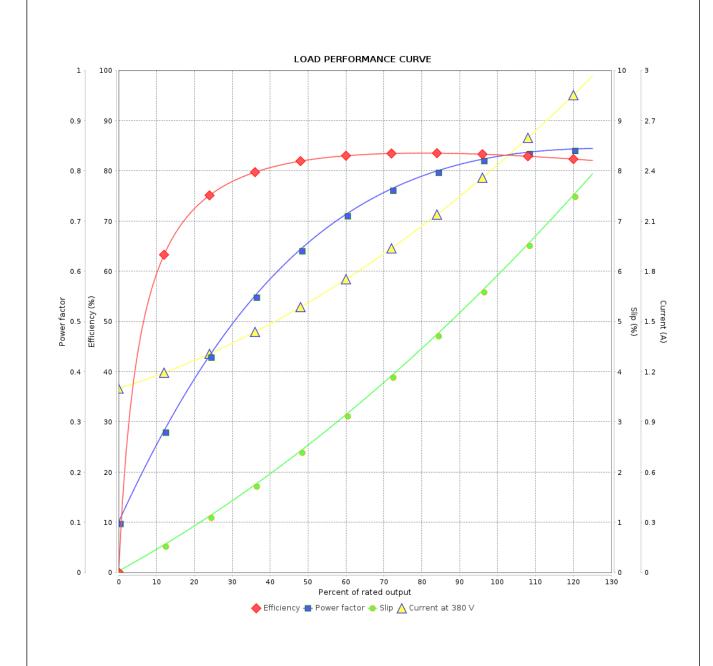
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase Product code : 13971582



Performance	: 38	80 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 7. : 0. ue : 34 e : 33	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0015 kgm² : S1 : F : 1.25 : 80 K : N		
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Three Phase Induction Motor - Squirrel Cage



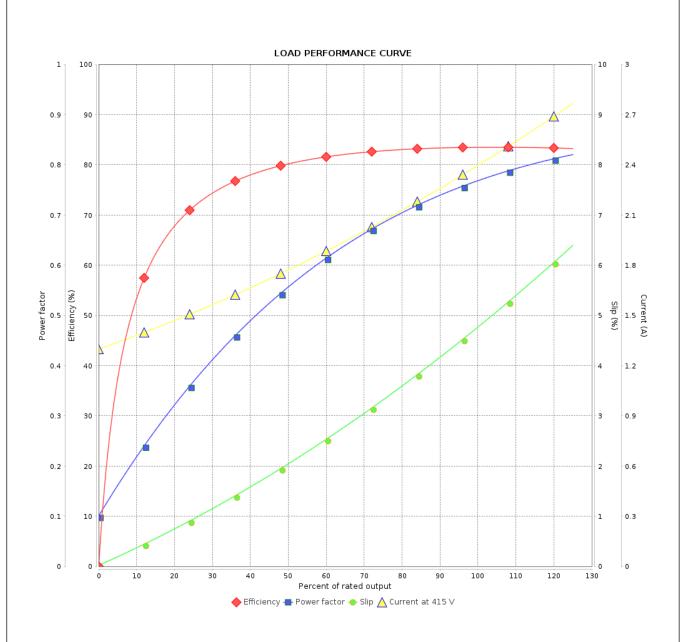
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Product line : Multimounting IE3 Three-Phase Product code : 13971582



Performance	:	415 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : :	2.38 A 8.0 0.381 kgfm 409 % 400 % 2855 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0015 kgm² : S1 : F : 1.25 : 80 K : N	
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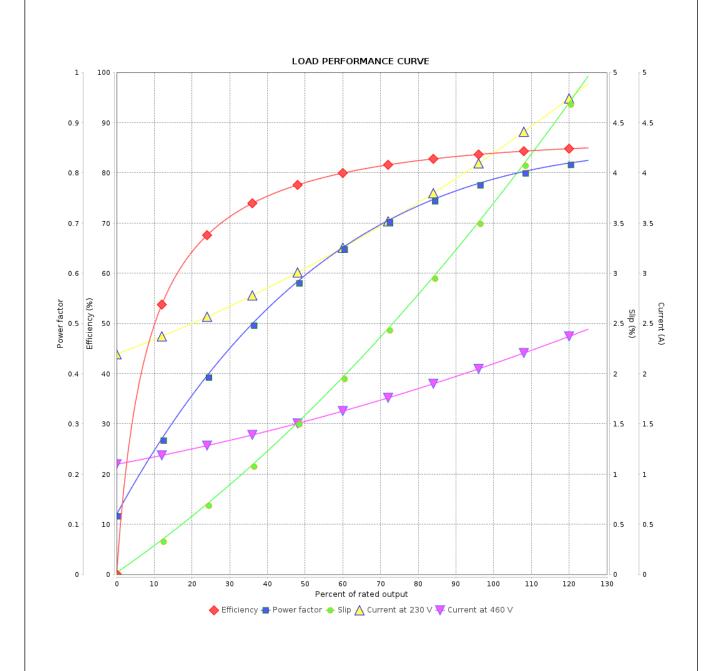
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase Product code : 13971582



Performance	: 23	30/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque		.16/2.08 A Moment of inertial .3 Duty cycle .314 kgfm Insulation class 80 % Service factor		e class actor	: 0.0015 kgm² : S1 : F : 1.25 : 80 K	
		70 % 465 rpm	Design	Temperature rise Design		
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