DATA SHEET

Checked by

Date

30/10/2024

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 12385056 Efficiency Three-Phase Frame : 254/6TC Cooling method : IC411 - TEFC 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 Altitude : 136 kg Protection degree : IP56 Moment of inertia (J) : 0.1652 kgm² Design : B Output [HP] 7.5 7.5 7.5 7.5 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 9.48 11.4 10.8 10.5 L. R. Amperes [A] 63.5 58.1 61.6 64.0 LRC [A] 6.7x(Code H) 5.1x(Code F) 5.7x(Code G) 6.1x(Code H) No load current [A] 4.50 4.50 4.75 4.95 Rated speed [RPM] 1175 970 970 975 Slip [%] 2.08 3.00 3.00 2.50 4.62 Rated torque [kgfm] 5.61 5.61 5.58 Locked rotor torque [%] 240 160 190 210 Breakdown torque [%] 290 210 229 250 Service factor 1.25 1.00 1.15 1.15 80 K Temperature rise 80 K 105 K 105 K Locked rotor time 54s (cold) 30s (hot) 48s (cold) 27s (hot) 48s (cold) 27s (hot) 48s (cold) 27s (hot) Noise level² 59.0 dB(A) 57.0 dB(A) 57.0 dB(A) 57.0 dB(A) 25% 50% 89.5 89.5 89.5 89.5 Efficiency (%) 75% 90.2 89.5 89.5 89.5 100% 91.0 88.5 89.5 90.2 25% 50% 0.63 0.70 0.66 0.64 Power Factor 75% 0.74 0.79 0.77 0.75 0.80 0.83 0.82 0.81 100% Losses at normative operating points (speed;torque), in percentage of rated output power 12.0 P1 (0,9;1,0) 13.0 10.9 14.5 P2 (0,5;1,0) 9.4 11.5 10.5 13.0 P3 (0,25;1,0) 10.0 8.9 12.4 11.0 P4 (0,9;0,5) 7.2 6.1 Losses (%) 5.6 6.5 P5 (0,5;0,5) 4.4 4.0 5.4 4.8 P6 (0,5;0,25) 2.9 3.8 3.4 3.2 P7 (0,25;0,25) 2.0 2.9 2.5 2.3 Non drive end Foundation loads Drive end Bearing type 6309 C3 6209 C3 Max. traction : 151 kgf Sealing Inpro/Seal Inpro/Seal Max. compression : 288 kgf 20000 h Lubrication interval 20000 h Lubricant amount 13 g 9 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

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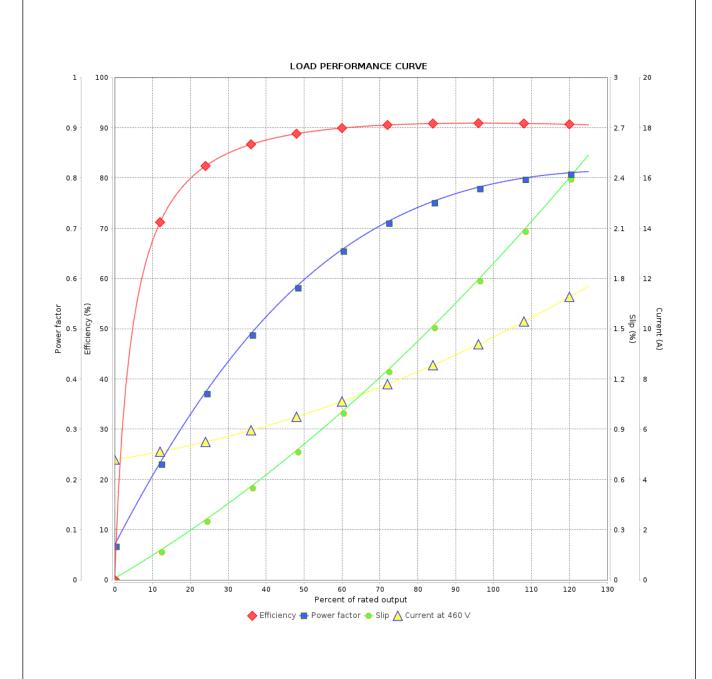
12385056

Customer :

Performed by

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 460 V 60 Hz 6P					
Rated current	: 9.48 A	Moment of inertia (J)		: 0.1652 kgm²		
LRC	: 6.7	Duty cycle		: Cont.(S1)		
Rated torque	: 4.62 kgfm	Insulation class		: F		
Locked rotor torque	: 240 %	Service factor		: 1.25		
Breakdown torque	: 290 %	Temperature rise		: 80 K		
Rated speed	: 1175 rpm	Design		: B		
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Three Phase Induction Motor - Squirrel Cage

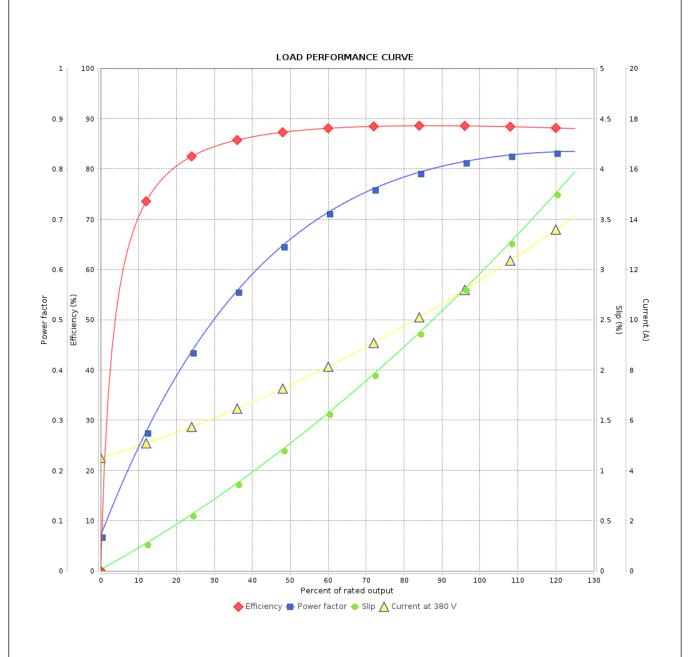


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12385056



Performance	: 380 V 50 Hz 6P IE3						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 11.4 A : 5.1 : 5.61 kgfm : 160 % : 210 % : 970 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1652 kgm² : Cont.(S1) : F : 1.00 : 105 K : B			
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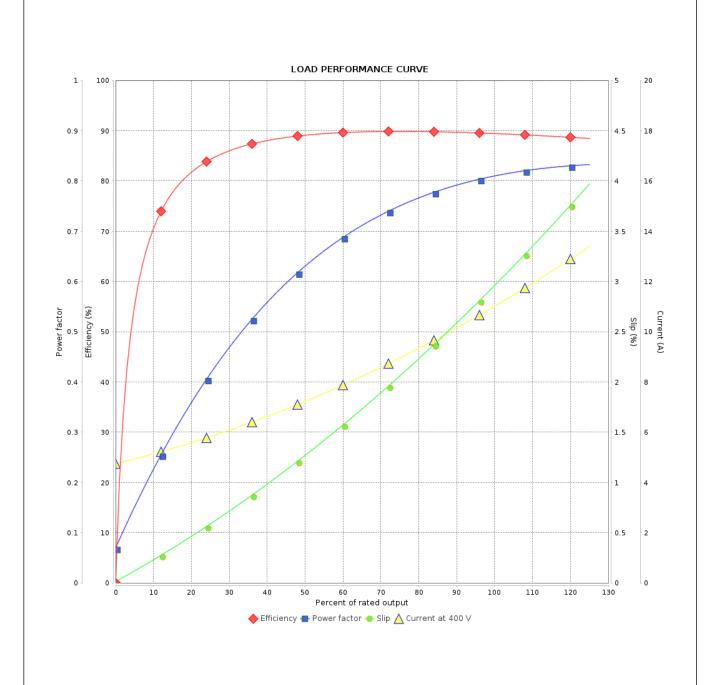
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Product line : W22 IEEE 841 NEMA Premium Product code:

Efficiency Three-Phase



Performance : 400 V 50 Hz 6P IE3						
Rated current	: 10.	8 A	Moment of inertia (J)		: 0.1652 kgm²	
LRC	: 5.7		Duty cycle		: Cont.(S1)	
Rated torque	: 5.6	1 kgfm	Insulation class		: F	
Locked rotor tord	jue : 190) %	Service factor		: 1.15	
Breakdown torqu	ie : 229	9 %	Temperature rise		: 105 K	
Rated speed	: 970	: 970 rpm		Design		
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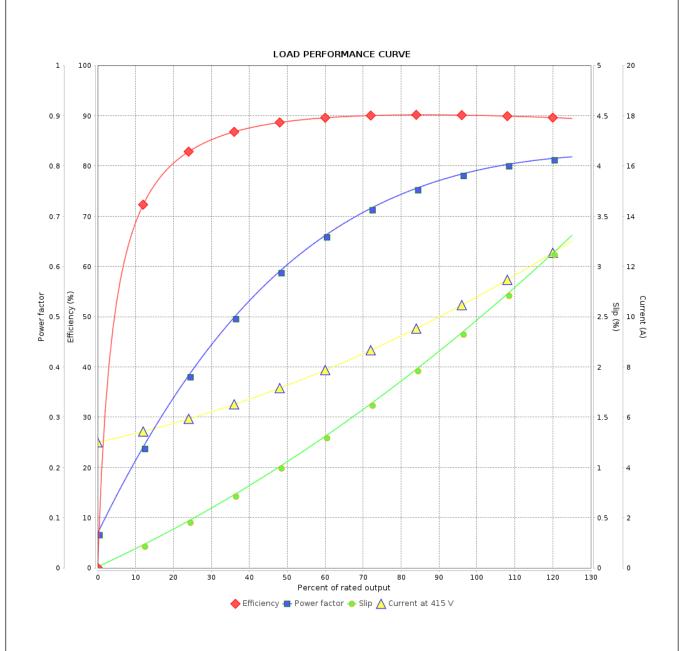


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12385056



: 415 V 50 Hz 6P IE3 : 10.5 A : 6.1 : 5.58 kgfm	Moment o	f inertia (J)	: 0.1652 kgm²	
: 6.1		` '	: 0.1652 kgm²	
: 210 % : 250 % : 975 rpm	Insulation Service fa Temperate Design	class ctor	: Cont.(S1) : F : 1.15 : 80 K : B	
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	: 975 rpm	: 975 rpm Design	: 975 rpm Design	: 975 rpm Design : B

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