DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11432051 Efficiency Three-Phase Frame Cooling method : IC411 - TEFC : 213/5T Insulation class Mounting : F-1 : F Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight³ : 81.5 kg Altitude Protection degree : IP56 Moment of inertia (J) : 0.0620 kgm² Design : B Output [HP] 5 5 5 5 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 6.83 8.20 7.82 7.65 L. R. Amperes [A] 47.7 46.4 45.1 49.7 LRC [A] 6.8x(Code J) 5.5x(Code G) 6.1x(Code H) 6.5x(Code J) 3.45 No load current [A] 3.41 3.68 3.90 Rated speed [RPM] 1170 960 965 970 Slip [%] 2.50 4.00 3.50 3.00 Rated torque [kgfm] 3.10 3.78 3.76 3.74 Locked rotor torque [%] 170 150 160 190 Breakdown torque [%] 260 215 220 250 Service factor 1.25 1.00 1.00 1.00 80 K Temperature rise 80 K 80 K 80 K 102s (cold) 57s (hot) 54s (cold) 30s (hot) Locked rotor time 54s (cold) 30s (hot) 54s (cold) 30s (hot) Noise level² 55.0 dB(A) 53.0 dB(A) 53.0 dB(A) 53.0 dB(A) 25% 50% 88.5 88.5 88.5 87.5 Efficiency (%) 75% 89.5 88.5 88.5 88.5 100% 89.5 86.8 87.5 88.5 25% 50% 0.58 0.65 0.61 0.58 Power Factor 75% 0.70 0.75 0.73 0.71 0.76 0.79 0.78 0.76 100% Losses at normative operating points (speed;torque), in percentage of rated output power 12.3 P1 (0,9;1,0) 13.5 11.1 14.4 P2 (0,5;1,0) 9.1 11.1 10.1 11.8 P3 (0,25;1,0) 8.8 9.8 11.4 10.8 P4 (0,9;0,5) 7.1 6.4 Losses (%) 5.8 7.5 P5 (0,5;0,5) 4.5 4.0 5.2 4.9 P6 (0,5;0,25) 2.9 3.7 3.5 3.2 P7 (0,25;0,25) 2.1 2.7 2.6 2.3 Non drive end Foundation loads Drive end Bearing type 6308 C3 6207 C3 Max. traction : 132 kgf Sealing Inpro/Seal Inpro/Seal Max. compression : 214 kgf 20000 h 20000 h Lubrication interval Lubricant amount 11 q 7 g Mobil Polyrex EM Lubricant type 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 MG-1. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision

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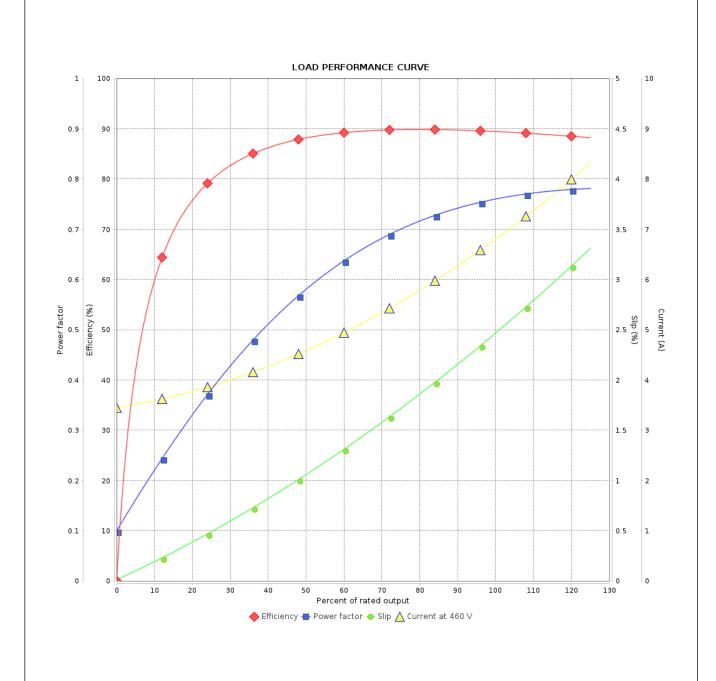
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11432051

Efficiency Three-Phase



Rated current LRC	: 6.83 A : 6.8	Moment of inertia (J) Duty cycle		: 0.0620 kgm² : Cont.(S1)	
Rated torque	: 3.10 kgfm	Insulation class		: F	
Locked rotor torque	: 170 %	Service factor		: 1.25	
Breakdown torque	: 260 %	Temperature rise		: 80 K	
Rated speed	: 1170 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



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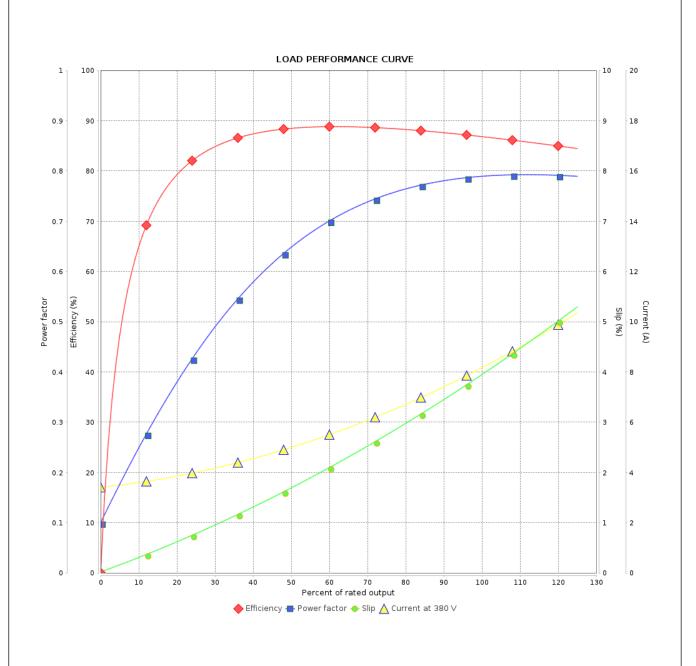
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Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11432051



: 38	80 V 50 Hz 6P IE3				
: 5. : 3. jue : 18 ie : 2'	.5 .78 kgfm 50 % 15 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0620 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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	: 8 : 5 : 3 jue : 1 ie : 2	ie : 215 % : 960 rpm	: 8.20 A : 5.5 : 3.78 kgfm : 150 % : 215 % : 960 rpm Moment o Duty cycle Insulation Service fa Temperatu Design	: 8.20 A : 5.5 : 3.78 kgfm Jue : 150 % Insulation class Service factor Temperature rise Service factor Temperature rise Design	: 8.20 A Moment of inertia (J) : 0.0620 kgm² : 5.5 Duty cycle : Cont.(S1) : 3.78 kgfm Insulation class : F que : 150 % Service factor : 1.00 ie : 215 % Temperature rise : 80 K : 960 rpm Design : B

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Three Phase Induction Motor - Squirrel Cage



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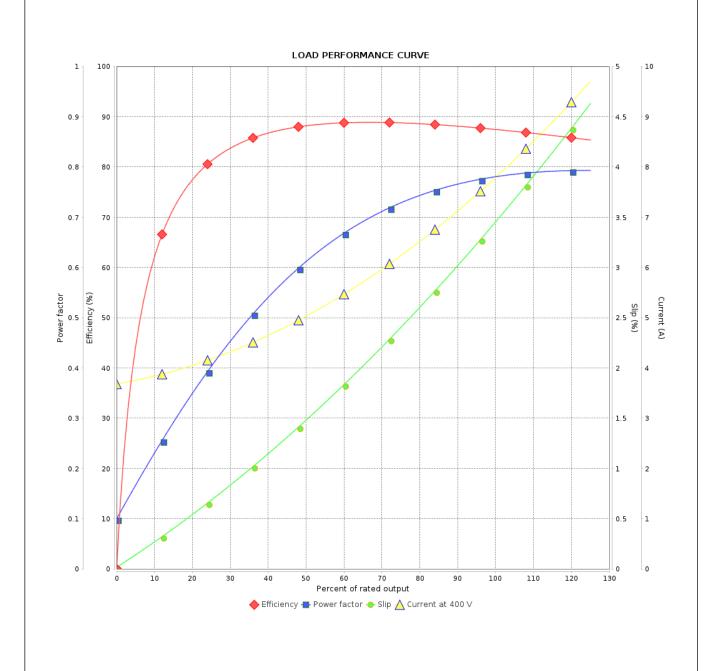
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Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11432051



Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.82 A : 6.1 : 3.76 kgfm : 160 % : 220 % : 965 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0620 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage

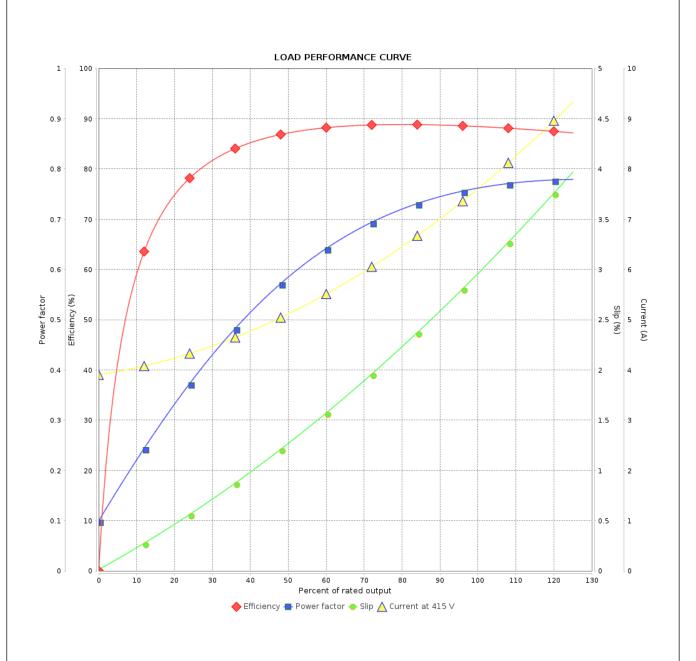


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Performance	: 4	415 V 50 Hz 6P IE3					
Rated current		7.65 A	Moment of inertia (J)		: 0.0620 kgm²		
LRC :		6.5	Duty cycle	Duty cycle			
Rated torque		3.74 kgfm	Insulation	Insulation class			
•		190 %	Service fa	Service factor		: 1.00	
Breakdown torque		250 %	Temperat	Temperature rise		: 80 K	
Rated speed	: 9	970 rpm	Design		: B		
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